Public Services and Procurement Canada

Requisition No.: _____

Buy and Sell ID No.: _____

Specifications for

Site Remediation

Fireside Maintenance Camp, KM 839, Alaska Highway, BC

Project No. R.018388.006/007 Date

APPROVED BY:

_____ _____
Regional Manager ES Date

_____ _____
Construction Safety Coordinator Date

TENDER:

_____ _____
Project Manager Date

Real Property Services Branch, Professional and Technical Services, Pacific Region
#219 – 800 Burrard Street, Vancouver, B.C. V6Z 0B9

Division No.	Division Title	Page
01 11 00	Summary of Work	4
01 11 55	General Instructions	15
01 31 19	Project Meetings	20
01 32 16.07	Construction Progress	23
01 33 00	Submittal Procedures	25
01 35 00.06	Special Procedures for Traffic Control	29
01 35 13.43	Special Project Procedures for Contaminated Sites	31
01 35 29.14	Health and Safety for Contaminated Sites	43
01 35 43	Environmental Procedures	53
01 41 00	Regulatory Requirements	66
01 45 00	Quality Control	68
01 52 00	Construction Facilities	71
01 61 10	Product Requirements	77
01 71 00	Examination and Preparation	81
01 74 19	Waste Management and Disposal	84
01 78 00	Closeout Submittals	88
02 61 00.02	Soil Remediation General Construction	90
31 23 33.01	Excavating, Trenching and Backfilling	95

Drawing No.	Drawing Title
636200-301	Fireside Maintenance Camp Site Location
636200-302	Site Plan and Infrastructure Restrictions
636200-303A	Contaminated Materials Extents – AEC 1
636200-303B	Contaminated Materials Extents – AEC 2
636200-303C	Contaminated Materials Extents – AEC 3 and 6
636200-304A	Geological Cross Section A-A'
636200-304B	Geological Cross Section B-B'
636200-305	Sloping / Shoring Requirements
636200-306	JJJ STF Site Location
636200-307	Site Plan – JJJ Gravel Pit
636200-308	Site Restoration

PROFESSIONAL PROVINCE OF M. A. GUEST #27300 BRITISH COLUMBIA ENGINEER

May 25, 18

Appendix No.	Appendix Title
A	Environmental Investigations - Draft FY 2017/2018 Remedial Excavation, Fireside Maintenance Camp, Alaska Highway, BC – PSPC Project # R.018388.006/007, dated March 26, 2018
B	Coverall Building Specifications - Disassembly and Re-Erection of an Existing Arched Fabric Structure at the Fireside Maintenance Camp at Km 839 on the Alaska Highway, British Columbia, dated December 15, 2017 (Scouten Engineering)

PROFESSIONAL
PROVINCE OF
M. A. QUEST
#37338
BRITISH COLUMBIA
ENGINEER

May 25/18

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Pre-mobilization Submittals will be paid in accordance with lump sum price established for all Preconstruction Meetings, final design, planning, health and safety, and other Submittals in accordance with the Contract or required and accepted by the Departmental Representative as in accordance with the Contract prior to mobilization to Site.

1.1.2. Mobilization will be paid in accordance with lump sum price established for mobilizing all necessary equipment, materials, supplies, facilities, and personnel associated with the Works to the Site. Includes initial insurance, bonding, and permits. Additional insurance, bonding, and permits due to changes in scope, cost, and schedule as accepted by the Departmental Representative will be included in Contract amendments.

1.1.3. Site Preparation will be paid in accordance with lump sum price established to prepare the Site for planned construction works. Includes clearing and grubbing, temporary removal of existing infrastructure, utility location, rerouting, and protection, and construction of temporary onsite access roads. Also includes removal of any incidental or generated material. Also includes Preconstruction Precondition Survey and Preconstruction As-Built Documents. Does not include dis-assembly of Coverall Building.

1.1.4. Site Facilities Provision will be paid in accordance with lump sum price established to design, temporarily provide for duration of Work, and erect all infrastructure in accordance with the Contract. Includes temporary structures and facilities including those for on-site accommodation, screening plant, temporary hoarding, security fencing, federal signage, sanitary facilities, stormwater management infrastructure, and utility installation. Site facilities to include separate trailer for living accommodations of up to 3 Departmental representatives for the duration of the project as well as office work space.

1.1.5. Site Facilities Operation will be paid in accordance with unit rate price established for time to operate and maintain all Contract infrastructure between mobilization and demobilization. Measurement as recorded time by Departmental Representative. Includes temporary structures and facilities including temporary hoarding, screening plant, security fencing, federal signage, sanitary facilities, on-site accommodation operation, stormwater management infrastructure, and utility installation. Also includes ongoing services including project management, security, surveying, noise monitoring, vibration monitoring, utilities, project meetings, inspections, progress Submittals, traffic control, health and safety, Environmental Protection and cleaning. Also, includes living out allowances, travel and room and board. Rate must not vary even if hours of work and/or days of work vary. Time will only be paid for duration in accordance with the Contract and changes in schedule as accepted by the Departmental Representative and included in Extension of Time on Contracts.

1.1.6. Temporary Sloping/Shoring and Overburden Removal - will be paid in accordance with unit rate price established for in-situ volume of uncontaminated overburden material to be removed to provide temporary sloping and/or shoring required to excavate contaminated material to extents shown on Drawings. Measurement as recorded in-situ volume of uncontaminated material excavation limits as surveyed by Departmental Representative.

1.1.7. Excavation will be paid in accordance with unit rate price to excavate contaminated material to extents shown on Drawings. Measurement as recorded in-situ volume of contaminated material excavation limits as surveyed by Departmental Representative. Includes handling, transport, and stockpiling onsite. If required, in-situ volume to tonne conversion factor will be 1.95 tonnes/m^3. Does not include non-contaminated overburden material excavated for temporary sloping and shoring.

1.1.8. Excavated Material Screening Operation will be paid in accordance with unit rate price established for in-situ volume of material removed from excavation and screened prior to placement into Owner Soil Treatment Facility. Measurement as recorded in-situ volume of excavated contaminated material by Departmental Representative. Includes stockpiling within work area as instructed by Departmental Representative. Provision of screening plant to be included in Site Facilities Provision. If required, volume to tonne conversion factor will be 1.95 tonnes/m^3.

1.1.9. Standby Time will be paid in accordance with the unit rate price established, for time when Work is unable to proceed, and that is directly attributable to any neglect or delay that occurs after the date of the Contract on the part of the Departmental Representative in providing any information or in doing any act that the Contract expressly requires of the Departmental Representative. Includes machinery and labour standby costs. Does not include items covered by Site Facilities Operation. Standby Time may be pro-rated based on hours of work. Make all efforts to minimize impacts due to delays caused by the Departmental Representative, including re-sequencing Work. Provide documentation of a sufficient description of the facts and circumstances of the occurrence to enable the Departmental Representative to determine whether or not the Standby Time is justified. Reviews, sampling, or other work conducted by the Departmental Representative with time allowances in accordance with the Contract will result in no increase to the Contract Amount nor Extension of Time for completion of the Work.

1.1.10. Waste Oversize Debris Removal will be paid in accordance with unit rate price established for time to remove oversize material from excavation. Measurement as recorded time by Departmental Representative. Does not include Transport or Disposal.

1.1.11. Backfill-Owner Supplied will be paid in accordance with unit rate price established per volume for backfill material supplied by PSPC from the JJJ Pit. Measurement as recorded in-situ volume of excavation backfilled as surveyed by Departmental Representative. Includes transport, placing and grading as

specified on Drawings. If required, volume to tonne conversion factor will be 1.95 tonnes/m^3.

1.1.12. Contaminated Material Transport-Offsite will be paid in accordance with unit rate price established for weight of material transported. Measurement as recorded on Treatment Facility or Disposal Facility weigh scale certified by Measurement Canada and results provided to Departmental Representative. Includes loading, hauling, interim storage, and handling for all material transported from Site. If material is taken to a Treatment Facility-Offsite before a Disposal Facility, payment includes transport and handling to both Treatment Facility and Disposal Facility.

1.1.13. Contaminated Material Transport-Owner Soil Treatment Facility located at JJJ Pit will be paid in accordance with unit rate price established for in-situ volume of material transported. Includes handling, stockpiling, loading, unloading, hauling, and interim storage for all material transported to Owner Soil Treatment Facility. If required, volume to tonne conversion factor will be 1.95 tonnes/m^3.

1.1.14. Non-Contaminated Material and Waste Transport will be paid in accordance with unit rate price established for weight of material removed offsite. Includes uncontaminated facility debris, including but not limited to concrete and metal debris. Measurement as recorded on Landfill weigh scale certified by Measurement Canada and results provided to Departmental Representative. Includes loading, hauling, interim storage, and handling for all material transported from Site.

1.1.15. Contaminated Material Disposal will be paid in accordance with unit rate price established for weight of material treated and/or disposed offsite. Measurement as recorded on Disposal Facility weigh scale certified by Measurement Canada and results provided to Departmental Representative on Certificates of Disposal. Contaminated Material Disposal includes Contaminated Material Treatment-Offsite, as required by Disposal Facility.

1.1.16. Non-Contaminated Material and Waste Disposal will be paid in accordance with unit rate price established for weight of material disposed offsite. Does not include materials recycled at no cost. Measurement as recorded on Landfill facility weigh scale certified by Measurement Canada and results provided to Departmental Representative on Certificates of Disposal.

1.1.17. Compaction of all excavation areas (including previous excavations) will be paid in accordance with the lump sum price established to complete compaction requirements and testing as specified on Drawings. This includes both new excavations as well as excavation completed in last 2 fiscal years per Drawings.

1.1.18. Site Restoration will be paid in accordance with the lump sum price established to restore the Site to make suitable for post-Work use as shown on Drawings. Includes re-establishment of pre-existing infrastructure and deconstructing and removal from Site all temporary facilities and removal of any incidental or generated material. Does not include re-assembly of Coverall Building.

1.1.19. Coverall Building Dis-Assembly / Re-Assembly will be paid in accordance with lump sum price established to dis-assemble the structure to allow excavation followed by re-assembly as specified in Appendix B. Includes any ground preparation necessary to allow re-assembly to occur.

1.1.20. Demobilization will be paid in accordance with lump sum price established for demobilizing all equipment and personnel associated with the Works from the Site. Includes decontaminating all equipment prior to removal from Site.

1.1.21. Closeout submittals will be paid in accordance with lump sum price established for Final Site Inspection (for Certificate of Completion purposes), Closeout Meetings, provision of final as-built documents and completion documents as instructed by the Departmental Representative.

1.2. Definitions

1.2.1. Certificate of Completion: see General Conditions.

1.2.2. Change Order: PSPC form issued by the Departmental Representative to the Contractor as per the relevant Contemplated Change Notice.

1.2.3. Confirmation Samples: soil samples collected from the base and walls of the excavation by the Departmental Representative to confirm that the remedial objectives for the Work have been met.

1.2.4. Contaminated Material: soil and other material where substances occur at concentrations that: (i) are above background levels and pose, or are likely to pose, an immediate or long-term hazard to human health or the environment, or (ii) exceed the levels specified in policies and regulations. Includes Hazardous Waste and Waste Quality; does not include Non-Contaminated Material or Waste. Relevant regulations, unless otherwise in accordance with the Contract or as instructed by the Departmental Representative, include:

1.2.4.1. For all sites: Canadian Council of Ministers of the Environment (CCME) *Canadian Environmental Quality Guidelines* and CCME *Canada-Wide Standards*.

1.2.4.2. For sites in BC: BC *Hazardous Waste Regulations*, BC *Approved Water Quality Guidelines*, BC *Contaminated Sites Regulation* as directed by the Departmental Representative.

1.2.5. Contaminated Water: liquid material where substances occur at concentrations that: (i) are above background levels and pose, or are likely to pose, an immediate or long-term hazard to human health or the environment, or (ii) meet or exceed the levels specified in policies and regulations. Includes Hazardous Waste and Waste Quality Water; does not include Non-Contaminated Water or Sewage Wastewater. Relevant regulations, unless otherwise in accordance with the Contract or as instructed by the Departmental Representative, include:

1.2.5.1. For all sites: Canadian Council of Ministers of the Environment (CCME) *Canadian Environmental Quality Guideline*s and CCME *Canada-Wide Standards*.

1.2.5.2. For sites in BC: BC *Hazardous Waste Regulations*, BC *Approved Water Quality Guidelines* as directed by the Departmental Representative.

1.2.6. Contaminated Water Treatment Plant: a temporary onsite or existing offsite facility located in Canada that is designed, constructed and operated for the handling or processing of Contaminated Water in such a manner as to change the physical, chemical or biological character or composition of the water to lower than the site-specific remedial objective, Discharge Approval, and in compliance with all regulations.
1.2.7. Contemplated Change Notice: PSPC form issued by the Departmental Representative to the Contractor requesting Contractor to provide a quote, which may result in a Change Order.
1.2.8. Contract: see General Conditions.
1.2.9. Contract Amount: see General Conditions.
1.2.10. Contractor: see General Conditions.
1.2.11. Departmental Representative: see General Conditions.
1.2.12. Discharge Approval: permit, certificate, approval, or any other form of authorization issued by appropriate federal agency, province, territory, or municipality having jurisdiction and authorizing offsite discharge.
1.2.13. Disposal Facility: a facility specifically used to introduce waste into the environment for the purpose of final burial.
1.2.14. Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade environment aesthetically, culturally and/or historically.
1.2.15. Environmental Protection: prevention, control, mitigation, and restoration of pollution and habitat or environmental disruption during construction. Control of Environmental Pollution and Damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; vibrations; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.
1.2.16. Environmental Protection Plan: plan developed by the Contractor to ensure Environmental Protection and prevent Environmental Pollution and Damage identifying all environmental risks and mitigation measures, including: personnel requirements, emergency contacts, Environmental Protection methods, procedures, and equipment, and emergency response including a Spill Control Plan.
1.2.17. Extension of Time: see General Conditions.
1.2.18. Extension of Time on Contracts: PSPC form requesting an Extension of Time.
1.2.19. Final Completion: see General Conditions.
1.2.20. Hazardous Waste: Contaminated Material which meets the regulatory definition of Hazardous Waste.
1.2.21. Land Surveyor: a person working for the Contractor who is a qualified, registered land surveyor licensed to practice in relevant jurisdiction.
1.2.22. Landfill: an existing offsite facility located in Canada that is designed, constructed and operated to prevent any pollution from being caused by the

facility outside the area of the facility from waste placed in or on land within the facility.

1.2.23. Materials Source Separation Program: consists of a series of ongoing activities to separate reusable and recyclable waste into categories from other types of waste at point of generation.

1.2.24. Non-Contaminated Material: soil and other material which meets the BC *Contaminated Sites Regulation* Schedule 3.1.

1.2.25. Non-Contaminated Water: liquids which are suitable for direct discharge to the environment after removal of sediment, and which is not Contaminated Water or Sewage Wastewater. Includes surface runoff, stormwater, and groundwater which has not come into contact with Contaminated Material.

1.2.26. On Site Instruction: instructions or other communications issued by the Departmental Representative to the Contractor.

1.2.27. On Site Notice: notice or other communication issued by the Contractor to the Departmental Representative.

1.2.28. Overburden: Non-Contaminated Material excavated incidentally that is not Topsoil.

1.2.29. Progress Payment: see General Conditions.

1.2.30. PSPC: Public Services and Procurement Canada. Representative of Canada with control of the Site.

1.2.31. Qualified Professional: a person working for the Contractor who is registered in relevant jurisdiction with his or her appropriate professional association, acts under that professional association's code of ethics, and is subject to disciplinary action by that professional association, and through suitable education, experience, accreditation and knowledge can be reasonably relied on to provide advice within his or her area of expertise. Includes Geotechnical Engineers and Environmental Consultants.

1.2.32. Quote: Contractor’s cost estimate issued to the Departmental Representative as per the relevant Contemplated Change Notice via an On Site Notice.

1.2.33. Remediation by Excavation: complete excavation of Contaminated Material and incidental Non-Contaminated Material to the Site boundaries for the purpose of remediating the Site to meet numerical standards. Includes full treatment and disposal. Does not include risk assessment or risk management of material onsite. Does not include encapsulation or solidification in place.

1.2.34. Sewage Wastewater: liquid waste which is not suitable for direct discharge to the environment, and which must be either treated offsite or discharged to a sanitary sewer. Includes water from hand basin, shower, personal hygiene facilities, or other liquid waste from sanitary facilities.

1.2.35. Site: area shown on Drawings.

1.2.36. Subcontractor: see General Conditions.

1.2.37. Submit/Submittals: documents from the Contractor to the Departmental Representative as: required by Contract; stipulated in permit, certificate, approval, or any other form of authorization; by convention or industry practice.

Submittals are final only after review and accepted in writing by Departmental Representative.

1.2.38. Substantial Performance: see General Conditions.

1.2.39. Superintendent: see General Conditions

1.2.40. Supplier: see General Conditions.

1.2.41. Topsoil: non-contaminated soil excavated incidentally that is a surface organic layer to facilitate vegetation growth.

1.2.42. Treatment Facility: a facility specifically used to treat Contaminated Material. May be Onsite (PSPC provided) or Offsite (Contractor provided). Onsite facility is located on property under PSPC control, but may be located at a different location than where excavation work occurs.

1.2.43. Waste: Non-Contaminated Material that is not soil. Includes cleared and grubbed vegetation, litter, rubbish, debris, cobbles, boulders, excess construction material, lumber, steel, plastic, concrete, and asphalt.

1.2.44. Waste Oversize Debris: Waste that is required to be excavated and is: larger than 1 cubic metre or larger than 2 metres in one dimension, cannot be removed with a typical excavator with bucket, and requires the use of special equipment (e.g., saws, hydraulic cutters, excavator hammers, vibratory pile extractors). Includes bedrock, boulders, pilings, building structures, and concrete foundations.

1.2.45. Waste Quality: soil or other material that is not suitable for industrial, commercial, urban park, high and low density residential, agricultural, reverted and natural wildlands or any other land use specified in the BC *Contaminated Sites Regulation*.

1.2.46. Waste Reduction Plan: a written report which addresses opportunities for reduction, reuse or recycling of materials.

1.2.47. Work: see General Conditions.

1.2.48. Working Day: see General Conditions.

1.3. Action and Informational Submittals

1.3.1. After hours work: at least 5 Working Days prior to commencing after hours work Submit a schedule showing requested dates, times, and reasons for after hours work. Approval will only be granted for reasons valid in the opinion of the Departmental Representative and if request can be reasonably accommodated by other contracts.

1.4. Work Covered by Contract

1.4.1. Work under the Contract covers remediation of contaminated material by excavation and placement in offsite PSPC owned Soil Treatment Facility (at JJJ pit) and/or offsite disposal. In addition works cover dis-assembly of coverall building prior to excavation followed by preparation and re-assembly of coverall building following remediation.

1.4.2. Work to be performed under the Contract includes, but is not limited to, the following items covered further in the Contract:

1.4.2.1. Prime Contractor for health and safety and environmental protection at Site.

1.4.2.2. All required design activities to complete Work.
1.4.2.3. Pre-mobilization Submittals.
1.4.2.4. Progress Submittals, including cash flow and forecasting.
1.4.2.5. Prepare Site for Work, including clearing site as required and provision of onsite temporary office facilities for Departmental Representative and consultants.
1.4.2.6. Plan excavation, including geotechnical design as required.
1.4.2.7. Design and install temporary shoring support as required to allow excavation to extents as shown on Drawings.
1.4.2.8. Remove and replace existing infrastructure.
1.4.2.9. Excavate Non-Contaminated Material as instructed by the Departmental Representative.
1.4.2.10. Excavate Contaminated Material as instructed by the Departmental Representative.
1.4.2.11. Excavation of Contaminated Material to extents as shown on Drawings with zero percent residual contamination or as instructed by the Departmental Representative at Final Completion.
1.4.2.12. Backfill excavations with clean imported or client supplied fill material.
1.4.2.13. Load and transport Contaminated Material and Non-Contaminated Material to a Treatment Facility as applicable and a Disposal Facility for final disposal, as required. Load and transport Contaminated Material to a owner Soil Treatment Facility.
1.4.2.14. Load and transport Contaminated Material and Non-Contaminated Material to a Disposal Facility as directed by the Dapartmental Representative.
1.4.2.15. Restore Site to pre-existing conditions.
1.4.2.16. As-built and closure Submittals.
1.4.2.17. All ancillary activities required to complete Work.
1.4.3. Green Requirements:
1.4.3.1. Use only environmentally responsible green materials/products with no Volatile Organic Compounds (VOC) emissions or minimum VOC emissions of indoor off-gassing contaminants for improved indoor air quality – subject of acceptance of Submittal of Materials Safety Data Sheet (MSDS) Product Data.
1.4.3.2. Use materials/products containing highest percentage of recycled and recovered materials practicable – consistent with maintaining cost effective satisfactory levels of competition.
1.4.3.3. Adhere to waste reduction requirement for reuse or recycling of waste materials, thus diverting materials from Landfill.
1.4.4. Work not included in the Contract comprises such work and services specifically listed as:
1.4.4.1. Not Used.

1.5. Location

1.5.1. The Site location is shown on Drawings.

1.5.2. There is no civic street address or PIN for the Site.

1.6. Project/Site Conditions

1.6.1. Work at Site will involve contact with contaminated materials, requiring appropriate health and safety and environmental protection procedures.

1.6.2. Complete list of anticipated contaminants and concentration levels on the Site available separately in assessment reports.

1.6.3. Existing condition on the Site is shown on Drawings.

1.7. Other Contracts

1.7.1. Other contracts are currently in progress at Site.

1.7.2. Other contracts are:

1.7.2.1. Environmental and other consultants.

1.7.2.2. Site users as identified in Contract.

1.7.3. Further contracts may be awarded while the Contract is in progress.

1.7.4. Cooperate with other contractors in carrying out their respective works and carry out instructions from Departmental Representative.

1.7.5. Coordinate Work with that of other contractors. If any part of Work under the Contract depends for its proper execution or result upon Work of another contractor, report promptly to Departmental Representative, in writing, any defects which can interfere with proper execution of this Work.

1.8. Products Supplied by the Departmental Representative

1.8.1. Not Used.

1.9. Contractor's Use of Site

1.9.1. Use of Site:

1.9.1.1. For the sole benefit of Canada.

1.9.1.2. Exclusive and only for completion of the execution of Work.

1.9.1.3. Assume responsibility for assigned premises for performance of this Work.

1.9.1.4. Be responsible for coordination of all Work activities onsite, including the Work of other contractors engaged by the Departmental Representative.

1.9.2. There are no pre-existing arrangements for encroachment on the neighbouring properties. Shoring designs accommodating no offsite encroachment, or arrangements for offsite encroachment, are the responsibility of the Contractor.

1.9.3. Perform Work in accordance with Contract. Ensure Work is carried out in accordance with schedule accepted by Departmental Representative.

1.9.4. Do not unreasonably encumber Site with material or equipment.

1.10. Existing Permits

1.10.1. Existing permits are:

1.10.1.1. None

1.11. Schedule Requirements

1.11.1. Work to be initiated: within 5 Working Days of Contract Award.
1.11.2. Pre-Mobilization Submittals: within 5 Working Days of Contract Award.
1.11.3. Final Completion no later than 120 Working Days following mobilization.
1.11.4. Site Works at Maintenance Yard to be completed no later than November 15, 2017.
1.11.5. Completion of Submittals: no later than 30 Working Days following de-mobilization. Includes all final Submittals including as-built documents, the Certificate of Completion, and the Statutory Declaration at Final Completion.

1.12. Hours of Work

1.12.1. Restrictive as follows:
1.12.1.1. Working Day work hours are 07:00 to 19:00.
1.12.2. Obtain consent from Departmental Representative for all after hours Work, including weekends and holidays.
1.12.2.1. Proceed only as instructed by the Departmental Representative.

1.13. Security Clearances

1.13.1. Not Used.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Utility Locations: at least 5 Working Days prior to commencing any subsurface disturbance, Submit drawings identifying all utilities on the Site. Update drawings as instructed by the Departmental Representative.

1.3.2. Breakdown of Lump Sum Prices: at least 5 Working Days prior to submitting the first Progress Payment, Submit a breakdown of the Contract lump sum prices including labour, material and time, in detail as instructed by the Departmental Representative and aggregating Contract Amount.

1.3.3. Daily Work Records: at the end of each shift Submit daily Work records, during onsite Work. Include:

1.3.3.1. Quantities for each Description of Work identified in the Unit Price Table and Change Orders.

1.3.3.2. Description of Work performed.

1.3.3.3. Current Site conditions.

1.3.3.4. General information including: date, time shift started and ended, Subcontractor(s) onsite, Health and Safety items, and Environmental Protection items.

1.3.3.5. Signature of Superintendent and Departmental Representative.

1.3.4. Cash Flow: with each Progress Payment, Submit a cash flow forecast. Include:

1.3.4.1. Calculation of planned cost versus actual cost and schedule forecasting and cash flow projections on a monthly basis, indicating anticipated value of future Progress Payments, for each Description of Work identified in the Unit Price Table.

1.3.4.2. Progress Payments will not be processed until cash flow has been accepted by the Departmental Representative.

1.3.5. Coordination Meeting Minutes and Drawings: at least 5 Working Days prior to relevant Work commencing, Submit final meeting minutes and drawings from coordination with Subcontractors.

1.3.6. Quality Management Plan: within 5 Working Days after Contract award. Submit a quality management plan. Include:

1.3.6.1. Details on planned review, inspection and testing to provide Quality Assurance and Quality Control for the Work.

1.3.6.2. Subcontractors responsible for review, inspection and testing.

1.3.6.3. Schedule of submittals of review, inspection and testing results.

1.3.7. Review, Inspection, and Testing Results: within 5 Working Days of receipt, Submit all results of reviews, inspection, and testing performed as part of the Work, including laboratory reports.

1.4. Division of Specifications

1.4.1. This specification is subdivided into Divisions and Sections in accordance with the six digit National Master Specifications System.

1.4.2. A Division or Section may consist of the Work of more than one Subcontractor. Responsibility for determining which Subcontractor provides the labour, material, equipment and services required to complete the Work rests solely with the Contractor.

1.5. Documents Required

1.5.1. Maintain 1 copy each of the following posted at the job Site:

1.5.1.1. General Conditions.
1.5.1.2. Drawings.
1.5.1.3. Specifications.
1.5.1.4. Addenda or other modifications to Contract.
1.5.1.5. Change orders.
1.5.1.6. Copy of current Work schedule.
1.5.1.7. Reviewed and final shop drawings Submittals.
1.5.1.8. One set of record drawings and Specifications for “as-built” purposes.
1.5.1.9. Field and laboratory test reports.
1.5.1.10. Reviewed and accepted Submittals.
1.5.1.11. Manufacturers’ installation and application instructions (as appropriate).
1.5.1.12. *National Building Code of Canada* (as appropriate).
1.5.1.13. Current construction standards of workmanship listed in technical Sections (as appropriate).
1.5.1.14. Health and Safety documents, including all daily toolbox meetings, Notice of Project, and utility clearances.
1.5.1.15. Environmental Protection Plan.
1.5.1.16. Quality Management Plan.
1.5.1.17. Final Meeting Minutes, Agendas and associated attachments.
1.5.1.18. Permits and other approvals.

1.6. Setting out of Work

1.6.1. Assume full responsibility for and execute complete layout of Work to locations, lines and elevations in accordance with the Contract.

1.6.2. Provide devices needed to layout and construct Work.

1.6.3. Supply such services and devices in accordance with the Contract to facilitate Departmental Representative’s inspection of Work.

1.7. Acceptance of Substrates

1.7.1. Each trade must examine surfaces prepared by others and job conditions which can affect his work, and must report defects to the Departmental Representative. Commencement of Work will imply acceptance of prepared Work or substrate surfaces.

1.8. Works Coordination

1.8.1. Coordinate Work of Subcontractors.

1.8.1.1. Designate one person to be responsible for review of Contract and shop drawings and managing coordination of Work.

1.8.2. Convene meetings between Subcontractors whose Work interfaces and ensure awareness of areas and extent of interface required.

1.8.2.1. Provide each Subcontractor with complete Drawings and Specifications for Contract, to assist them in planning and carrying out their respective work.

1.8.2.2. Develop coordination drawings when required, illustrating potential interference between Work of various trades and distribute to affected parties.

1.8.2.3. Facilitate meeting and review coordination drawings. Ensure Subcontractors agree and sign off on coordination drawings.

1.8.2.4. Publish minutes of each meeting.

1.8.2.5. Submit a copy of coordination drawings and meeting minutes as instructed by the Departmental Representative.

1.8.3. Submit shop drawings and order of prefabricated equipment or rebuilt components only after coordination meeting for such items has taken place.

1.8.4. Work coordination:

1.8.4.1. Ensure cooperation between trades in order to facilitate general progress of Work and avoid situations of spatial interference.

1.8.4.2. Ensure that each trade provides all other trades reasonable opportunity for Final Completion of Work and in such a way as to prevent unnecessary delays, cutting, patching and removal or replacement of completed Work.

1.8.4.3. Ensure disputes between Subcontractors are resolved.

1.8.5. Failure to coordinate Work is responsibility of Contractor.

1.9. Approvals of Shop Drawings, Product Data and Samples

1.9.1. The term "shop drawings" means drawings, figures, diagrams, illustrations, schedules, performance charts, brochures and other data which are Submittals by Contractor to illustrate details of a portion of Work.

1.9.2. Submit as instructed by the Departmental Representative the requested shop drawings, product data, MSDS sheets and samples in accordance with the Contract.

1.9.3. Allow sufficient time for the following:

1.9.3.1. Review of product data.

1.9.3.2. Acceptance of shop drawings.

1.9.3.3. Review of re-submission.

1.9.3.4. Ordering of accepted material and/or products.

1.10. Relics and Antiquities

1.10.1. See General Conditions.

1.11. Additional Drawings

1.11.1. The Departmental Representative may furnish additional Drawings for clarification. These additional Drawings have the same meaning and intent as if they were included with Drawings referred to in the Contract.

1.11.2. Upon request, Departmental Representative may furnish up to a maximum of 2 sets of Drawings for use by the Contractor at no additional cost. Should more than 2 sets of documents be required the Departmental Representative will provide them at additional cost.

1.12. Record Keeping

1.12.1. On Site Notifications: All correspondence from Contractor to the Departmental Representative, including Submittals, Quotes, and Extension Of Time On Contracts, must be as a sequentially numbered On Site Notifications. Include cross references to applicable On Site Instructions. The status of the Contractor, including the function of Prime Contractor, must not change by reason of any On Site Notifications.

1.12.2. On Site Instructions: All correspondence from the Departmental Representative to the Contractor, including Contemplated Change Notices, Change Orders, and Extension of Time on Contracts, will be as sequentially numbered On Site Instructions. Include cross references to applicable On Site Notifications. The status of the Contractor, including the function of Prime Contractor, must not change by reason of any On Site Instructions.

1.12.3. Maintain adequate records to support information provided to Departmental Representative.

1.12.4. Maintain asbestos waste shipment records or other Hazardous Waste Manifests for minimum of 3 years from date of shipment or longer period required by applicable law or regulation.

1.12.5. Maintain bills of ladings for minimum of 300 days from date of shipment or longer period required by applicable law or regulation.

1.13. Change Documents

1.13.1. Change Documents do not relieve Contractor of any obligation.

1.13.2. Change Documents do not change the Contractor's responsibility for sequencing, methods and means.

1.13.3. Change Documents do not change by any reason the status of the Contractor, including the function of Prime Contractor or as supervisor.

1.13.4. Change Documents include:

1.13.4.1. Change Order: There may be an increase to the Contract Amount by reason of any Change Order. No Extension of Time for completion of the Work by reason of any Change Order.

1.13.4.2. Contemplated Change Notice: No increase to the Contract Amount by reason of any Contemplated Change Notice. No Extension of Time for completion of the Work by reason of any Contemplated Change Notice.

1.13.4.3. Extension of Time on Contracts: No increase to the Contract Amount by reason of any Extension of Time on Contracts. There may be an Extension of Time for completion of the Work by reason of an Extension of Time on Contracts.

1.13.4.4. Quote: No increase to the Contract Amount by reason of any Quote. No Extension of Time for completion of the Work by reason of any Quote. The status of the Contractor, including the function of Prime Contractor, must not change by reason of any Quote.

1.14. System of Measurement

1.14.1. The metric system of measurement (SI) will be employed on the Contract.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Preconstruction Meeting Minutes: within 2 Working Days of the Preconstruction Meeting, Submit meeting minutes.

1.3.2. Progress Meeting Minutes: within 2 Working Days of a Progress Meeting, Submit meeting minutes.

1.3.3. Information for Progress Meetings: at least 2 Working Days prior to scheduled Progress Meetings, Submit all information in accordance with the Contract for Progress Meetings. Include:

1.3.3.1. Agenda for the proposed Progress Meeting.

1.3.3.2. Updated Project Schedule.

1.3.3.3. Copies of transport manifests and disposal receipts for all materials removed from Site.

1.3.3.4. Other information as instructed by the Departmental Representative or relevant to agenda for upcoming progress meeting.

1.3.4. Final Site Inspection: within 2 Working Days of the Final Site Inspection, Submit meeting minutes.

1.3.5. Closeout Meetings: within 2 Working Days of the Closeout Meeting, Submit meeting minutes.

1.4. Administrative

1.4.1. Schedule and administer project meetings throughout the progress of the Work weekly and at the call of the Departmental Representative.

1.4.2. Prepare agenda for meetings.

1.4.3. Submit written notice with agenda of each meeting 2 Working Days in advance of meeting date as instructed by the Departmental Representative.

1.4.4. Provide physical space and make arrangements for meetings, or arrange for teleconference meetings, as instructed by Departmental Representative.

1.4.5. Preside at meetings.

1.4.6. Record the meeting minutes. Include significant proceedings and decisions. Identify actions by parties.

1.4.7. Maintain records of meeting minutes for a minimum of 2 years after Work is completed.

1.4.8. Representative of Contractor, Subcontractor(s) and Supplier(s) attending meetings must be qualified and authorized to act on behalf of party each represents.

1.5. Preconstruction Meeting

1.5.1. Within 5 Working Days after award of Contract, request a meeting of parties in Contract to discuss and resolve administrative procedures and responsibilities.

1.5.2. Departmental Representative, Contractor, Superintendent, major Subcontractor(s), field inspectors and supervisors must be in attendance.

1.5.3. Establish time and location of meeting subject to approval by Departmental Representative and notify parties concerned at least 3 Working Days before meeting.

1.5.4. Agenda to include:

1.5.4.1. Appointment of official representative of participants in the Work, including Contractor's Superintendent and Departmental Representative.

1.5.4.2. Schedule of Work.

1.5.4.3. Schedule of Submittals.

1.5.4.4. Requirements for temporary facilities.

1.5.4.5. Site security.

1.5.4.6. Change orders, procedures, approvals required, administrative requirements.

1.5.4.7. Monthly Progress Payments, administrative procedures, hold backs.

1.5.4.8. Appointment of inspection and testing agencies or firms.

1.5.4.9. List of Subcontractor(s).

1.6. Progress Meetings

1.6.1. During course of Work schedule progress meetings weekly subject to approval by Departmental Representative.

1.6.2. Contractor, Superintendent, major Subcontractor(s) involved in Work, and Departmental Representative are to be in attendance.

1.6.3. Agenda to include:

1.6.3.1. Review and acceptance of minutes of previous meeting.

1.6.3.2. Review health and safety, including incidents, near misses, and corrective measures.

1.6.3.3. Review Environmental Protection, including incidents, near misses, and corrective measures.

1.6.3.4. Review contractual compliance.

1.6.3.5. Review regulatory compliance.

1.6.3.6. Review communications, problems or concerns with community.

1.6.3.7. Review of Work progress since previous meeting.

1.6.3.8. Field observations, problems, conflicts.

1.6.3.9. Updated progress schedule detailing activities planned over next 2 week period. Include review of progress with respect to previously established dates for starting and stopping various stages of Work.

1.6.3.10. Problems which impede construction schedule.

1.6.3.11. Corrective measures and procedures to regain projected schedule.

1.6.3.12. Revision to construction schedule.

1.6.3.13. Progress schedule, during succeeding Work period.

1.6.3.14. Review submittal schedules: expedite as required.

1.6.3.15. Maintenance of quality standards.
1.6.3.16. Quantities of material transported, treated, and disposed.
1.6.3.17. Review proposed changes for affect on construction schedule and on Final Completion date.
1.6.3.18. Other business.

1.7. Toolbox Meetings

1.7.1. During the course of the Work, schedule daily toolbox meetings at the start of each Work shift. Multiple meetings are required if the Contractor works multiple shifts within a 24-hour period.
1.7.2. All on Site workers to attend, including Contractor, Superintendent, major Subcontractor(s), and environmental consultants. Departmental Representative may attend.
1.7.3. Agenda to include:
1.7.3.1. Planned Work activities and environmental considerations for that shift.
1.7.3.2. Coordination activities required between Contractor, Subcontractor(s), Departmental Representative, and other contractor(s) including environmental consultant.
1.7.3.3. Health and Safety items.
1.7.3.4. Environmental Protection items.

1.8. Final Site Inspection

1.8.1. Within 5 Working Days of completion of Site Works but prior to Demobilization, request a meeting on Site to review the Site.
1.8.2. Departmental Representative, Contractor, Superintendent, major Subcontractor(s), field inspectors and supervisors must be in attendance.
1.8.3. Establish time and location of meeting subject to approval by Departmental Representative and notify parties concerned at least 3 Working Days before meeting.
1.8.4. Agenda to include:
1.8.4.1. Inspect removal of all temporary equipment, materials, supplies, and facilities.
1.8.4.2. Inspect final surface grades.
1.8.4.3. Inspect final vegetation.
1.8.4.4. Inspect permanent facilities for performance and damage.
1.8.4.5. Document all damage, deficiencies, missing items, and non-conformance.
1.8.5. If required, and in the opinion of the Departmental Representative, perform another Final Site Inspection after resolving all documented damage, deficiencies, missing items, and non-conformance.

1.9. Closeout Meeting

1.9.1. Within 10 Working Days of completion of the Work, request a meeting to review the project.

1.9.2. Departmental Representative, Contractor, Superintendent, major Subcontractor(s), field inspectors and supervisors must be in attendance.

1.9.3. Establish time and location of meeting subject to approval by Departmental Representative and notify parties concerned at least 3 Working Days before meeting.

1.9.4. Agenda to include:

1.9.4.1. Review Certificate of Completion.

1.9.4.2. Review final payment.

1.9.4.3. Identify lessons learned.

1.9.4.4. Perform Contractor Performance Evaluation Report Form.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Schedule: within 5 Working Days after Contract award, Submit a Master Plan.

1.3.2. Schedule of Interruption of Services: at least 5 Working Days prior to any shutdown or closure of active utilities or facilities Submit a schedule identifying type of service and dates of shutdown or closure.

1.3.3. Project Schedule and Updates: with Progress Payment, Submit a Project Schedule updated as appropriate. Progress Payment submission is incomplete without an updated Project Schedule acceptable to Departmental Representative.

1.4. Requirements

1.4.1. Ensure Master Plan and detail Project Schedules are practical and remain within specified Contract duration.

1.4.2. Plan to complete Work in accordance with prescribed milestones and time frame.

1.4.3. Limit activity durations to maximum of approximately 10 Working Days, to allow for progress reporting.

1.4.4. Ensure that it is understood that Award of Contract or time of beginning, rate of progress, Interim Certificate and Final Certificate as defined times of completion are of essence of this contract.

1.4.5. Include Work sequencing description and schedule:

1.4.5.1. Work Sequencing description must describe sequence, methods and means to perform each major task.

1.4.5.2. Work Sequencing schedule must show on a Gantt chart, start, end and dependencies of each major task and also indicates Work to be performed in sequence and in parallel.

1.4.5.3. Major tasks includes all items identified on Unit Price Table.

1.5. Master Plan

1.5.1. Structure schedule to allow orderly planning, organizing and execution of Work as Bar Chart (GANTT).

1.5.2. Departmental Representative will review and return revised schedules within 5 Working Days.

1.5.3. Revise impractical schedule and resubmit within 5 Working Days.

1.5.4. Accepted revised schedule will become Master Plan and be used as baseline for updates.

1.6. Project Schedule

1.6.1. Develop detailed Project Schedule derived from Master Plan.

1.6.2. Ensure detailed Project Schedule includes as minimum milestone and activity types as follows:

1.6.2.1. Dates of commencement and completion of Work for each Description of Work identified on the Unit Price Table.

1.6.2.2. Dates of Submittals including shop drawings, product data, MSDS sheets and samples.

1.6.2.3. Dates of inspection and testing.

1.6.2.4. Final Completion date within the time period in accordance with the Contract, including Amendments.

1.7. Project Schedule Reporting

1.7.1. Update Project Schedule on monthly basis reflecting activity changes and completions, as well as activities in progress.

1.7.2. Include as part of Project Schedule, narrative report identifying Work status to date, comparing current progress to baseline, presenting current forecasts, defining problem areas, anticipated delays and impact with possible mitigation.

1.8. Project Meetings

1.8.1. Discuss Project Schedule at regular site meetings, identify activities that are behind schedule and provide measures to regain slippage. Activities considered behind schedule are those with projected start or completion dates later than current approved dates shown on baseline schedule.

1.8.2. Weather related delays with their remedial measures will be discussed and negotiated

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Shop Drawings: at least 5 Working Days prior to commencing applicable Work, Submit Shop Drawings signed by a Qualified Professional.

1.4. General

1.4.1. This section specifies general requirements and procedures for the Contractor's Submittals of design drawings, shop drawings, product data, samples and other submittals in accordance with the Contract to Departmental Representative. Additional specific requirements for Submittals are identified in individual technical sections.

1.4.2. Present shop drawings, product data and samples in SI Metric units.

1.4.3. Where items or information is not produced in SI Metric units, converted values are acceptable.

1.4.4. Contractor's responsibility for errors and omissions in Submittals is not relieved by the Departmental Representative's review of Submittals.

1.4.5. Notify Departmental Representative in writing at time of Submittals, identifying deviations from requirements of Contract and stating reasons for deviations.

1.4.6. Contractor's responsibility for deviations in Submittals from requirements of Contract is not relieved by the Departmental Representative's review of Submittals unless Departmental Representative gives written acceptance of specific deviations.

1.4.7. Make any changes in Submittals which Departmental Representative requires to be in accordance with the Contract and resubmit as instructed by the Departmental Representative.

1.4.8. Notify Departmental Representative in writing, when resubmitting, of any revisions other than those instructed by the Departmental Representative.

1.4.9. Do not proceed with Work until relevant Submittals are finalized and have been accepted.

1.4.10. Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to Submit in ample time is responsibility of Contractor.

1.4.11. Review Submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each Submittal has been checked and coordinated with requirements of Work and Contract. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.
1.4.12. Verify field measurements and affected adjacent Work are coordinated.
1.4.13. Adjustments made on Submittals by the Departmental Representative will not result in an increase the Contract Amount nor an Extension of Time for completion of the Work. If adjustments result in an increase to the Contract Amount or an Extension of Time for completion of the Work, notify Departmental Representative and receive approval prior to proceeding with Work.
1.4.14. Keep one final copy of each Submittal onsite.

1.5. Submission Requirements

1.5.1. Coordinate each Submittal with the requirements of the Work and the Contract. Individual Submittals will not be reviewed until:
1.5.1.1. Submittals are complete.
1.5.1.2. All related information is available.
1.5.2. Allow 10 Working Days for Departmental Representative's review of each Submittal, unless otherwise specified.
1.5.3. All Submittals are to be sent to Departmental Representative in duplicate as a hardcopy and in electronic format compatible with Departmental Representative's software.
1.5.4. Accompany Submittals with On Site Notification:
1.5.4.1. Date.
1.5.4.2. Project title and number.
1.5.4.3. Contractor's name and address.
1.5.4.4. Identification and quantity of each shop drawing, product data and sample.
1.5.4.5. Other pertinent data.
1.5.5. Submittals must include:
1.5.5.1. Date and revision dates.
1.5.5.2. Project title and number.
1.5.5.3. Name and address of:
1.5.5.3.1. Subcontractor.
1.5.5.3.2. Supplier.
1.5.5.3.3. Manufacturer.
1.5.5.4. Signature of Superintendent, certifying approval of Submittals, verification of field measurements and in accordance with the Contract.
1.5.5.5. Qualified Professional to sign and seal Submittals in accordance with the Contract. Submittals to include at a minimum 1 hard copy of original ink sealed document.
1.5.5.6. Details of appropriate portions of Work as applicable.

1.6. Shop Drawings

1.6.1. Shop drawings are drawings, figures, diagrams, illustrations, schedules, performance charts, brochures and other data intended to illustrate details of a portion of the Work which are provided by the Qualified Professional of record.

1.6.2. Maximum sheet size: ANSI E (864 x 1118 mm).

1.6.3. Submit, as instructed by the Departmental Representative, 2 copies of shop drawings for each requirement requested in the specification sections and/or as instructed by the Departmental Representative.

1.6.4. Cross-reference shop drawing information to applicable portions of the Contract.

1.6.5. Qualified Professional to sign and seal each individual shop drawing.

1.6.6. Qualified Professional to sign and seal final design drawings and submit as instructed by the Departmental Representative upon Final Completion of the construction project. Final design drawings are prepared by a Qualified Professional to reflect design changes made during the construction of the Remediation by Excavation project. Final design drawings are intended to incorporate addenda, change orders and other significant design changes, but not necessarily Site instructions.

1.6.7. Shop drawings must include:

1.6.7.1. The original date of issue.

1.6.7.2. The dates of all applicable revisions.

1.6.7.3. The project title.

1.6.7.4. The project address.

1.6.7.5. The project number.

1.6.7.6. Wherever applicable, the name(s) of the: Contractor, Subcontractor(s), Supplier(s), manufacturers, and separate detailers.

1.6.7.7. The sequence number for each shop drawing.

1.6.7.8. Identifications of all products and materials.

1.6.7.9. Relation to adjacent structures or materials.

1.6.7.10. Clearly identified field dimensions.

1.6.7.11. Applicable standards.

1.7. Shop Drawings Review

1.7.1. Departmental Representative's review of shop drawings is to determine if shop drawings are consistent with the general intent of the Contract and are in accordance with the Contract.

1.7.2. This review will not mean that Departmental Representative approves the detail design inherent in the shop drawings, responsibility for which will remain with Contractor submitting same.

1.7.3. This review will not relieve the Contractor of responsibility for errors or omissions in the shop drawings or of responsibility for meeting all requirements of the Contract.

1.7.4. Without restricting the generality of the foregoing, be responsible for:

1.7.4.1. Dimensions to be confirmed and correlated at the Site.

1.7.4.2. Information that pertains solely to fabrication processes or to techniques of construction and installation.
1.7.4.3. Coordination of the Work of all sub-trades.

2. PART 2 - PRODUCTS

2.1. Not Used
2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used
3.1.1. Not Used.

END OF SECTION

4. PART 1 - GENERAL

4.1. Measurement Procedures

4.1.1. See 01 11 00.

4.2. Definitions

4.2.1. See 01 11 00.

4.3. Action and Informational Submittals

4.3.1. List of Signs and Devices: within 10 Working Days after Contract award and prior to mobilization to Site. Submit a list of signs and other devices required for the project.

4.4. Protection of Public Traffic

4.4.1. Comply with requirements of acts, regulations and bylaws in force for regulation of traffic or use of roadways upon or over which it is necessary to carry out Work or haul materials or equipment.

4.4.2. Comply with current version of BC Ministry of Transportation and Infrastructure *Traffic Control Manual for Work on Roadways*.

4.4.3. Provide and maintain road access and egress to property fronting Site and in other areas in accordance with the Contract, except where other means of road access exist that are accepted.

4.5. Informational and Warning Devices

4.5.1. Provide and maintain signs, flashing warning lights, and other devices required to indicate construction activities or other temporary and unusual conditions resulting from Work which requires road user response.

4.5.2. Supply and erect signs, delineators, barricades and miscellaneous warning devices to comply with current version of BC Ministry of Transportation and Infrastructure *Traffic Control Manual for Work on Roadways*.

4.5.3. Place signs and other devices in locations recommended in current version of BC Ministry of Transportation and Infrastructure *Traffic Control Manual for Work on Roadways*.

4.5.4. Meet with Departmental Representative prior to commencement of Work to prepare list of signs and other devices required for project. If situation onsite changes, revise list for approval.

4.5.5. Continually maintain traffic control devices in use:

4.5.5.1. Check signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.

4.5.5.2. Remove or cover signs which do not apply to conditions existing from day to day.

4.6. Control of Public Traffic

4.6.1. Provide competent flag personnel, trained in accordance with, and properly equipped to, current version of BC Ministry of Transportation and Infrastructure *Traffic Control Manual for Work on Roadways* for situations as follows:

4.6.1.1. When public traffic is required to pass working vehicles or equipment that block all or part of travelled roadway.

4.6.1.2. In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.

4.7. Operational Requirements

4.7.1. Maintain existing conditions for traffic throughout period of Contract except that, when required for construction in accordance with the Contract and when measures have been taken in accordance with the Contract and accepted by Departmental Representative to protect and control public traffic, existing conditions for traffic to be restricted as follows:

4.7.1.1. Maintain existing conditions for traffic crossing right-of-way.

5. PART 2 - PRODUCTS

5.1. Not Used

5.1.1. Not Used.

6. PART 3 - EXECUTION

6.1. Not Used

6.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Contaminated Material and Non-Contaminated Material Management Plan: within 5 Working Days after Contract award and prior to mobilization to Site, Submit plan detailing management of Contaminated Material and Non-Contaminated Material. Include:

1.3.1.1. Sequence, methods and means to ensure different categories of waste are segregated.

1.3.1.2. Sequence, methods and means to handle, transport, and store Contaminated Material and Non-Contaminated Material onsite.

1.3.1.3. Sequence, methods and means to transport Contaminated Material and Non-Contaminated Material offsite. Include name, vehicle type, and licenses of transporters. Include name, location, provincial or territorial authorizations, and evidence of compliance with municipal zoning and bylaws of all transfer stations and interim storage facilities.

1.3.1.4. Sequence, methods and means to treat Contaminated Material offsite. Include proposed treatment method, schedule for treatment, and name, location, provincial or territorial authorizations, and evidence of compliance with municipal zoning and bylaws of Treatment Facilities.

1.3.1.5. Sequence, methods and means to dispose Contaminated Material and Non-Contaminated Material offsite. Include name, location, provincial or territorial authorizations, and evidence of compliance with municipal zoning and bylaws of Disposal Facilities.

1.3.2. Contaminated Water Treatment Plant Provision Plan: within 15 Working Days after Contract award and prior to mobilization to Site, Submit design, operation procedures, manufacturers' instructions, and monitoring and sampling plan of onsite Contaminated Water Treatment Plant.

1.3.3. Contaminated Water Treatment Plant Initial Testing: within 5 Working Days of conducting initial operations testing, and prior to operating or discharge, Submit results of initial operations test.

1.3.4. Contaminated Water Treatment Plant Operational Testing: within 5 Working Days of sampling Submit sampling results of operational (recurrent) testing.

1.3.5. Certificate of Seaworthiness: Prior to barge shipments, Submit a Certificate of Seaworthiness by an independent licensed Marine Surveyor for all marine vessels transporting Contaminated Material.

1.3.6. Transport Manifests: within 5 Working Days of offsite transport, Submit documentation verifying that material has been transported appropriately. Include:

1.3.6.1. Method of transport.

1.3.6.2. Name of transport company.

1.3.6.3. Weigh scale receipt including location, date, and weight of loading.

1.3.6.4. Weigh scale receipt including location, date, and weight of unloading.

1.3.7. Certificate of Treatment: within 30 Working Days of treatment at offsite Treatment Facility, Submit documentation verifying that materials have been treated by Contractor. Include:

1.3.7.1. Issued by the Treatment Facility.

1.3.7.2. On company letterhead.

1.3.7.3. Name and location of facility where the material is being treated.

1.3.7.4. Date and weight for each shipment received and total weight received at the offsite facility.

1.3.7.5. Date and weight for each treatment event and total weight treated at the offsite facility.

1.3.7.6. Treatment methodology.

1.3.7.7. Laboratory certificates demonstrating treatment objectives were met.

1.3.7.8. Disposition of treated material.

1.3.7.9. Signed by identified authorized treatment company representative.

1.3.8. Certificate of Disposal: within 30 Working Days of disposal at Disposal Facility, Submit documentation verifying that materials have been disposed by Contractor. Include:

1.3.8.1. Issued by the Disposal Facility.

1.3.8.2. On company letterhead.

1.3.8.3. Name and location of facility where the material is being disposed.

1.3.8.4. Date and weight for each shipment received and total weight received at the Disposal Facility.

1.3.8.5. Identification of final ownership of material.

1.3.8.6. Signed by identified authorized disposal company representative.

1.4. Sequencing and Scheduling

1.4.1. Commence Work involving contact with Contaminated or potentially Contaminated Material or Wastewater after all applicable Environmental Protection procedures (including those identified in Contaminated Material and Non-Contaminated Material Management Plan and Environmental Protection Plan) and facilities (including those identified in Site Layout) are operational and accepted by Departmental Representative.

1.4.2. Plan work sequencing and traffic patterns to prevent contamination of clean areas due to traffic or debris.

1.5. Equipment Decontamination Facility

1.5.1. Prior to commencing Work involving equipment contact with potentially Contaminated Material, construct equipment decontamination facilities to accommodate the largest potentially contaminated equipment onsite.

1.5.2. Collect and contain equipment decontamination wastewater and sediment. Transfer collected wastewater and sediment to treatment facilities accepted by Departmental Representative.

1.6. Personnel Decontamination Facility

1.6.1. Provide an area or areas close to the workers' changing facilities to enable workers and other personnel leaving areas such as exclusion area to remove deleterious and contaminated materials from boots, clothing and skin surfaces.

1.6.2. Be responsible for ensuring that all materials, chemicals, protective clothing, wash water and deleterious materials are collected, treated and disposed of in accordance with applicable environmental standards and regulations.

1.6.3. Personnel Decontamination Facility to be available for use by persons other than the Contractor's workers and Subcontractors, including federal employees, other contractor(s), and environmental agencies. Provide use of facilities to other persons.

1.7. Drum Staging Pad

1.7.1. Provide, maintain, and operate drum staging pad as required.

1.7.2. Construct drum staging pad with sump capable of collecting leachate and rain runoff. Place impermeable liner that contours over top of berm, and collects leachate and runoff from staging pad which is conducted solely to sump on staging pad. Leachate is Contaminated Water.

1.8. Contaminated Water Treatment Plant

1.8.1. Design Requirements:

1.8.1.1. Design and Operating Criteria: design Contaminated Water Treatment Plant capable of treating Contaminated Water generated from dewatering excavations and Work areas to meet Discharge Approval requirements, capable of removing oil, suspended solids, particulates, and asbestos fibers, and filter water through 5-micron particulate filter prior to discharge.

1.8.1.2. Ensure that discharges from Site are in compliance with applicable permit requirements and limitations.

1.8.1.3. Design piping to transfer liquid/solid mixtures generated by dewatering operations which require treatment to Contaminated Water Treatment Plant.

1.8.1.4. Design Contaminated Water Treatment Plant capable of receiving liquid/solid mixtures and not causing delay to dewatering operations.

1.8.1.5. Piping: suitable material type, of sufficient diameter and structural thickness for purpose intended; satisfactorily tested for leaks with potable water in presence of Departmental Representative before handling Contaminated Water.

1.8.2. Installation:

1.8.2.1. Prepare Site for Contaminated Water Treatment Plant.

1.8.2.2. Install component systems in accordance with installation procedures and as required.

1.8.2.3. Following installation of system, implement initial operation test in accordance with procedures developed by Contractor and submit results as instructed by the Departmental Representative.

1.8.2.4. Install piping in accordance with manufacturer's instructions and test for leakage using potable water prior to commencing dewatering and treatment operations.

1.8.3. Initial Testing: determine performance of Contaminated Water Treatment Plant provided by Contractor as follows prior to commencing excavation:

1.8.3.1. Test run with potable water to ensure it is operating currently and no leaks are occurring.

1.8.3.2. Performance verification (contaminant removal) of Contaminated Water treated, stored, tested, assessed, and accepted by Departmental Representative prior to discharge.

1.8.3.3. Provide access for independent collection of treated stored water samples by the Departmental Representative.

1.8.4. Operational Testing:

1.8.4.1. Operate Contaminated Water Treatment Plant using experienced, qualified personnel and in accordance with manufacturer's instructions and procedures as Submittals by Contractor.

1.8.4.2. Collect, analyze, and assess samples as recommended by a Qualified Professional.

1.8.4.3. Provide access for independent collection of samples by the Departmental Representative.

1.8.4.4. On basis of analytical results by Contractor or Departmental Representative obtained from samples collected at the discharge point, make system modifications required for effluent to satisfy effluent criteria, or continue with normal dewatering operations as instructed by the Departmental Representative.

1.8.5. Decommissioning/Dismantling:

1.8.5.1. Decontaminate and remove salvageable components of Contaminated Water Treatment Plant including treatment system, pumps, piping, and electrical equipment. Decontaminate salvageable equipment as required prior to demobilization from Site.

1.8.5.2. Dispose of non-salvageable equipment and materials at Disposal Facility accepted by the Departmental Representative.

1.9. Soil Stockpiling

1.9.1. Provide, maintain, and operate temporary storage/stockpiling facilities as per Contractor's Site Layout.

1.9.2. Segregate Contaminated Material from Non-Contaminated Material into separate stockpiles to prevent cross-contamination and as instructed by the Departmental Representative.

1.9.3. Prevent precipitation from infiltrating or from directly running off stockpiled materials. Cover stockpiled materials with an impermeable cover during periods of Work stoppage including at end of each Working Day and as instructed by the Departmental Representative.

1.9.4. Securely fasten covers over stockpiled material until material is loaded for offsite transport.

1.9.5. Store excavated Non-Contaminated Material only on non-contaminated surface areas. Ensure no contact between excavated Non-Contaminated Material and drainage of Contaminated Water or Contaminated Material.

1.9.6. Store excavated Contaminated Material in temporary stockpiles.

1.9.6.1. Install impermeable liner (eg asphalt or minimum 20 mil (0.5mm) polyethylene) below proposed stockpile locations to prevent contact between stockpile material and ground.

1.9.6.2. Cover stockpiled material when not being worked or sampled to prevent release of airborne dust, vapours, or odours, and to prevent saturation and leachate generation from material.

1.9.6.3. Prevent Non-Contaminated Water, such as surface water, from coming into contact with Contaminated Material stockpiles.

1.9.7. Segregate Contaminated Material into different treatment/disposal streams, including at a minimum:

1.9.7.1. Hazardous Waste

1.9.7.2. Waste Quality

1.9.8. Segregate different suspect material in discrete stockpiles to facilitate ex-situ characterization as instructed by the Departmental Representative.

1.9.9. Assist Departmental Representative in collection of stockpile samples for exsitu characterization. Ex-situ characterization may take up to 5 Working Days, not counting the day the sample is collected. No Standby Time charges or increases to Contract Amount or Extension of Time for completion of the Work can be incurred for Confirmation Sample results provided within 5 Working Days, not counting the day the sample is collected.

1.9.10. Do not remove Contaminated Material from stockpiles until exsitu characterization completed and as instructed by Departmental Representative.

1.10. Equipment Decontamination

1.10.1. At minimum, perform following steps during equipment decontamination: mechanically remove packed dirt, grit, and debris by scraping and brushing without using steam or high-pressure water to reduce amount of water needed and to reduce amount of contaminated rinsate generated.

1.10.2. If required, as instructed by the Departmental Representative, use high-pressure, low-volume, hot water or steam supplemented by detergents or solvents as appropriate. Pay particular attention to tire treads, equipment tracks, springs, joints, sprockets, and undercarriages. Scrub surfaces with long handle scrub brushes and cleaning agent. Rinse off and collect cleaning agent. Air dry equipment in clean area before removing from Site or travelling on clean areas. Perform assessment as instructed by the Departmental Representative to determine effectiveness of decontamination.

1.10.2.1. Take appropriate measures necessary to minimize drift of mist and spray during decontamination including provision of wind screens.

1.10.2.2. Collect decontamination wastewater and sediment which accumulate in decontamination location. Treat collected wastewater as Contaminated Water. Manage decontamination sediment as Hazardous Waste.

1.10.3. In the opinion of the Departmental Representative, each piece of equipment must be inspected by the Departmental Representative after decontamination and prior to travel on clean areas or demobilization from Site. Perform additional decontamination as required in the opinion of the Departmental Representative.

1.10.4. Furnish and equip personnel engaged in equipment decontamination with protective equipment including suitable disposable clothing, respiratory protection, and face shields.

1.11. Progress Decontamination

1.11.1. Decontaminate equipment after working in potentially contaminated Work areas and prior to subsequent Work or travel on clean areas.

1.12. Final Decontamination

1.12.1. Perform final decontamination of construction facilities, equipment, and materials which may have come in contact with potentially Contaminated Material prior to demobilization from Site.

1.13. Drums

1.13.1. Storage of liquid waste: 200 L steel drums meeting Transportation and Dangerous Goods Act, closable lids, complete with labels for marking contents and date filled.

1.13.2. Storage of solid waste: 200 L steel drums meeting Transportation and Dangerous Goods Act, closable lids, complete with labels for marking contents and date filled.

1.14. Contaminated Water

1.14.1. Assume ownership of, and be responsible for Contaminated Water once it is loaded on a vehicle, barge, or other vessel for transport offsite or once it enters the Contaminated Water Treatment Plant.

1.14.2. Collect Contaminated Water that has, or potentially has, come into contact with Contaminated Material including excavation and stockpile areas, or is otherwise potentially contaminated from Work activities.

1.14.3. Transport and treat collected Contaminated Water at Contaminated Water Treatment Plant.

1.14.4. Discharge to environment: obtain Discharge Approval from authority having jurisdiction. Comply with Waterway Impact Requirements.

1.15. Onsite Contaminated Water Treatment Plant

1.15.1. Onsite Contaminated Water Treatment: at Contractor's discretion, treat at Treatment Facility onsite provided by Contractor and accepted by the Departmental Representative.

1.15.2. Design Requirements:

1.15.2.1. Design and Operating Criteria: design Contaminated Water Treatment Plant capable of treating Contaminated Water generated from dewatering excavations and Work areas to meet Discharge Approval requirements, capable of removing oil, suspended solids, particulates, and asbestos fibers, and filter water through 5-micron particulate filter prior to discharge.

1.15.2.2. Ensure that discharges from Site are in compliance with applicable permit requirements and limitations.

1.15.2.3. Design piping to transfer liquid/solid mixtures generated by dewatering operations which require treatment to Contaminated Water Treatment Plant.

1.15.2.4. Design Contaminated Water Treatment Plant capable of receiving liquid/solid mixtures and not causing delay to dewatering operations.

1.15.2.5. Piping: suitable material type, of sufficient diameter and structural thickness for purpose intended; satisfactorily tested for leaks with potable water in presence of Departmental Representative before handling Contaminated Water.

1.15.3. Installation:

1.15.3.1. Prepare Site for Contaminated Water Treatment Plant.

1.15.3.2. Install component systems in accordance with installation procedures and as required.

1.15.3.3. Following installation of system, implement initial operation test in accordance with procedures developed by Contractor and submit results as directed by the Departmental Representative.

1.15.3.4. Install piping in accordance with manufacturer's instructions and test for leakage using potable water prior to commencing dewatering and treatment operations.

1.15.4. Initial Testing: determine performance of Contaminated Water Treatment Plant provided by Contractor as follows prior to commencing excavation:

1.15.4.1. Test run with potable water to ensure it is operating currently and no leaks are occurring.

1.15.4.2. Performance verification (contaminant removal) of Contaminated Water treated, stored, tested, assessed, and accepted by Departmental Representative prior to discharge.

1.15.4.3. Provide access for independent collection of treated stored water samples by the Departmental Representative.

1.15.5. Operational Testing:

1.15.5.1. Operate Contaminated Water Treatment Plant using experienced, qualified personnel and in accordance with manufacturer's instructions and procedures as Submittals by Contractor.

1.15.5.2. Collect, analyze, and assess samples as required by a Qualified Professional.

1.15.5.3. Provide access for independent collection of samples by the Departmental Representative.

1.15.5.4. On basis of analytical results by Contractor or Departmental Representative obtained from samples collected at the discharge point, make system modifications required for effluent to satisfy effluent criteria, or continue with normal dewatering operations as directed by the Departmental Representative.

1.15.6. Decommissioning/Dismantling:

1.15.6.1. Decontaminate and remove salvageable components of Contaminated Water Treatment Plant including treatment system, pumps, piping, and electrical equipment.

1.15.6.2. Dispose of non-salvageable equipment and materials at Disposal Facility accepted by the Departmental Representative. Decontaminate salvageable equipment as required prior to demobilization from Site.

1.15.7. Discharge to environment: obtain Discharge Approval from authority having jurisdiction.

1.16. Contaminated Material Management

1.16.1. Remove all Contaminated Material within Work areas in accordance with the Contract and as instructed by the Departmental Representative.

1.16.2. Minimize generation of Contaminated Material to greatest extent practicable. Take necessary precautions to avoid mixing during excavation, handling, loading, stockpiling, and transport of Non-Contaminated Material with Contaminated Material, and Waste Quality with Hazardous Waste.

1.16.3. Segregate, excavate, handle, stockpile, load, transport, treat, and dispose Contaminated Material separately into the following classifications in accordance with the Contract or as instructed by the Departmental Representative based on in-situ results, field observations, field measurements, and/or ex-situ characterization:

1.16.3.1. Hazardous Waste

1.16.3.2. Waste Quality

1.16.4. Handle, stockpile, load, and transport Contaminated Material from the Site separately from material from other sites.

1.16.5. Treat and dispose Contaminated Material from the Site separately from material from other sites to the extent practicable as acceptable to the Departmental Representative.

1.16.6. Material characterization additional to information provided in Contract required by transport, Treatment Facility or Disposal Facility responsibility of Contractor.

1.17. Contaminated Material Transport-Offsite

1.17.1. Assume ownership of, and be responsible for, Contaminated Material once it is loaded on a vehicle, barge, or other vessel for transport.

1.17.2. Transport material as soon as practical. Do not unreasonably stockpile material onsite.

1.17.3. Cover material while being transported to prevent release of airborne dust, vapours, or odours, and to prevent saturation and leachate generation from material.

1.17.4. Excess water in soil or sediment must not be allowed to flow out of vehicle or vessel during transport.

1.17.5. Stabilize soil and sediment as necessary.

1.17.6. All vehicles, vessels and operators must be appropriately licensed and equipped to transport Hazardous Waste soil and sediment.

1.17.7. Manifest and correlate weights of all material transported from Site documenting weight at removal from Site, movement, transfer stations, interim storage and treatment, and weight of material at final Disposal Facility. Submit all manifests, as instructed by the Departmental Representative.

1.17.8. Material transported with discrepancies in manifests must be resolved as required by regulations and as acceptable to the Departmental Representative. Discrepancies include:

1.17.8.1. No manifest or an incomplete manifest.

1.17.8.2. The material transported does not match the description in the manifest.

1.17.8.3. The amount transported differs by more than 5% in the manifest.

1.17.8.4. The material transported is in a hazardous condition.

1.18. Contaminated Material Disposition

1.18.1. Treat and dispose of Contaminated Material as follows, otherwise in accordance with the Contract, or as instructed by the Departmental Representative:

1.18.1.1. Hazardous Waste: May be treated at a Treatment Facility prior to disposal at a Disposal Facility.

1.18.1.2. Waste Quality: May be treated at a Treatment Facility prior to disposal at a Disposal Facility.

1.19. Contaminated Material Transport-Owner Soil Treatment Facility

1.19.1. Assume ownership of, and be responsible for, Contaminated Material once it is loaded on a vehicle, barge, or other vessel for transport.

1.19.2. Transport material as soon as practical. Do not unreasonably stockpile material onsite.

1.19.3. Cover material while being transported to prevent release of airborne dust, vapours, or odours, and to prevent saturation and leachate generation from material.

1.19.4. Excess water in soil or sediment must not be allowed to flow out of vehicle or vessel during transport.

1.19.5. Stabilize soil and sediment as necessary.

1.19.6. All vehicles, vessels and operators must be appropriately licensed and equipped to transport Hazardous Waste soil and sediment.

1.19.7. Transport material to location shown on Drawings.

1.19.8. Manifest estimated volumes of all material transported from Site to Owner Soil Treatment Facility. Submit all manifests as directed by the Departmental Representative.

1.20. Contaminated Material Treatment- Owner Soil Treatment Facility

1.20.1. Contaminated Material Treatment-Onsite: place Contaminated Material at Treatment Facility provided by Owner.

1.20.1.1. Screen contaminated material as specified and place in Owner Soil Treatment Facility in locations and thicknesses according to Drawings.

1.20.1.2. Be responsible for any damage to Owner Soil Treatment Facility caused by placement.

1.20.2. Treat soil according to Drawings.

1.21. Contaminated Material Treatment - Offsite

1.21.1. Contaminated Material Treatment-Offsite: treat at Treatment Facility provided by Contractor and accepted by the Departmental Representative.

1.21.2. Treatment Facility must:

1.21.2.1. Be an existing offsite facility located in Canada or the United States.

1.21.2.2. Be designed, constructed and operated for the handling or processing of waste in such a manner as to change the physical, chemical or biological character or composition of waste amenable to treatment to lower than the BC *Contaminated Sites Regulation* Schedule 7 Column II.

1.21.2.3. Hold a valid and subsisting permit, certificate, approval, or any other form of authorization issued by a province or territory for the treatment of soil or other material that is Hazardous Waste or Waste Quality, as applicable.

1.21.2.4. Comply with applicable municipal zoning, bylaws, and other applicable requirements.

1.21.3. Facility Regulator:

1.21.3.1. For facilities within provincial or territorial jurisdiction, the relevant provincial or territorial ministry.

1.21.3.2. For facilities on First Nations reserve land in Canada not subject to the First Nation Land Management regime: Indigenous and Northern Affairs Canada.

1.21.3.3. For facilities on First Nations reserve land in Canada subject to the First Nation Land Management regime, the relevant First Nation Council. In addition, a Qualified Professional must certify that the facility is appropriate for the relevant Contaminated Material.

1.21.3.4. For facilities in the United States of America, either or both of the Environmental Protection Agency and the relevant State, as appropriate.

1.21.4. Treat material as soon as practical and within 100 Working Days of leaving Site or as required by Contract unless otherwise accepted by Departmental Representative.

1.21.5. Material treated offsite must subsequently be disposed of at a Disposal Facility after treatment.

1.21.6. Treatment includes bioremediation, thermal desorption, and incineration. Treatment does not include blending, mixing, or dilution.

1.21.7. If proposed Treatment Facility is not acceptable to Departmental Representative, identify an alternate Treatment Facility that is acceptable.

1.21.8. Submit Certificates of Treatment for all material treated offsite.

1.22. Contaminated Material Disposal

1.22.1. Contaminated Material Disposal: dispose Contaminated Material at Disposal Facility provided by Contractor and accepted by the Departmental Representative.

1.22.2. Disposal Facility must:

1.22.2.1. Be an existing offsite facility located in Canada or the United States.

1.22.2.2. Be designed, constructed and operated to prevent any pollution from being caused by the facility outside the area of the facility from waste placed in or on land within the facility.

1.22.2.3. Hold a valid and subsisting permit, certificate, approval, or any other form of authorization issued by a province or territory for the disposal of soil or other material that is Waste Quality.

1.22.2.4. Comply with applicable municipal zoning, bylaws, and other applicable requirements.

1.22.3. Facility Regulator:

1.22.3.1. For facilities within provincial or territorial jurisdiction, the relevant provincial or territorial ministry.

1.22.3.2. For facilities on First Nations reserve land in Canada not subject to the First Nation Land Management regime: Indigenous and Northern Affairs Canada.

1.22.3.3. For facilities on First Nations reserve land in Canada subject to the First Nation Land Management regime, the relevant First Nation Council. In addition, a Qualified Professional must certify that the facility is appropriate for the relevant Contaminated Material.

1.22.3.4. For facilities in the United States of America, either or both of the Environmental Protection Agency and the relevant State, as appropriate.

1.22.4. Dispose material as soon as practical and within 100 Working Days of leaving Site or as required by Contract unless otherwise accepted by Departmental Representative.

1.22.5. Material sent to a Disposal Facility must be permanently stored at that facility.
1.22.6. If proposed Disposal Facility is not acceptable to Departmental Representative, provide an alternate Disposal Facility that is acceptable.
1.22.7. Submit Certificates of Disposal for all material disposed offsite.

2. PART 2 - PRODUCTS

2.1. Not Used
2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used
3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Submit to Departmental Representative Submittals listed for review.
1.3.2. Work affected by Submittal must not proceed until review is complete.
1.3.3. Submit the following:
1.3.3.1. Health and Safety Plan.
1.3.3.2. Copies of reports or directions issued by federal and provincial health and safety inspectors.
1.3.3.3. Copies of incident and accident reports.
1.3.3.4. Complete set of Material Safety Data Sheets (MSDS), and all other documentation required by Workplace Hazardous Materials Information System (WHMIS) requirements.
1.3.3.5. Emergency Procedures.
1.3.3.6. Notice of Project.
1.3.4. The Departmental Representative will review the Contractor's site-specific project Health and Safety Plan and emergency procedures, and provide comments to the Contractor within 5 Working Days after receipt of the plan.
1.3.5. If changes are required, revise the plan as appropriate and resubmit to Departmental Representative within 5 Working Days.
1.3.6. Submittal of the Health and Safety Plan, and any revised version, to the Departmental Representative is for information and reference purposes only. It will not:
1.3.6.1. Be construed to imply approval by the Departmental Representative.
1.3.6.2. Be interpreted as a warranty of being complete, accurate and legislatively compliant.
1.3.6.3. Relieve the Contractor of his legal obligations for the provision of health and safety on the project.

1.4. References

1.4.1. Government of Canada:
1.4.1.1. Canada Labour Code - Part II.
1.4.1.2. Canada Occupational Health and Safety Regulations.
1.4.2. National Building Code of Canada (NBC):
1.4.2.1. Part 8, Safety Measures at Construction and Demolition Sites.
1.4.3. Canadian Standards Association (CSA) as amended:
1.4.3.1. CSA Z797-2009 Code of Practice for Access Scaffold.
1.4.3.2. CSA S269.1-1975 (R2003) Falsework for Construction Purposes.

1.4.3.3. CSA S350-M1980 (R2003) Code of Practice for Safety in Demolition of Structures.
1.4.4. National Fire Code of Canada 2010 (as amended):
1.4.4.1. Part 5 – Hazardous Processes and Operations and Division B as applicable and required.
1.4.4.2. FCC No. 302, Standard for Welding and Cutting.
1.4.5. American National Standards Institute (ANSI):
1.4.5.1. ANSI A10.3, Operations – Safety Requirements for Powder-Actuated Fastening Systems.
1.4.6. Province of British Columbia:
1.4.6.1. Workers Compensation Act Part 3-Occupational Health and Safety.
1.4.6.2. Occupational Health and Safety Regulation.

1.5. Regulatory Requirements

1.5.1. Comply with codes, acts, bylaws, standards and regulations applicable to the performance of the Work in accordance with the Contract to ensure safe operations at Site.
1.5.2. In event of conflict between any provision of the above authorities, the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, the Departmental Representative will instruct on the course of action to be followed.

1.6. Worker's Compensation Board Coverage

1.6.1. Comply fully with the Workers' Compensation Act, regulations and orders made pursuant thereto, and any amendments up to the Final Completion of the Work.
1.6.2. Maintain Workers' Compensation Board coverage during the term of the Contract, until and including the date that the Certificate of Final Completion is issued.

1.7. Compliance with Regulations

1.7.1. PSPC may terminate the Contract without liability to PSPC where the Contractor, in the opinion of PSPC, refuses to comply with a requirement of the Workers' Compensation Act or the Occupational Health and Safety Regulations.
1.7.2. It is the Contractor's responsibility to ensure that all workers are qualified, competent and certified to perform the Work as required by the Workers' Compensation Act or the Occupational Health and Safety Regulations.

1.8. Responsibility

1.8.1. Assume responsibility as the Prime Contractor for Work under this Contract.
1.8.1.1. Be responsible for health and safety of persons onsite, safety of property onsite and for protection of persons adjacent to Site and environment to extent that they may be affected by conduct of Work.

1.8.1.2. Comply with and enforce compliance by employees with safety requirements of Contract, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.9. Health and Safety Coordinator

1.9.1. The Health and Safety Coordinator must:

1.9.1.1. Be responsible for completing all health and safety training, and ensuring that personnel that do not successfully complete the required training are not permitted to enter the Site to perform Work.

1.9.1.2. Be responsible for implementing, daily enforcing, and monitoring the site-specific Health and Safety Plan.

1.9.1.3. Be on Site during execution of Work.

1.10. General Conditions

1.10.1. Provide safety barricades and lights around Site as required to provide a safe working environment for workers and protection for pedestrian and vehicular traffic.

1.10.2. Ensure that non-authorized persons are not allowed to circulate in designated construction areas of the Site:

1.10.2.1. Provide appropriate means by use of barricades, fences, warning signs, traffic control personnel, and temporary lighting as required.

1.11. Number of Workers

1.11.1. In addition to the number of workers required by the contractor, the contractor shall develop the health and safety plan in consideration that a minimum of two Departmental Representatives will be on site at all times.

1.12. Project/Site Conditions

1.12.1. Work at Site will involve contact with contaminants identified in Specifications and environmental reports.

1.13. Work Permits

1.13.1. Obtain specialty permits related to project before start of Work.

1.14. Filing of Notice

1.14.1. The Prime Contractor is to complete and submit a Notice of Project as required by Provincial or Territorial authorities.

1.14.2. Provide copies of all notices to the Departmental Representative.

1.15. Health and Safety Plan

1.15.1. Conduct a site-specific hazard assessment based on review of Contract, required Work, and project Site. Identify any known and potential health risks and safety hazards.

1.15.2. Prepare and comply with a site-specific project Health and Safety Plan based on hazard assessment, including, but not limited to, the following:
1.15.2.1. Primary requirements:
1.15.2.1.1. Contractor's safety policy.
1.15.2.1.2. Identification of applicable compliance obligations.
1.15.2.1.3. Definition of responsibilities for project safety/organization chart for project.
1.15.2.1.4. General safety rules for project.
1.15.2.1.5. Job-specific safe work, procedures.
1.15.2.1.6. Inspection policy and procedures.
1.15.2.1.7. Incident reporting and investigation policy and procedures.
1.15.2.1.8. Occupational Health and Safety Committee/Representative procedures.
1.15.2.1.9. Occupational Health and Safety meetings.
1.15.2.1.10. Occupational Health and Safety communications and record keeping procedures.
1.15.2.2. Summary of health risks and safety hazards resulting from analysis of hazard assessment, with respect to site tasks and operations which must be performed as part of the Work.
1.15.2.3. List hazardous materials to be brought onsite as required by Work.
1.15.2.4. Indicate engineering and administrative control measures to be implemented at the Site for managing identified risks and hazards.
1.15.2.5. Identify personal protective equipment (PPE) to be used by workers.
1.15.2.6. Identify personnel and alternates responsible for site safety and health.
1.15.2.7. Identify personnel training requirements and training plan, including site orientation for new workers.
1.15.3. Develop the plan in collaboration with all Subcontractors. Ensure that work/activities of Subcontractors are included in the hazard assessment and are reflected in the plan.
1.15.4. Revise and update Health and Safety Plan as required, and re-submit to the Departmental Representative.
1.15.5. Departmental Representative's review: the review of Health and Safety Plan by Public Service and Procurement Canada (PSPC) will not relieve the Contractor of responsibility for errors or omissions in final Health and Safety Plan or of responsibility for meeting all requirements of construction and Contract.

1.16. Emergency Procedures

1.16.1. List standard operating procedures and measures to be taken in emergency situations. Include an evacuation plan and emergency contacts (ie names/telephone numbers) of:
1.16.1.1. Designated personnel from own company.
1.16.1.2. Regulatory agencies applicable to Work and as per legislated regulations.
1.16.1.3. Local emergency resources.
1.16.1.4. Departmental Representative and site staff.
1.16.2. Include the following provisions in the emergency procedures:

1.16.2.1. Notify workers and the first-aid attendant, of the nature and location of the emergency.
1.16.2.2. Evacuate all workers safely.
1.16.2.3. Check and confirm the safe evacuation of all workers.
1.16.2.4. Notify the fire department or other emergency responders.
1.16.2.5. Notify adjacent workplaces or residences which may be affected if the risk extends beyond the workplace.
1.16.2.6. Notify Departmental Representative and Site staff.
1.16.3. Provide written rescue/evacuation procedures as required for, but not limited to:
1.16.3.1. Work at high angles.
1.16.3.2. Work in confined spaces or where there is a risk of entrapment.
1.16.3.3. Work with hazardous substances.
1.16.3.4. Underground work.
1.16.3.5. Work on, over, under and adjacent to water.
1.16.3.6. Workplaces where there are persons who require physical assistance to be moved.
1.16.4. Design and mark emergency exit routes to provide quick and unimpeded exit.
1.16.5. Revise and update emergency procedures as required, and re-submit to the Departmental Representative.

1.17. Hazardous Products

1.17.1. Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous materials, and regarding labelling and provision of Material Safety Data Sheets (MSDS) acceptable to the Departmental Representative and in accordance with the Canada Labour Code.
1.17.2. Where use of hazardous and toxic products cannot be avoided:
1.17.2.1. Notify Departmental Representative beforehand of the product(s) intended for use. Submit applicable MSDS and WHMIS documents as required.
1.17.2.2. In conjunction with Departmental Representative, schedule to carry out Work during "off hours" when tenants have left the building.
1.17.2.3. Provide adequate means of ventilation as required.

1.18. Electrical Safety Requirements

1.18.1. Comply with authorities and ensure that all electrical personnel are completely familiar with existing and new electrical circuits and equipment and their operation.
1.18.1.1. Before undertaking any work, coordinate required energizing and de-energizing of new and existing circuits with the Departmental Representative
1.18.1.2. Maintain electrical safety procedures and take necessary precautions to ensure safety of all personnel working under this Contract, as well as safety of other personnel on site.
1.18.1.3.

1.19. Electrical Lockout

1.19.1. Develop, implement and enforce use of established procedures to provide electrical lockout and to ensure the health and safety of workers for every event where work must be done on any electrical circuit or facility. Lockout procedures must be available in writing and list step-by-step processes to be followed.

1.19.2. Keep the documents and lockout tags at the site and list in a log book for the full duration of the Contract. Upon request, make such data available for viewing by Departmental Representative or by any authorized safety representative.

1.20. Overloading

1.20.1. Ensure no part of work is subjected to a load which will endanger its safety or will cause permanent deformation.

1.21. Confined Spaces

1.21.1. Carry out work in confined spaces in compliance with all applicable Federal and Provincial regulations.

1.22. Power-Actuated Devices

1.22.1. Use power-actuated devices in accordance with ANSI A10.3 only after receipt of written permission from the Departmental Representative

1.23. Fire Safety and Hot Work

1.23.1. Obtain Departmental Representative's authorization before any welding, cutting or any other hot work operations can be carried out on site

1.23.2. Hot work includes cutting/melting with use of torch, flame heating roofing kettles, or other open flame devices and grinding with equipment which produces sparks

1.24. Fire Safety Requirements

1.24.1. Store oily/paint-soaked rags, waste products, empty containers and materials subject to spontaneous combustion in ULC approved, sealed containers and remove from site on a daily basis

1.24.2. Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire Code of Canada.

1.25. Unforeseen Hazards

1.25.1. Should any unforeseen or peculiar safety-related factor, hazard or condition become evident during performance of the Work, immediately stop Work and notify the Departmental Representative verbally and in writing.

1.26. Posted Documents

1.26.1. Post legible versions of the following documents onsite:

1.26.1.1. Health and Safety Plan.

1.26.1.2. Sequence of Work.
1.26.1.3. Emergency procedures.
1.26.1.4. Site drawing showing project layout, locations of the first-aid station, evacuation route and marshalling station, and the emergency transportation provisions.
1.26.1.5. Notice of Project.
1.26.1.6. Floor plans or Site plans.
1.26.1.7. Notice as to where a copy of the Workers' Compensation Act and Regulations are available on the Site for review by employees and workers.
1.26.1.8. Workplace Hazardous Materials Information System (WHMIS) documents.
1.26.1.9. Material Safety Data Sheets (MSDS).
1.26.1.10. List of names of Joint Health and Safety Committee members, or Health and Safety Representative, as applicable.
1.26.2. Post all Material Safety Data Sheets (MSDS) onsite, in a common area, visible to all workers and in locations accessible to tenants when Work of this Contract includes construction activities adjacent to occupied areas.
1.26.3. Postings should be protected from the weather, and visible from the street or the exterior of the principal construction site shelter provided for workers and equipment, or as accepted by the Departmental Representative.

1.27. Meetings

1.27.1. Attend health and safety preconstruction meeting and all subsequent meetings called by the Departmental Representative.
1.27.2. Ensure all site personnel attend a health and safety toolbox meeting at the beginning of each shift, which must include:
1.27.2.1. Sign-in of all attendees.
1.27.2.2. Planned Work activities and environmental considerations for that shift.
1.27.2.3. Hazards associated with these Work activities, including environmental hazards (eg potential for hypothermia, heat exhaustion, heat stroke).
1.27.2.4. Appropriate job-specific safe work procedures.
1.27.2.5. Required personal protective equipment (PPE).
1.27.2.6. Appropriate emergency procedures.
1.27.2.7. Review recent accidents on Site, including near misses.
1.27.3. Retain records of all health and safety meetings onsite during Work, and retain as corporate records for a minimum of 7 years after Work is completed.

1.28. Correction of Non-Compliance

1.28.1. Immediately address health and safety non-compliance issues identified by the Departmental Representative.
1.28.2. Provide Departmental Representative with written report of action taken to correct non-compliance with health and safety issues identified.
1.28.3. The Departmental Representative may issue a "stop work order" if non-compliance of health and safety regulations is not corrected immediately or within posted time.

1.28.4. Correct non-compliance.

1.29. Hazardous Occurrence Investigation and Reporting

1.29.1. Hazard includes:

1.29.1.1. Any source of potential damage, harm or adverse effects on life, health, property or environment at work. It refers to any biological, chemical, ergonomic, physical, psychosocial and safety factor that is reasonably likely to cause harm or damage to humans, other organisms, or the environment in the absence of its control. Sometimes a hazard is referred to as being the actual harm or the health effect it caused rather than the hazard. For example the disease tuberculosis might be called a hazard by some but in general the tuberculosis-causing bacteria would be considered the “hazard” or “hazardous biological agent”. Exposure to tuberculosis would be the hazardous incident. For types of Hazards refer to Annex 3 of the Standard on Hazard Prevention Program.

1.29.2. Hazardous Occurrence includes:

1.29.2.1. An event occurring at a PSPC managed building or worksite, or through the course of an employee's work that results in, or has the potential to result in, a fatality, injury, illness, exposure to a hazardous substance or property damage or an escapement of a hazardous material. For the purpose of investigating, recording and reporting hazardous occurrences, the following are included under this term: disabling injuries, minor injuries and near-misses.

1.29.3. Hazardous Occurrence Investigation and Reporting Procedures:

1.29.3.1. Includes information regarding the person involved and the basic circumstances surrounding the hazardous occurrence.

1.29.3.2. Provides a detailed and thorough description of the hazardous occurrence and the sequence of events.

1.29.3.3. Indicates corrective measures that have been taken since the occurrence.

1.29.3.4. Requires the appointment of a qualified investigator.

1.29.3.5. Provides recommendations for additional corrective measures, if required.

1.29.4. Fatal or Serious Accidents Procedures:

1.29.4.1. Call (250) 774-2777 to advise the police organization having jurisdiction to secure the scene and investigate the matter.

1.29.4.2. Advise the Departmental Representative of the fatality or serious accident within 1 hour.

1.29.4.3. No investigation will be conducted at the scene until the police service having jurisdiction has released the scene.

1.29.4.4. No person shall, unless authorized to do so, remove or in any way interfere with or disturb any wreckage, article or thing related to the incident except to the extent necessary to: save a life, prevent injury or relieve human suffering in the vicinity; maintain an essential public service; or prevent unnecessary damage to or loss of property.

1.30. Utility Clearance

1.30.1. The Contractor is solely responsible for utility clearance.

1.30.2. The Contractor will not rely upon Drawings or other information provided with utility locations.

1.31. Personal Protective Equipment Program

1.31.1. Submit Personal Protective Equipment (PPE) program to the Departmental Representative addressing:

1.31.1.1. Donning and doffing procedures.

1.31.1.2. PPE selection based upon Site hazards.

1.31.1.3. PPE use and limitations of equipment.

1.31.1.4. Work mission duration, PPE maintenance and storage.

1.31.1.5. PPE decontamination and disposal.

1.31.1.6. PPE inspection procedures prior to, during, and after use.

1.31.1.7. Evaluation of effectiveness of PPE program, and limitations during temperature extremes, and other appropriate medical considerations.

1.31.1.8. Medical surveillance requirements for personnel assigned to work at Site.

1.31.1.9. Frequency and types of air monitoring, personnel monitoring, and environmental sampling techniques and instrumentation to be used, including methods of maintenance and calibration of monitoring and sampling equipment.

1.31.1.10. Site control measures employed at Site including site map, site work zones, use of 'buddy system', site communications including site security, alerting means for emergencies, standard operating procedures or safe work practices, and identification of nearest medical assistance.

1.31.1.11. Decontamination procedures for both personnel and equipment.

1.31.1.12. Emergency response requirements addressing: pre-emergency planning, personnel roles, lines of authority and communication, emergency recognition and prevention, safe distances and places of refuge, site security and control, evacuation routes and procedures, decontamination procedures not covered under decontamination section, emergency medical treatment and first aid, emergency alerting and response procedures, critique of response and follow-up, PPE and emergency equipment, site topography, layout, prevailing weather conditions, and procedures for reporting incidents to local, provincial, or federal agencies.

1.31.1.13. Written respiratory protection program for project activities.

1.31.1.14. Procedures dealing with heat and/or cold stress.

1.31.1.15. Spill containment program if waste material is generated, excavated, stored, or managed onsite.

1.32. Offsite Contingency and Emergency Response Plan

1.32.1. Prior to commencing Work involving handling of hazardous materials, develop offsite Contingency and Emergency Response Plan.

1.32.2. Plan must provide immediate response to serious site occurrence such as explosion, fire, or migration of significant quantities of toxic or hazardous material from Site.

1.33. Personnel Health, Safety, and Hygiene

1.33.1. Training: ensure personnel entering Site are trained in accordance with specified personnel training requirements. Training session must be completed by Health and Safety Officer.

1.33.2. Levels of Protection: establish levels of protection for each Work area based on planned activity and location of activity.

1.33.3. Personal Protective Equipment:

1.33.3.1. Furnish site personnel with appropriate PPE as specified above. Ensure that safety equipment and protective clothing is kept clean and maintained.

1.33.4. Develop protective equipment usage procedures and ensure that procedures are strictly followed by site personnel; include following procedures as minimum:

1.33.4.1. Ensure prescription eyeglasses worn are safety glasses and do not permit contact lenses onsite within work zones.

1.33.4.2. Ensure footwear is steel-toed safety shoes or boots and is covered by rubber overshoes when entering or working in potentially contaminated work areas.

1.33.4.3. Dispose of or decontaminate PPE worn onsite at end of each workday.

1.33.4.4. Decontaminate reusable PPE before reissuing.

1.33.4.5. Ensure site personnel have passed respirator fit test prior to entering potentially contaminated work areas.

1.33.4.6. Ensure facial hair does not interfere with proper respirator fit.

1.33.5. Respiratory Protection:

1.33.5.1. Provide site personnel with extensive training in usage and limitations of, and qualitative fit testing for, air purifying and supplied-air respirators in accordance with specified regulations.

1.33.5.2. Develop, implement, and maintain respirator program.

1.33.5.3. Monitor, evaluate, and provide respiratory protection for site personnel.

1.33.5.4. Ensure levels of protection as listed have been chosen consistent with site-specific potential airborne hazards associated with major contaminants identified onsite.

1.33.5.5. In absence of additional air monitoring information or substance identification, retain an industrial hygiene specialist to determine minimum levels of respiratory protection required.

1.33.5.6. Immediately notify Departmental Representative when level of respiratory protection required increases.

1.33.5.7. Ensure appropriate respiratory protection during Work activities. As minimum requirement, ensure that persons entering potentially contaminated work areas are supplied with and use appropriate respiratory protection.

1.33.6. Heat Stress/Cold Stress: implement heat stress or cold stress monitoring program as applicable and include in site-specific Health and Safety Plan.
1.33.7. Personnel Hygiene and Personnel Decontamination Procedures. Provide minimum as follows:
1.33.7.1. Suitable containers for storage and disposal of used disposable PPE.
1.33.7.2. Potable water and suitable sanitation facility.
1.33.8. Emergency and First-Aid Equipment:
1.33.8.1. Locate and maintain emergency and first-aid equipment in appropriate location onsite including first-aid kit to accommodate number of site personnel; portable emergency eye wash; two 9 kg ABC type dry chemical fire extinguishers.
1.33.9. Site Communications:
1.33.9.1. Identify, supply, and implement appropriate communication devices for Site and post emergency contact numbers near devices.
1.33.9.2. Ensure personnel use of "buddy" system and develop hand signal system appropriate for site activities.
1.33.9.3. Provide employee alarm system to notify employees of site emergency situations or to stop Work activities if necessary.
1.33.9.4. Furnish selected personnel with 2-way radios and satellite phones.
1.33.9.5. Safety Meetings: conduct mandatory daily safety meetings for personnel, and additionally as required by special or Work-related conditions; include refresher training for existing equipment and protocols, review ongoing safety issues and protocols, and examine new site conditions as encountered. Hold additional safety meetings on as-needed basis.

2. PART 2 - PRODUCTS

2.1. Not Used
2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used
3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Environmental Protection Plan: within 5 Working Days after Contract award and prior to mobilization to Site, Submit a plan detailing protection of the environment. Include:

1.3.1.1. Comprehensive overview of known or potential environmental issues to be addressed during Work.

1.3.1.2. Identify requirements that plan complies with. Includes: permits, certificates, approvals, or any other form of authorizations; other federal, provincial, or municipal requirements; and in accordance with the Contract.

1.3.1.3. Names and qualifications of persons responsible for ensuring adherence to Environmental Protection Plan.

1.3.1.4. Names and qualifications of persons responsible for manifesting material to be removed from Site.

1.3.1.5. Names and qualifications of persons responsible for training Site personnel.

1.3.1.6. Description of Environmental Protection personnel training program.

1.3.1.7. Work Area Plan showing proposed activity in each portion of areas, such as exclusion zone(s), decontamination zone(s) and clean zone(s), and identifying areas of limited use or non-use. Ensure plan includes measures for marking limits of use areas and methods for protection of features to be preserved within authorized Work areas.

1.3.1.8. Drawings showing locations of proposed temporary excavations or embankments for haul roads, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials including methods to control runoff and to contain materials onsite.

1.3.1.9. Historical, Archaeological, Cultural Resources, Biological Resources and Wetlands Plan that defines procedures for identifying and protecting historical, archaeological, cultural resources, biological resources and wetlands. Include procedures if previously unknown historical, archaeological, cultural, and biological resources are discovered during Work.

1.3.1.10. Noise Control Plan identifying methods and procedures for preventing, monitoring, and controlling noise for compliance with: applicable permits, certificates, approvals, or any other form of authorizations; other federal, provincial, or municipal requirements; and in accordance with the Contract. Include thresholds and procedures if: noise does not comply with appropriate levels, or if there are public complaints.

1.3.1.11. Vibration Control Plan identifying methods and procedures for preventing, monitoring, and controlling vibration for compliance with: applicable permits, certificates, approvals, or any other form of authorizations; other federal, provincial, or municipal requirements; and in accordance with the Contract. Include thresholds and procedures if: vibration does not comply with appropriate levels, there are public complaints, or if onsite or offsite damage occurs

1.3.1.12. Traffic Control Plans including measures to reduce erosion of temporary roadbeds by construction traffic, especially during wet weather. Ensure plans include measures to prevent mud transported onto public roads by vehicles or runoff, and mitigation measures if mud is transported onto public roads by vehicles or runoff. Vehicles and vehicle traffic must comply with all federal, provincial, and municipal laws and regulations.

1.3.1.13. Contamination Prevention Plan identifying hazardous, deleterious or regulated substances to be used onsite; intended actions to prevent introduction of such materials into air, water, or ground; and detailing provisions for compliance with federal, provincial, and municipal laws and regulations for storage and handling of these materials.

1.3.1.14. Spill Control Plan including procedures, instructions, and reports to be used in event of spill of hazardous, deleterious or regulated substances. Identify locations and contents of spill kits.

1.3.1.15. Communications Plan identifying emergency contact list and conditions for implementing emergency contact. Emergency contact to include: Contractor emergency response team including Superintendent; Departmental Representative and alternate, and other contractor(s) and individuals as instructed by the Departmental Representative; and federal, provincial, and municipal emergency contacts.

1.3.1.16. Air Pollution Control Plan detailing provisions to assure that contaminants, dust, debris, materials, and trash, are contained onsite. Include procedures, in accordance with the Contract, if air pollution does not comply with appropriate levels, there are public complaints, or if onsite or offsite damage occurs.

1.3.1.17. Non-Contaminated Material Disposal Plan identifying methods and locations for solid waste disposal including clearing waste. Include name, location, provincial or territorial authorizations, and evidence of compliance with municipal zoning and bylaws of Landfill.

1.3.1.18. Wastewater Management Plan identifying methods and procedures for management and discharge of Contaminated and Non-Contaminated Water including surface waters and wastewater which are directly derived from construction activities, such as concrete curing water, clean-up water, dewatering of groundwater, disinfection water, hydrostatic test water, and water used in flushing of lines. Include method of treatment and disposal.

1.3.1.19. Wastewater Disposal Plan identifying methods and locations for solid waste disposal including clearing waste. Include name, location, provincial or territorial authorizations, and evidence of compliance with Municipal zoning and bylaws of Disposal Facility and/or copy of municipal permit to discharge to sewer system

1.3.1.20. Erosion and Sediment Control Plan identifying type and location of erosion and sediment controls to be provided including monitoring and reporting requirements to assure that control measures are in compliance with erosion and sediment control plan, federal, provincial, and municipal laws and regulations.

1.3.2. Pollution Control Procedures Modification: immediately when pollution control procedures are inadequate, as instructed by the Departmental Representative, Submit modified procedures to resolve problem.

1.3.3. Pollution Control Remediation: immediately when soil, sediment or water contaminated by Contractor's activities are inadequate as instructed by the Departmental Representative, Submit remediation procedures.

1.3.4. Dust and Particulate Control Procedures Modification: immediately when dust and particulate control measures are inadequate as instructed by the Departmental Representative, Submit modified procedures to resolve problem.

1.4. Fires

1.4.1. Fires and burning of rubbish onsite not permitted.

1.5. Cleaning

1.5.1. Maintain cleanliness of Work and surrounding Site to comply with federal, provincial, and municipal fire and safety laws, ordinances, codes, and regulations applicable to the performance of the Work.

1.5.2. Coordinate cleaning operations with disposal operations to prevent accumulation of dust, dirt, debris, rubbish, and waste materials.

1.5.3. Ensure cleanup of the Work areas each day after Final Completion of Work.

1.6. Site Clearing and Plant Protection

1.6.1. Minimize stripping of Topsoil and vegetation.

1.6.2. Restrict tree and plant removal to areas in accordance with the Contract or as instructed by the Departmental Representative. Protect all other trees and plants onsite and offsite.

1.6.3. Salvage all trees and plants to be removed in accordance with the Contract or as instructed by the Departmental Representative.

1.6.4. Wrap in burlap, trees and shrubs adjacent to construction Work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of 2 m minimum.

1.6.5. Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones.

1.7. Vibration

1.7.1. Maintain acceptable vibration levels as to not damage structures adjacent to the Site as a result of the Work.

1.8. Maintenance of Public Roads

1.8.1. Prevent tracking or spilling of debris or material onto public roads.
1.8.2. Immediately sweep or scrape up debris or material on public roads.
1.8.3. Clean public roads within a 200 m radius of the Site entrance at least once per shift.

1.9. Pollution Control

1.9.1. Pollution includes spills or other releases from Contractor's activities that could potentially contaminate soil, sediment, water, and atmosphere from discharge of hazardous, deleterious or regulated substances, including from equipment and material handling.
1.9.2. Provide sequence, methods and means, and facilities to prevent spills or releases.
1.9.2.1. Maintain temporary erosion and pollution control features.
1.9.2.2. Do not store fuel onsite other than tanks forming part of the equipment.
1.9.2.3. Control emissions from equipment and plant to meet applicable authorities' emission requirements.
1.9.2.4. Contractor to regularly inspect all machinery on the Site to ensure it is in good repair and free of leaks.
1.9.3. Inadequate procedures:
1.9.3.1. Stop relevant Work if procedures are inadequate to prevent spills or other releases, or when monitoring indicates that release equals or exceeds regulated or levels in accordance with the Contract.
1.9.3.2. Submit procedures proposed to resolve problem.
1.9.3.3. Make necessary changes to operations prior to resuming excavation, handling, processing, or other Work that can cause spills or other releases.
1.9.3.4. Departmental Representative can stop relevant Work at any time when Contractor's Work procedures are inadequate to prevent spills or other releases, or when monitoring indicates that release equals or exceeds regulated or levels in accordance with the Contract. Do not proceed with stopped Work until corrections accepted by Departmental Representative.
1.9.4. Be prepared to intercept, cleanup, and dispose of spills or other releases that can occur whether on land or water.
1.9.5. Spill kits and containment are to be maintained onsite and ready for deployment in the event of spills or other releases.
1.9.5.1. Spill kits are to include sufficient quantities of absorbent material, containers, booms, shovels and other tools, and personal protective equipment.
1.9.5.2. Spill response materials must be compatible with type of equipment being used or type of material being handled.
1.9.5.3. Spill kits are to be in close proximity to machinery.

1.9.5.4. During the Work there are to be trained and qualified personnel available that are ready to deploy spill kits when necessary.

1.9.6. Take immediate action using available resources to contain and mitigate effects on environment and persons from spill or release.

1.9.7. Promptly report spills and releases potentially causing damage to environment to:

1.9.7.1. Authority having jurisdiction or interest in spill or other release including conservation authority, water supply authorities, drainage authority, road authority, and fire department.

1.9.7.2. Contractor emergency response team including Superintendent

1.9.7.3. Departmental Representative and other contractor(s) and individuals as instructed by the Departmental Representative.

1.9.8. Departmental Representative can collect samples for chemical analyses prior to, during, and upon Final Completion of Work to monitor potential pollution caused by Contractor's activities. Assist Departmental Representative in collection of samples.

1.9.9. Remediation of soil, sediment or water contaminated by Contractor's activities.

1.9.9.1. Remediate all soil, sediment or water contaminated by Contractor's activities associated with the Work onsite and offsite.

1.9.9.2. Remediation includes excavation, pumping, testing, transport, treatment and disposal as appropriate for the type of contamination incurred, and at a minimum in accordance with the Contract.

1.9.9.3. Submit procedures for remediating soil, sediment or water contaminated by Contractor's activities.

1.9.9.4. Remediate as instructed by the Departmental Representative.

1.9.9.5. Contractor is responsible for any additional investigation, testing, and assessments required as acceptable to the Departmental Representative.

1.10. Dust and Particulate Control

1.10.1. Execute Work by methods to minimize raising dust from construction operations.

1.10.2. Prevent fugitive dust from the Site from interfering with onsite and offsite uses.

1.10.3. Prevent dust from spreading to neighbouring properties.

1.10.4. Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads, excavations, and stockpiles.

1.10.5. Implement and maintain dust and particulate control measures immediately as instructed by the Departmental Representative during Work and in accordance with regulations and in accordance with the Contract.

1.10.6. Provide positive means to prevent airborne dust from dispersing into atmosphere. Use fresh (non-saline) water for dust and particulate control.

1.10.7. As minimum, use appropriate covers on vehicles, including trucks, barges, and trains, hauling fine or dusty material. Use watertight vehicles to haul wet materials.

1.10.8. Inadequate procedures:

1.10.8.1. Stop relevant Work if dust and particulate control is not sufficient for controlling dusts and particulates into atmosphere, or when monitoring indicates that dust or particulate levels equal or exceed regulated or levels in accordance with the Contract.

1.10.8.2. Submit procedures proposed to resolve problem.

1.10.8.3. Make necessary changes to operations prior to resuming excavation, handling, processing, or other Work that can cause release of dusts or particulates.

1.10.8.4. Departmental Representative can stop relevant Work at any time when Contractor's Work procedures are inadequate to prevent release of dusts or particulates, or when monitoring indicates that dust or particulate levels equal or exceed regulated or levels in accordance with the Contract. Do not proceed with stopped Work until corrections accepted by Departmental Representative.

1.11. Non-Contaminated Material Removal

1.11.1. Remove all Non-Contaminated Material within Work areas in accordance with the Contract and as instructed by the Departmental Representative.

1.11.2. Assume ownership of, and be responsible for, Non-Contaminated Material once it is loaded on a vehicle, barge, or other vessel for transport offsite.

1.11.3. Remove surplus materials and temporary facilities from Site.

1.11.4. Dispose waste offsite.

1.11.5. Do not burn or bury any waste onsite.

1.11.6. Do not discharge wastes into streams or waterways.

1.11.7. Do not dispose of volatile or hazardous materials such as mineral spirits, oil, or paint thinner in storm or sanitary drains.

1.11.8. Dispose of following materials at appropriate Landfill provided by Contractor and accepted by Departmental Representative:

1.11.8.1. Non-Contaminated Material.

1.11.8.2. Disposable PPE.

1.12. Sewage Wastewater

1.12.1. Store Sewage Wastewater from toilet facilities with wastewater from handbasins, and/or showers, for ultimate disposal.

1.12.2. Provide, operate, and maintain Sewage Wastewater storage tanks to store Sewage Wastewater.

1.12.3. Transport and dispose of Sewage Wastewater at a Disposal Facility, or discharge to municipal sanitary sewer system in compliance with Municipal requirements, as accepted by Departmental Representative.

1.12.4. Discharges: comply with applicable discharge limitations and requirements; do not discharge Sewage Wastewater to Site sewer systems that do not conform to or are in violation of such limitations or requirements; and obtain approval prior to discharge of Sewage Wastewater.

1.13. Wastewater Control

1.13.1. Dewater various parts of Work including, without limitation, excavations, structures, foundations, and Work areas.

1.13.2. Employ construction methods, plant procedures, and precautions that ensure Work, including excavations, are stable, free from disturbance, and dry.

1.13.3. Direct surface waters that have not contacted potentially Contaminated Materials to surface drainage systems.

1.13.4. Control surface drainage including ensuring that gutters are kept open, wastewater is not allowed across or over pavements or sidewalks except through accepted pipes or properly constructed troughs, and runoff from unstabilized areas is intercepted and diverted to suitable outlet.

1.14. Non-Contaminated Water Disposal

1.14.1. Dispose of Non-Contaminated Water in manner not injurious to public health or safety, to property, or to any part of Work completed or under construction.

1.14.2. Control disposal or runoff of Non-Contaminated Water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.14.3. Ensure pumped Non-Contaminated Water into waterways, sewer or drainage systems is free of suspended materials. Provide flocculation tanks, settling basins, or other treatment facilities to remove suspended solids or other materials before discharging to storm sewers, watercourses or drainage areas

1.14.4. Obtain permits to discharge Non-Contaminated Water to environment or Municipal sewers.

1.14.5. Do not discharge water which may have come in contact with potentially Contaminated Material or otherwise be Contaminated directly offsite to the environment or to municipal sewers.

1.15. Erosion and Sediment Control

1.15.1. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas, from stockpiles, staging areas, and other Work areas. Prevent erosion and sedimentation.

1.15.2. Minimize amount of bare soil or sediment exposed at one time. Stabilize disturbed soil or sediment as quickly as practical. Strip vegetation, regrade, or otherwise develop to minimize erosion. Remove accumulated sediment resulting from construction activity from adjoining surfaces, drainage systems, and water courses, and repair damage caused by soil erosion and sedimentation as instructed by the Departmental Representative.

1.15.3. Provide and maintain temporary erosion and sediment control measures.

1.15.3.1. Temporary erosion and sediment control measures are required to prevent erosion and migration of silt, mud, sediment, and other debris offsite or to other areas of Site where damage might result, or that might otherwise be required by laws and regulations.

1.15.3.2. Temporary erosion and sediment control measures include: silt fences, hay or straw bales, ditches, geotextiles, drains, berms, terracing, riprap, temporary drainage piping, vegetative cover, dikes, mulching, sediment traps, detention and retention basins, grading, planting, retaining walls, culverts, pipes, guardrails, temporary roads, and other measures appropriate to specific condition.

1.15.3.3. Temporary improvements must remain in place and in operation as necessary or until otherwise instructed by the Departmental Representative

1.15.3.4. Place silt fences and/or hay or straw bales in ditches to prevent sediment from escaping from ditch terminations.

1.15.3.5. Do not construct bale barriers and silt fence in flowing streams or in swales.

1.15.3.6. Check erosion and sediment control measures weekly after each rainfall; during prolonged rainfall check daily.

1.15.3.7. Bales and/or silt fence can be removed at beginning of Working Day, replace at end of Working Day.

1.15.3.8. Repair damaged bales, end runs, and undercutting beneath bales.

1.15.3.9. Unless instructed by the Departmental Representative, remove temporary erosion and sediment control devices upon Final Completion of Work. Temporary erosion and sediment control devices once removed become property of Contractor.

1.15.4. Whenever sedimentation is caused by stripping vegetation, regrading, or other development, remove it from adjoining surfaces, drainage systems, and watercourses, and repair damage as quickly as possible.

1.15.5. Construct fill areas to prevent erosion.

1.15.6. Do not disturb existing embankments or embankment protection in accordance with the Contract.

1.15.7. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

1.15.8. If soil, sediment and debris from Site accumulate in low areas, storm sewers, roadways, gutters, ditches, or other areas where it is undesirable, remove accumulation and restore area to original condition, as instructed by the Departmental Representative.

1.16. Work In or Adjacent to Waterways

1.16.1. Approvals and Practices:

1.16.1.1. Obtain Discharge Approval prior to commencing work which may impact waterways.

1.16.1.2. Comply with Fisheries Act Authorization and other relevant authorizations and in accordance with the Contract.

1.16.1.3. Follow practices described in Fisheries and Oceans Canada (September 1993) *Land Development Guidelines for the Protection of Aquatic Habitat*.

1.16.1.4. Follow practices described in BC Ministry of Environment (March 2004) *Standards and Best Practices for Instream Works*.

1.16.2. Timing

1.16.2.1. Time work in water to respect timing windows to protect fish, including their eggs, juveniles, spawning adults and/or the organisms upon which they feed.

1.16.2.2. Minimize duration of in-water work.

1.16.2.3. Conduct instream work during periods of low flow, or at low tide, to further reduce the risk to fish and their habitat or to allow work in water to be isolated from flows.

1.16.2.4. Schedule work to avoid wet, windy and rainy periods that may increase erosion and sedimentation.

1.16.3. Site Selection

1.16.3.1. Design and plan activities and works in waterbody such that loss or disturbance to aquatic habitat is minimized and sensitive spawning habitats are avoided.

1.16.3.2. Design and construct approaches to the waterbody such that they are perpendicular to the watercourse to minimize loss or disturbance to riparian vegetation.

1.16.3.3. Avoid building structures on meander bends, braided streams, alluvial fans, active floodplains or any other area that is inherently unstable and may result in erosion and scouring of the stream bed or the built structures.

1.16.3.4. Undertake all instream activities in isolation of open or flowing water to maintain the natural flow of water downstream and avoid introducing sediment into the watercourse.

1.16.4. Contaminant and Spill Management

1.16.4.1. Plan activities near water such that materials such as paint, primers, blasting abrasives, rust solvents, degreasers, grout, poured concrete or other chemicals do not enter the watercourse.

1.16.4.2. Develop a response plan that is to be implemented immediately in the event of a sediment release or spill of a deleterious substance and keep an emergency spill kit on site.

1.16.4.3. Ensure that building material used in a watercourse has been handled and treated in a manner to prevent the release or leaching of substances into the water that may be deleterious to fish.

1.16.5. Erosion and Sediment Control

1.16.5.1. Develop and implement an Erosion and Sediment Control Plan for the site that minimizes risk of sedimentation of the waterbody during all phases of the project. Maintain erosion and sediment control measures until all disturbed ground has been permanently stabilized, suspended sediment has resettled to the bed of the waterbody or settling basin and runoff water is clear.

1.16.6. Erosion and Sediment Control Plan includes:

1.16.6.1. Installation of effective erosion and sediment control measures before starting work to prevent sediment from entering the water body.

1.16.6.2. Measures for managing water flowing onto the site, as well as water being pumped/diverted from the site such that sediment is filtered out prior to the water entering a waterbody. This includes pumping/diversion of water to a vegetated area, construction of a settling basin or other filtration system.

1.16.6.3. Site isolation measures (e.g., silt boom or silt curtain) for containing suspended sediment where in-water work is required (e.g., dredging, underwater cable installation).

1.16.6.4. Measures for containing and stabilizing waste material (e.g., dredging spoils, construction waste and materials, commercial logging waste, uprooted or cut aquatic plants, accumulated debris) above the high water mark of nearby waterbodies to prevent re-entry.

1.16.6.5. Regular inspection and maintenance of erosion and sediment control measures and structures during the course of construction.

1.16.6.6. Repairs to erosion and sediment control measures and structures if damage occurs.

1.16.6.7. Removal of non-biodegradable erosion and sediment control materials once site is stabilized.

1.16.7. Shoreline/Bank Re-vegetation and Stabilization

1.16.7.1. Clearing of riparian vegetation should be kept to a minimum: use existing trails, roads or cut lines wherever possible to avoid disturbance to the riparian vegetation and prevent soil compaction.

1.16.7.2. When practicable, prune or top the vegetation instead of grubbing/uprooting.

1.16.7.3. Minimize the removal of natural woody debris, rocks, sand or other materials from the banks, the shoreline or the bed of the waterbody below the ordinary high water mark. If material is removed from the waterbody, set it aside and return it to the original location once construction activities are completed.

1.16.7.4. Immediately stabilize shoreline or banks disturbed by any activity associated with the project to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site.

1.16.7.5. Restore bed and banks of the waterbody to their original contour and gradient; if the original gradient cannot be restored due to instability, a stable gradient that does not obstruct fish passage should be restored.

1.16.7.6. If replacement rock reinforcement/armouring is required to stabilize eroding or exposed areas, then ensure that appropriately-sized, clean rock is used; and that rock is installed at a similar slope to maintain a uniform bank/shoreline and natural stream/shoreline alignment.

1.16.7.7. Remove all construction materials from site upon project completion.

1.16.8. Fish Protection

1.16.8.1. Ensure that all in-water activities, or associated in-water structures, do not interfere with fish passage, constrict the channel width, or reduce flows.

1.16.8.2. Retain a qualified environmental professional to ensure applicable permits for relocating fish are obtained and to capture any fish trapped within an isolated/enclosed area at the work site and safely relocate them to an appropriate location in the same waters. Fish may need to be relocated again, should flooding occur on the site.

1.16.8.3. Screen any water intakes or outlet pipes to prevent entrainment or impingement of fish. Entrainment occurs when a fish is drawn into a water intake and cannot escape. Impingement occurs when an entrapped fish is held in contact with the intake screen and is unable to free itself.

1.16.8.4. Avoid using explosives in or near water. Use of explosives in or near water produces shock waves that can damage a fish swim bladder and rupture internal organs. Blasting vibrations may also kill or damage fish eggs or larvae.

1.16.9. Operation of Machinery

1.16.9.1. Ensure that machinery arrives on site in a clean condition and is maintained free of fluid leaks, invasive species and noxious weeds.

1.16.9.2. Whenever possible, operate machinery on land above the high water mark, on ice, or from a floating barge in a manner that minimizes disturbance to the banks and bed of the waterbody.

1.16.9.3. Limit machinery fording of the watercourse to a one-time event (i.e., over and back), and only if no alternative crossing method is available. If repeated crossings of the watercourse are required, construct a temporary crossing structure.

1.16.9.4. Use temporary crossing structures or other practices to cross streams or waterbodies with steep and highly erodible (e.g., dominated by organic materials and silts) banks and beds. For fording equipment without a temporary crossing structure, use stream bank and bed protection methods (e.g., swamp mats, pads) if minor rutting is likely to occur during fording.

1.16.9.5. Wash, refuel and service machinery and store fuel and other materials for the machinery in such a way as to prevent any deleterious substances from entering the water

1.17. Noncompliance

1.17.1. Departmental Representative will inform Contractor in writing of observed noncompliance with federal, provincial or municipal environmental laws, regulations, permits, or other environmental procedure violations.

1.17.2. After receipt of notice, inform the Departmental Representative of the proposed corrective action. Corrective action will be subject to acceptance of Departmental Representative.

1.17.2.1. Do not take action until after receipt of written acceptance.

1.17.3. Departmental Representative will issue stop order of Work until satisfactory corrective action has been taken.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Not Used.

1.4. Laws, Regulations, Permits

1.4.1. Generally, provincial and municipal laws, regulations, bylaws and other requirements do not apply on federal lands, activities or undertakings. Soil and other materials that are removed from federal lands may become subject to provincial or municipal laws and regulations.

1.4.2. Provincial or municipal standards may be used in relation to federal lands only as guidelines for the purpose of establishing remediation goals and objectives. The term "standards" is used in this part in order to maintain consistency in terminology throughout this document, and does not imply that standards contained in provincial or municipal laws and regulations apply on Federal lands, activities or undertakings.

1.4.3. Comply with certificates, licenses and other permits enforced at the location concerned required by regulatory federal, provincial or municipal authorities to complete the Work that have already been obtained.

1.4.4. Obtain and pay for certificates, licenses and other permits enforced at the location concerned required by regulatory federal, provincial or municipal authorities to complete the Work that have not already been obtained or that are required to be amended.

1.4.5. Provide applicable authorities with plans and information required for issue of acceptance certificates.

1.4.6. Furnish inspection certificates in evidence that the Work installed conforms with the requirements of the authority having jurisdiction.

1.5. Codes, Bylaws, Standards

1.5.1. Meet or exceed requirements of Contract, standards, and codes applicable to the performance of the Work and referenced documents.

1.5.2. In any case of conflict or discrepancy, the most stringent requirements will apply.

1.5.3. Perform Work in accordance with the *National Building Code* of Canada (NBC), and other requirements or codes in accordance with the Contract, construction standards and/or any other code or bylaw applicable to the performance of the Work.

1.5.4. Certificates, licenses and other permits enforced at the location concerned required by regulatory federal, provincial or municipal authorities to complete the Work: see 01 11 00.

1.5.5. Comply with all attachments, references, and reports relevant to Work, including environmental protection.

1.6. Smoking Environment

1.6.1. Smoking on the Site is not permitted.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Not Used.

1.4. Quality of Work

1.4.1. Ensure that quality workmanship is performed through use of skilled tradesmen, under supervision of qualified journeyman, or Qualified Professional.

1.4.2. Meet or exceed standards set out in the National Building Code of Canada as applicable for workmanship, erection methods and procedures.

1.4.3. In cases of dispute, perform Work to standard or quality in accordance with any decisions by the Departmental Representative.

1.4.4. Follow Departmental Representative's instructions to meet the Quality of Work in accordance with the Contract at no increase to the Contract Amount and no increase to Extension of Time for completion of the Work. Quality of Work includes addressing comments on Submittals, modifying environmental procedures, and preventing or remediating contaminated material spills.

1.5. Quality Management

1.5.1. Be responsible for all Quality Assurance and Quality Control during the performance of the Work.

1.5.2. Quality Assurance and Quality Control includes monitoring, inspecting, testing, documenting and reporting the means, methods, materials, workmanship, processes, and products of all aspects of the Work, including design, construction, and management as necessary to ensure conformance with the Contract.

1.5.3. Assist Departmental Representative in quality audit inspections and submit all indicated information within 5 Working Days of collection or as instructed.

1.6. Inspection

1.6.1. Allow Departmental Representative access to Work. If part of Work is in preparation at locations other than Site, allow access to such Work whenever it is in progress. Work at locations other than Site includes offsite Transportation (eg transfer stations), Treatment, and Disposal Facilities.

1.6.2. Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by Departmental Representative instructions, or law of Site.

1.6.3. If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.

1.6.4. Departmental Representative will order part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction.

1.7. Independent Inspection Agencies

1.7.1. Independent Inspection/Testing Agencies will be engaged by Departmental Representative for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Departmental Representative.

1.7.2. Provide equipment required for executing inspection and testing by appointed agencies.

1.7.3. Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.

1.7.4. If defects are revealed during inspection and/or testing, appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by Departmental Representative at no cost to Departmental Representative. Pay costs for retesting and reinspection.

1.8. Access to Work

1.8.1. Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.

1.8.2. Co-operate to provide reasonable facilities for such access.

1.9. Procedures

1.9.1. Notify appropriate agency and Departmental Representative in advance of requirement for tests, in order that attendance arrangements can be made.

1.9.2. Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in orderly sequence to not cause delays in Work.

1.9.3. Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

1.10. Rejected Work

1.10.1. Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Departmental Representative as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.

1.10.2. Make good other Contractor's work damaged by such removals or replacements promptly.

1.10.3. If in opinion of Departmental Representative it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents,

PSPC will deduct from Contract Price difference in value between Work performed and that called for by Contract Documents, amount of which will be determined by Departmental Representative.

1.11. Reports

1.11.1. Submit 2 copies of inspection and test reports to [Departmental Representative.
1.11.2. Provide copies to subcontractor of work being inspected or tested.

1.12. Tests and Mix Designs

1.12.1. Furnish test results and mix designs as requested.
1.12.2. Test results must be signed by Qualified Professional.
1.12.3. The Departmental Representative may require, and pay for, additional inspection and testing services not included above.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Site Layout: within 10 Working Days after Contract award and prior to mobilization to Site, Submit Site Layout drawings showing existing conditions and facilities, construction facilities and temporary controls provided by Contractor. Include:

1.3.1.1. Equipment and personnel decontamination areas.

1.3.1.2. Means of ingress, egress and temporary traffic control.

1.3.1.3. Equipment and material staging areas.

1.3.1.4. Stockpile areas and construction details, including base preparation and water control features.

1.3.1.5. Exclusion areas, contaminant handling areas, and other areas identified in Contractor's site-specific Health and Safety Plan and Environmental Protection Plan.

1.3.1.6. Grading, including contours, required to construct temporary facilities.

1.3.1.7. Location of all temporary facilities including: Contaminated Water Treatment Plant, truck wash and decontamination units, office trailers, modular camp structures, parking, storage, environmental monitoring stations, above ground and underground utilities, and temporary facilities and roads.

1.3.2. Signs: at least 5 Working Days prior to posting, Submit any signs viewable by public.

1.4. Utilities

1.4.1. Power is not available at existing Site and must be supplied at the Contractor’s expense.

1.4.2. Water supply is not available at existing Site and must be supplied at the Contractor’s expense.

1.5. Fire Protection

1.5.1. Provide and maintain temporary fire protection equipment during performance of Work required by governing codes, regulations and bylaws.

1.6. Access and Delivery

1.6.1. Only the designated entrance in accordance with the Contract can be used for access to Site.

1.6.1.1. Maintain for duration of Contract.

1.6.1.2. Make good damage resulting from Contractor's use.

1.6.2. Use of the Site will be granted to the Contractor through the Departmental Representative.

1.7. Installation and Removal

1.7.1. Prepare site plan indicating proposed location and dimensions of area to be fenced and used by Contractor, number of trailers to be used, avenues of ingress/egress to fenced area and details of fence installation.

1.7.2. Identify areas which have to be gravelled to prevent tracking of mud.

1.7.3. Indicate use of supplemental or other staging area.

1.7.4. Provide construction facilities in order to execute work expeditiously.

1.7.5. Provide temporary utilities in order to execute Work expeditiously.

1.7.6. Remove from Site all such Work after use.

1.8. Site Storage/Loading

1.8.1. Confine work and operations of employees in accordance with the Contract. Do not unreasonably encumber premises with products.

1.8.2. Storage space must be limited to the Site.

1.8.3. Do not load or permit to load any part of Work with weight or force that will endanger Work.

1.9. Construction Parking

1.9.1. Parking of private vehicles will not be permitted on Site.

1.9.2. Provide and maintain adequate access to project site.

1.10. Security

1.10.1. Provide and pay for responsible security personnel to guard site and contents of site after working hours and during holidays.

1.10.2. Control access to Site and maintain a log of all personnel onsite. No non-Work visitors allowed without prior written consent of Departmental Representative

1.11. Departmental Representative and Consultant Offices

1.11.1. Provide office facilities for the exclusive use of the Departmental Representative and their consultants with the following:

1.11.1.1. Two work stations within the Factory fabricated modular double wide units in accordance with the Contract.

1.11.1.2. Work stations must include; 1 desk (minimum size 120 cm x 50 cm, minimum height 70 cm), 1 swivel desk chair (minimum load requirement 100 kg), 1 bookshelf (minimum 3 shelves with a minimum shelf height of 32 cm), 1 locking filing cabinet (minimum dimensions 50 cm x 39 cm x 60 cm), 1 garbage can, and 1 recycling bin.
1.11.1.3. Building envelope: watertight construction.
1.11.1.4. Completed building: exterior to interior minimum sound attenuation of STC 30.
1.11.1.5. Building interior environment: heated and cooled to maintain temperature of 20 degrees C minimum to 25 degrees C maximum with relative humidity of 35% to 60%.
1.11.1.6. Provide ventilation and outdoor air as per ASHRAE 62.1 – 2010 Standard.
1.11.1.7. Building lighting: maintain measured lighting level of 200 lx at 1500 mm above finished floor, after building finishes and painting complete.
1.11.1.8. Thermal performance of window units: Maximum heat transfer rate (U-value) not to exceed 2.0 W/m2K.
1.11.1.9. Regularly collect refuse and recyclables and keep the office clean and properly maintained with heat and light.
1.11.1.10. Provide private washroom facilities in offices in accordance with the Contract, complete with flush or chemical type toilet, lavatory and mirror and maintain supply of paper towels and toilet tissue.
1.11.1.11. Furnish offices in accordance with the Contract.
1.11.1.12. Work stations must include; 1 desk (minimum size 120 cm x 50 cm, minimum height 70 cm), 1 swivel desk chair (minimum load requirement 100 kg), 1 bookshelf (minimum 3 shelves with a minimum shelf height of 32 cm), 1 locking filing cabinet (minimum dimensions 50 cm x 39 cm x 60 cm), 1 garbage can, and 1 recycling bin.
1.11.1.13. The work stations and contents must be for the sole use of the Departmental Representative and their consultant(s) for the duration of the Work and may, if necessary, be used concurrently with other inspection agencies.
1.11.2. Installation:
1.11.2.1. Install stable timber foundation as shown on Contractor's Site Layout.
1.11.2.2. Install level and plumb.
1.11.2.3. Install skirting and stairs.
1.11.2.4. Adjust doors and windows for smooth operation.
1.11.2.5. Install personnel decontamination facility immediately adjacent to stairs.
1.11.3. Provide a minimum of 2 parking spaces for Departmental Representatives and their consultants adjacent to offices.

1.12. Equipment, Tools and Materials Storage

1.12.1. Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.

1.12.2. Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.

1.13. Sanitary Facilities

1.13.1. Provide sanitary facilities for work force in accordance with governing regulations and ordinances.

1.13.2. Post notices and take precautions as required by local health authorities. Keep area and premises in sanitary condition.

1.14. Construction Signage

1.14.1. Provide and erect project signs within 10 Working Days of mobilization in a location designated by Departmental Representative.

1.14.2. Provide project identification site sign comprising foundation, framing, and one 1200 x 2400 mm signboard as detailed and as described below.

1.14.2.1. Foundations: 15 MPa concrete to CSA-A23.1 minimum 200 mm x 900 mm deep.

1.14.2.2. Framework and battens: SPF, pressure treated minimum 89 x 89 mm.

1.14.2.3. Signboard: 19 mm Medium Density Overlaid Douglas Fir Plywood to CSA O121.

1.14.2.4. Paint: alkyd enamel to CAN/CGSB-1.59 over exterior alkyd primer to CAN/CGSB 1.189.

1.14.2.5. Fasteners: hot-dip galvanized steel nails and carriage bolts.

1.14.2.6. Vinyl sign face: printed project identification, self adhesive, vinyl film overlay, supplied by Departmental Representative.

1.14.3. Locate project identification sign as directed by Departmental Representative and construct as follows:

1.14.3.1. Build concrete foundation, erect framework, and attach signboard to framing.

1.14.3.2. Paint surfaces of signboard and framing with one coat primer and two coats enamel. Colour white on signboard face, black on other surfaces.

1.14.3.3. Apply vinyl sign face overlay to painted signboard face in accordance with installation instruction supplied.

1.14.4. Direct requests for approval to erect Contractor signboard to Departmental Representative. For consideration general appearance of Contractor signboard must conform to project identification site sign. Wording in both official languages.

1.14.5. Signs and notices for safety and instruction in both official languages Graphic symbols to CAN/CSA-Z321.

1.14.6. Maintain approved signs and notices in good condition for duration of project, and dispose of off site on completion of project or earlier if directed by Departmental Representative.

1.15. Protection and Maintenance of Traffic

1.15.1. Provide access and temporary relocated roads as necessary to maintain traffic.

1.15.2. Maintain and protect traffic on affected roads during construction period except as otherwise specifically directed by Departmental Representative.

1.15.3. Provide measures for protection and diversion of traffic, including provision of watch-persons and flag-persons, erection of barricades, placing of lights around and in front of equipment and work, and erection and maintenance of adequate warning, danger, and direction signs.

1.15.4. Protect travelling public from damage to person and property.

1.15.5. Contractor's traffic on roads selected for hauling material to and from site to interfere as little as possible with public traffic.

1.15.6. Verify adequacy of existing roads and allowable load limit on these roads. Contractor: responsible for repair of damage to roads caused by construction operations.

1.15.7. Construct access and haul roads necessary.

1.15.8. Haul roads: constructed with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic shall be avoided.

1.15.9. Provide necessary lighting, signs, barricades, and distinctive markings for safe movement of traffic.

1.15.10. Dust control: adequate to ensure safe operation at all times.

1.15.11. Location, grade, width, and alignment of construction and hauling roads: subject to approval by Departmental Representative.

1.15.12. Lighting: to assure full and clear visibility for full width of haul road and work areas during night work operations.

1.15.13. Provide snow removal during period of Work.

1.15.14. Remove, upon completion of work, haul roads designated by Departmental Representative.

1.16. Truck Wash and Decontamination Units

1.16.1. Supply, install and operate the truck wash, including the installation of a water supply.

1.16.1.1. No vehicles which have come in contact with Contaminated Material must leave the Site without passing through the truck wash.

1.16.1.2. The truck wash must provide, at a minimum, the ability to wash truck tires and load boxes to a minimum height of 1.7 m.

1.16.1.3. Truck wash must have a solid separation tank and all solids collected must be classified as Contaminated Material and disposed of at a Disposal Facility.

1.16.1.4. Recycle or treated as Contaminated Water used in the truck wash.

1.16.2. Supply personnel decontamination units (minimum of 2) for use by hazardous material, testing and inspection personnel working in areas of hazardous materials and for general clean-up of personal protective equipment to remove Contaminated Material.

1.16.2.1. At least one personnel decontamination unit must have overhead shower capability.

1.16.2.2. The personnel decontamination units to be available to Departmental Representative and their consultants.
1.16.2.3. The personnel decontamination units are subject to acceptance of Departmental Representative.
1.16.3. The truck wash and personnel decontamination units must be maintained in good working order during onsite Work.
1.16.4. The truck wash and personnel decontamination units must be removed from the Site during Site Decommissioning.

1.17. Clean-Up

1.17.1. Remove construction debris, waste materials, packaging material from work site daily.
1.17.2. Clean dirt or mud tracked onto paved or surfaced roadways.
1.17.3. Store materials resulting from demolition activities that are salvageable.
1.17.4. Stack stored new or salvaged material not in construction facilities.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Product Data: at least 5 Working Days prior to use, Submit data on products to be used in Work. Include:

1.3.1.1. Manufacturers' catalogue sheets, MSDS sheets, brochures, literature, performance charts and diagrams, used to illustrate standard manufactured products or any other information in accordance with the Contract.

1.3.1.2. Delete information not applicable to project.

1.3.1.3. Supplement standard information to provide details applicable to project.

1.3.1.4. Cross-reference product data information to applicable portions of Contract.

1.3.2. Substitution: at least 5 Working Days prior to use and after Contract award, Submit proposals for substituting products, if required. Include statements of respective costs of items originally in accordance with the Contract and the proposed substitution.

1.3.3. Quality of Work: at least 5 Working Days prior to Work, Submit alternate means to meet or correct quality of work, if required.

1.4. Products, Material and Equipment

1.4.1. Use new products, material and equipment in accordance with the Contract. The term "products" is referred to throughout the specifications.

1.4.2. Use products of one manufacturer for material and equipment of the same type or classification in accordance with the Contract.

1.4.3. Unless otherwise specified, comply with manufacturer's latest printed instructions for materials and installation method in accordance with the Contract s.

1.4.4. Notify Departmental Representative in writing of any conflict between Contract and manufacturer's instructions. Departmental Representative will instruct which document is to be followed.

1.4.5. Deliver, store and maintain packaged material and equipment with manufacturer's seals and labels intact.

1.4.6. Prevent damage, adulteration and soiling of products during delivery, handling and storage. Immediately remove rejected products from Site.

1.4.7. Store products in accordance with Suppliers' instructions.

1.5. Quality of Products

1.5.1. Products, materials and equipment (referred to as products) incorporated into Work must be new, not damaged or defective, and of the best quality (compatible with the specifications) for the purpose intended. As instructed by the Departmental Representative, furnish evidence as to type, source, and quality of the products provided.

1.5.2. Defective products will be rejected regardless of previous inspections.

1.5.2.1. Inspection does not relieve responsibility, but is precaution against oversight or error.

1.5.2.2. Remove and replace defective products.

1.5.3. Retain purchase orders, invoices and other documents to prove that all products utilized in the Work meet the requirements of the Contract. Produce documents as instructed by the Departmental Representative.

1.5.4. Should any dispute arise as to quality or fitness of products, the decision rests strictly with the Departmental Representative in accordance with the Contract.

1.5.5. Permanent labels, trademarks and nameplates on products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.

1.6. Availability of Products

1.6.1. Immediately upon signing the Contract, review product delivery requirements and anticipate foreseeable supply delays for any items.

1.6.2. If delays in supply of products are foreseeable, Notify Departmental Representative of such in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of the Work.

1.6.3. In event of failure to Notify Departmental Representative at the start of Work and should it subsequently appear that the Work may be delayed for such reason, the Departmental Representative reserves the right to substitute more readily available products of similar character.

1.7. Manufacturer's Instructions

1.7.1. Install or erect products in accordance with the manufacturer's instructions in accordance with the Contract.

1.7.1.1. Do not rely on labels or enclosures provided with products.

1.7.1.2. Obtain written instructions directly from the manufacturer.

1.7.2. Notify Departmental Representative in writing of any conflict between Contract and manufacturer's instructions. Departmental Representative will instruct which document is to be followed.

1.7.3. Improper installation or erection of products, due to failure in complying with these requirements, authorizes the Departmental Representative to instruct the removal and re-installation.

1.8. Contractor's Options for Selection of Products for Tendering

1.8.1. Products specified by "Prescriptive" specifications: select any product meeting or exceeding requirements in accordance with the Contract.

1.8.2. Products specified by performance and referenced standard: select any product meeting or exceeding the referenced standard.

1.8.3. Products specified to meet particular design requirements or to match existing materials: use only material in accordance with the Contract.

1.8.4. When products are specified by a referenced standard or by performance specifications, as instructed by the Departmental Representative obtain from manufacturer and independent laboratory report showing that the product meets or exceeds the requirements in accordance with the Contract.

1.9. Storage, Handling and Protection

1.9.1. Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions.

1.9.2. Store packaged or bundled products in original and undamaged condition with manufacturer's seals and labels intact. Do not remove from packaging or bundling until required in Work.

1.9.3. Store products subject to damage from weather in weatherproof enclosures.

1.9.4. Remove and replace damaged products as instructed by the Departmental Representative.

1.10. Transportation

1.10.1. Pay costs of transportation of products required in performance of Work.

1.10.2. Transport products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.

1.10.3. Transport products subject to damage from weather in weatherproof enclosures.

1.10.4. Transport in an efficient manner that does not cause delays to the Work schedule.

1.11. Quality of Work

1.11.1. Ensure quality of Work is of highest standard, executed by workers experienced and skilled in respective duties for which they are employed. Immediately Notify Departmental Representative if required Work is such as to make it impractical to produce results in accordance with the Contract. Provide alternate means to meet or correct quality of work, as accepted by the Departmental Representative.

1.11.2. Do not employ anyone unskilled in their required duties.

1.11.3. Perform Work to standard of fitness of Quality of Work in accordance with any decision by the Departmental Representative.

1.12. Coordination

1.12.1. Ensure cooperation of workers in laying out Work. Maintain efficient and continuous supervision.

1.13. Remedial Work

1.13.1. Perform remedial Work required to repair or replace parts or portions of Work as instructed by the Departmental Representative as defective or unacceptable. Coordinate adjacent affected Work as required.

1.13.2. Perform remedial Work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.

1.14. Storage Tanks

1.14.1. Abide by the *Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations* for stored petroleum products and allied petroleum products tank system located on federal or Aboriginal land, or within federal jurisdiction as described in the regulations.

1.14.2. Temporary storage tanks subject to the regulations must be registered with Environment Canada.

1.14.3. Mobile tanks subject to the regulations must be certified to be mobile.

1.14.4. Storage tanks to meet the following minimum requirements:

1.14.4.1. Corrosion protection.

1.14.4.2. Secondary containment.

1.14.4.3. Containment sumps, if applicable.

1.14.4.4. Overfill protection.

1.14.5. All components of tank system must bear certification marks indicating that they conform to the standards set out in the regulations.

1.14.6. Product transfer area must be designed to contain spills.

1.14.7. Prepare an emergency plan.

1.14.8. Prior to first filling, storage tanks must:

1.14.8.1. Be registered.

1.14.8.2. Be certified and marked.

1.14.8.3. Transfer area be constructed.

1.14.8.4. Emergency plan in place.

2. PART 2 - PRODUCTS

2.1. Asbestos Containing Materials Prohibition

2.1.1. Any material containing any degree of asbestos is banned from use in any and all sites, designs and projects.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Preconstruction Condition Survey: within 5 Working Days prior to mobilization to Site, Submit Preconstruction Condition Survey of existing structures, utilities and surface features.

1.3.2. Preconstruction As-Built Documents: at least 5 Working Days prior to mobilization to Site, Submit preconstruction as-built documents prepared by a Land Surveyor.

1.4. Qualifications of Surveyor

1.4.1. A Land Surveyor, acceptable to Departmental Representative.

1.5. Survey Reference Points

1.5.1. Locate, confirm and protect control points prior to starting site work. Preserve permanent reference points during construction.

1.5.2. Make no changes or relocations without prior written notice to Departmental Representative.

1.5.3. Report to Departmental Representative when reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.

1.5.4. Require surveyor to replace control points in accordance with original survey control.

1.6. Survey Requirements

1.6.1. Establish permanent bench marks on site, referenced to established bench marks by survey control points. Record locations, with horizontal and vertical data in Project Record Documents.

1.6.2. Establish lines and levels, locate and lay out, by instrumentation.

1.6.3. Stake for grading, fill.

1.7. Existing Services

1.7.1. Size, depth and location of existing utilities and structures as specified are for guidance only. Completeness and accuracy are not guaranteed.

1.7.2. Before commencing work, establish location and extent of service lines in area of Work and notify Departmental Representative. All utilities entering Site must be confirmed prior to subsurface disturbance (i.e., do not rely on as-built documents). As appropriate, confirm locations of buried utilities by independent utility locator and using hand test excavations or hydrovac methods.

1.7.3. Remove abandoned service lines within 2m of structures. Cap or otherwise seal lines at cut-off points as directed by Departmental Representative.
1.7.4. Maintain and protect from damage all utilities and structures encountered, unless Work involves temporarily breaking, rerouting, or connecting into existing utilities.
1.7.5. Where Work involves temporarily breaking, rerouting, or connecting into existing utilities, obtain permission from utility companies of intended interruption of services, and carry out Work at times determined by the authorities having jurisdiction.
1.7.6. Submit schedule to and obtain approval for any shutdown or closure of active service. Adhere to schedule accepted by Departmental Representative and provide notice to affected parties.
1.7.7. Provide temporary services as required to maintain critical building and tenant systems.
1.7.8. Where unknown utilities are encountered, immediately verbally notify Departmental Representative and confirm findings in writing.

1.8. Examination

1.8.1. Examine Site and Contract and be familiar and conversant with existing conditions likely to affect Work, including Contaminated Material.

1.9. Records

1.9.1. Land Surveyor to prepare preconstruction as-built drawings of all utilities.
1.9.2. Land Surveyor to prepare postconstruction as-built drawings of all utilities, including existing, reinstated, rerouted, and abandoned.
1.9.3. Maintain a complete, accurate log of control and survey work as it progresses.
1.9.4. Preconstruction Condition Survey:
1.9.4.1. Conduct Preconstruction Condition Survey of existing structures and other features which can be affected by Work, both onsite and offsite. Includes: buildings, trees and other plants, lawns, fencing, service poles, wires, rail tracks, pavement, roads, survey bench marks, monuments and other features.
1.9.4.2. Survey to include detailed photographic documentation of any preconstruction damage, and measurements where appropriate, including crack width and length, angles out of true. Record written notices to owners of features that have existing damage.
1.9.4.3. Record written notices of offsite owners which refused entry to conduct Preconstruction Condition Survey.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Waste Reduction Plan: within 5 Working Days after Contract award and prior to mobilization to Site, Submit a plan detailing material separation. Include:

1.3.1.1. List of materials to be reused or recycled.

1.3.1.2. Sequence, methods and means to dispose Waste offsite. Include name, location, provincial or territorial authorizations, and evidence of compliance with municipal zoning and bylaws of Disposal Facilities.

1.3.2. Landfill Receipts: within 5 Working Days of transport offsite, Submit receiving facility receipts indicating quantity and type of material delivered to Landfill.

1.3.3. Recycling Receipts: within 5 Working Days of transport offsite, Submit receiving facility receipts indicating quantity and type of materials sent for recycling.

1.4. Waste Disposition

1.4.1. Waste and Non-Contaminated Material Disposal:

1.4.1.1. Dispose all soil and sediment in Landfill Facility.

1.4.1.2. Divert materials other than soil or sediment which can be practically reused or recycled from Landfill as approved by Departmental Representative.

1.4.1.3. All Waste not reused or recycled must be disposed in Landfill Facility.

1.5. Waste Transport

1.5.1. Assume ownership of, and be responsible for, Waste once it is loaded on a vehicle, barge, or other vessel for transport.

1.5.2. Transport material as soon as practical. Do not unreasonably stockpile material onsite.

1.5.3. Cover material while being transported to prevent release of airborne dust, vapours, or odours, and to prevent saturation and leachate generation from material.

1.5.4. Excess water in material must not be allowed to flow out of vehicle or vessel during transport.

1.5.5. Stabilize material as necessary.

1.5.6. All vehicles, vessels and operators must be appropriately licensed and equipped to transport Waste.

1.5.7. Barges must be inspected by an independent Marine Surveyor and Submit a copy of the Certificate of Seaworthiness to Departmental Representative.

1.5.8. Manifest and correlate quantities of all material transported from Site documenting quantity removed from Site, movement, transfer stations, interim storage and treatment, and weight of material at final Disposal Facility. Submit all manifests, as directed by the Departmental Representative.

1.5.9. Material transported with discrepancies in manifests must be resolved as required by regulations and as acceptable to the Departmental Representative. Discrepancies include:

1.5.9.1. No manifest or an incomplete manifest.

1.5.9.2. The material transported does not match the description in the manifest.

1.5.9.3. The amount transported differs by more than 5% in the manifest.

1.5.9.4. The material transported is in a hazardous condition.

1.5.10. Transfer/Interim Storage Facility must:

1.5.10.1. Be an existing offsite facility located in Canada or the United States.

1.5.10.2. Be designed, constructed and operated for the transfer or interim storage of Contaminated Material.

1.5.10.3. Hold a valid and subsisting permit, certificate, approval, or other required form of authorization issued by a Facility Regulator for the transfer or interim storage of relevant Contaminated Material.

1.5.10.4. Comply with applicable municipal zoning, bylaws, and other applicable requirements.

1.5.11. Facility Regulator:

1.5.11.1. For facilities within provincial or territorial jurisdiction: the relevant provincial or territorial ministry.

1.5.11.2. For facilities on First Nations reserve land in Canada not subject to the First Nation Land Management regime: Indigenous and Northern Affairs Canada.

1.5.11.3. For facilities on First Nations reserve land in Canada subject to the First Nation Land Management regime: the relevant First Nation Council. In addition, a Qualified Professional must certify that the facility is appropriate for the relevant Contaminated Material.

1.5.11.4. For facilities in the United States of America: either or both of the Environmental Protection Agency and the relevant State, as appropriate.

1.6. Waste Disposal

1.6.1. Assume ownership of, and be responsible for, Waste disposed.

1.6.2. Waste Disposal: dispose Waste at Landfill Facility provided by Contractor and accepted by the Departmental Representative.

1.6.3. Disposal Facility must:

1.6.3.1. Be an existing offsite facility located in Canada or the United States.

1.6.3.2. Be designed, constructed and operated to prevent any pollution from being caused by the facility outside the area of the facility from waste placed in or on land within the facility. Must conform with the BC Ministry of Environment *Landfill Criteria for Municipal Solid Waste* or equivalent requirements of authorities having jurisdiction.

1.6.3.3. Hold a valid and subsisting permit, certificate, approval, or other required form of authorization issued by a Facility Regulator for the disposal of relevant Contaminated Material.
1.6.3.4. Comply with applicable municipal zoning, bylaws, and other applicable requirements.
1.6.4. Facility Regulator:
1.6.4.1. For facilities within provincial or territorial jurisdiction: the relevant provincial or territorial ministry.
1.6.4.2. For facilities on First Nations reserve land in Canada not subject to the First Nation Land Management regime: Indigenous and Northern Affairs Canada.
1.6.4.3. For facilities on First Nations reserve land in Canada subject to the First Nation Land Management regime: the relevant First Nation Council. In addition, a Qualified Professional must certify that the facility is appropriate for the relevant Contaminated Material.
1.6.4.4. For facilities in the United States of America: either or both of the Environmental Protection Agency and the relevant State, as appropriate.
1.6.5. Dispose material as soon as practical and within 60 Working Days of leaving Site or as required by Contract unless otherwise accepted by Departmental Representative.
1.6.6. Material sent to a Landfill Facility must be permanently stored at that facility.
1.6.7. If proposed Landfill Facility is not acceptable to Departmental Representative, provide an alternate Landfill Facility that is acceptable.
1.6.8.
Submit Landfill Receipts for all Waste material disposed offsite.

1.7. Materials Source Separation

1.7.1. Provide separate containers for reusable and/or recyclable materials of the following:
1.7.1.1. Metals.
1.7.1.2. Wood.
1.7.1.3. Plastics.
1.7.1.4. Paper.
1.7.1.5. Glass.
1.7.1.6. Concrete.
1.7.1.7. Other materials in accordance with the Contract.
1.7.2. Implement Materials Source Separation Program for waste generated on project in compliance with methods accepted by the Departmental Representative.
1.7.3. Locate containers in locations, to facilitate deposit of materials without hindering daily operations.
1.7.4. Locate separated materials in areas which minimize material damage.

1.8. Diversion of Materials

1.8.1. Create a list of materials to be separated from the general waste stream and stockpiled in separate containers, as accepted by the Departmental Representative and consistent with applicable fire regulations.

1.8.1.1. Mark containers.

1.8.1.2. Provide instruction on disposal practices.

1.9. Storage, Handling and Application

1.9.1. Do Work in compliance with Waste Reduction Plan.

1.9.2. Handle waste materials not reused, salvaged, or recycled in accordance with appropriate regulations and codes, and dispose at Landfill weekly.

1.9.3. Materials in separated condition: collect, handle, store onsite, and transport offsite to an authorized recycling facility accepted by the Departmental Representative, and remove from Site weekly.

1.9.4. Materials must be immediately separated into specified categories for reuse or recycling.

1.9.5. Unless otherwise in accordance with the Contract, materials for removal become the Contractor's property.

1.9.6. Onsite sale of salvaged/recyclable material is not permitted.

1.9.7. Submit as instructed by the Departmental Representative receiving facility weigh scale receipts indicating quantity of material delivered to Landfill.

1.9.8. Submit as instructed by the Departmental Representative receiving facility weigh scale receipts indicating quantity and type of materials sent for recycling.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Product Instructions: at least 10 Working Days before Substantial Performance of the Work is completed, Submit instructions and data by personnel experienced in maintenance and operation of products and equipment constructed and remaining onsite, if required.

1.3.2. Closeout Documents: within 20 Working Days of Final Completion of Site Restoration, Submit completion documents and as-built documents.

1.4. As-Built Documents

1.4.1. The Departmental Representative will provide 2 sets of Drawings, 2 sets of Specifications, and 2 copies of the original AutoCAD files for “as-built” purposes.

1.4.2. As Work progresses, maintain accurate records to show all deviations from the Contract. Note changes as they occur on as-built Specifications, Drawings and shop drawings.

1.4.3. Drawings and shop drawings: legibly mark each item to record actual construction, including:

1.4.3.1. Measured locations of internal utilities and appurtenances, referenced to visible and accessible features of construction.

1.4.3.2. Field changes of dimension and detail.

1.4.3.3. Changes made by change orders.

1.4.3.4. Details not on original Drawings.

1.4.3.5. References to related shop drawings and modifications.

1.4.4. Contract Specifications: legibly mark each item to record actual workmanship of construction, including:

1.4.4.1. Manufacturer, trade name, and catalogue number of each product actually installed, particularly optional items and substitute items.

1.4.4.2. Changes made by addenda and change orders.

1.4.5. As-built information:

1.4.5.1. Record changes in red ink.

1.4.5.2. Mark on 1 set of Drawings, Specifications and shop drawings at Final Completion of project and, before final inspection, neatly transfer notations to second set.

1.4.5.3. Submit 1 set in editable AutoCAD 14 file format with all as-built information.

1.4.5.4. Submit all sets as instructed by the Departmental Representative.

1.4.6. As required, surveying to be completed by a Land Surveyor for as-built documents.

1.5. Completion Documents

1.5.1. Submit as instructed by the Departmental Representative, a written certificate that the following have been performed:

1.5.1.1. Work has been completed and inspected by the Departmental Representative in accordance with the Contract.

1.5.1.2. Treatment and disposal of treatable soils have been completed and disposal of all other soils has been completed.

1.5.1.3. Damage has been repaired, deficiencies have been completed, missing items have been provided, and non-conformance has been corrected, in the opinion of the Departmental Representative.

1.5.1.4. Equipment and systems have been tested, adjusted and balanced, and are fully operational, as applicable.

1.5.1.5. Certificates required by the Fire Commissioner of Canada, and utility companies have been submitted, as applicable.

1.5.1.6. Operation of systems has been demonstrated to the personnel as instructed by the Departmental Representative, as applicable.

1.5.1.7. Qualified Professional report documenting backfilling has met all requirements of the Contract.

1.5.1.8. Work is complete and ready for Final Site Inspection.

1.5.2. Defective products will be rejected, regardless of previous inspections. Replace defective products.

1.5.3. Prepare all documentation required as part of any permits or other authorizations obtained or otherwise the responsibility of the Contractor.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used.

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Permits: at least 5 Working Days prior to mobilization to Site, Submit copies of all permits, certificates, approvals, or any other form of authorizations and all reporting required.

1.3.2. Import Fill Material Quality: at least 5 Working Days prior to bringing material onsite, Submit documentation signed and sealed by a Qualified Professional verifying that material is acceptable for import and intended use. Include:

1.3.2.1. Grain-size distribution information.

1.3.2.2. Chemical analyses for Potential Contaminants of Concern, including metals.

1.3.2.3. Testing to be performed by a Qualified Professional at sufficient frequency to characterize all material imported to Site. Test using appropriate guidelines and practices.

1.3.3. Import Fill Material Samples: at least 5 Working Days prior to bringing material to Site, Submit samples of imported fill.

1.3.3.1. Submit samples representative of all material to be imported. Sample frequency subject to acceptance by Departmental Representative.

1.3.3.2. Submit sufficient sample size to allow geotechnical and environmental quality testing.

1.4. Sequencing for Free Phase Products

1.4.1. When floating free phase substance is present, remove free phase from saturated soil or sediment without further contaminating soil, sediment or groundwater prior to commencing other construction Work.

1.4.2. Collect free phase product, load, and transport to a Treatment Facility.

1.5. Onsite Access Roads

1.5.1. Maintain onsite access roads as follows:

1.5.1.1. Obtain permission to use existing onsite access roads.

1.5.1.2. Maintain and clean roads for duration of Work.

1.5.1.3. Control mud and dust from road.

1.5.1.4. Repair damage incurred from use of roads.

1.5.1.5. Provide photographic documentation of roads used by construction vehicles before, during and after Work.

1.5.1.6. The Departmental Representative can instruct cleaning of the onsite access roads.

2. PART 2 - PRODUCTS

2.1. Materials

2.1.1. Erosion and sediment control materials to meet the following minimum requirements:

2.1.1.1. Hay or Straw Bale: wire bound or string tied; securely anchored by at least 2 stakes or rebars driven through bale 300 mm to 450 mm into ground; chinked (filled by wedging) with hay or straw to prevent water from escaping between bales; and entrenched minimum of 100 mm into ground.

2.1.1.2. Silt Fence: assembled, ready to install unit consisting of geotextile attached to driveable posts. Geotextile: uniform in texture and appearance, having no defects, flaws, or tears that would affect its physical properties; and contain sufficient ultraviolet ray inhibitor and stabilizers to provide minimum 2-year service life from outdoor exposure.

2.1.1.3. Net Backing: industrial polypropylene mesh joined to geotextile at both top and bottom with double stitching of heavy-duty cord, with minimum width of 750 mm.

2.1.1.4. Posts: sharpened wood, approximately 50 mm square, protruding below bottom of geotextile to allow minimum 450 mm embedment; post spacing 2.4 m maximum. Securely fasten each post to geotextile and net backing using suitable staples.

2.1.2. Gradations to be within limits specified when tested to ASTM C117-13 (*Standard Test Method for Materials Finer than 0.075 mm (No. 200) Sieve in Mineral Aggregates by Washing*) and ASTM C136-06 (*Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates*). Sieve sizes to SCC CAN/CGSB-8.1-88 (*Sieves, Testing, Woven Wire, Inch Series*) and CAN/CGSB-8.2-M88 (*Sieves, Testing, Woven Wire, Metric Series*).

2.1.3. Import fill materials to meet the following minimum requirements

2.1.3.1. Import fill materials must be granular aggregate composed of inert, clean, tough, durable particles of crushed rock, gravel and sand capable of withstanding the deleterious effects of exposure to water, freeze-thaw, handling, spreading and compacting. The aggregate particles must be uniform in quality and free from clay lumps, wood and free from an excess of flat or elongated pieces.

2.1.3.2. Import fill materials must originate from a clean source, and be the lesser of the Canadian Council of Ministers of the Environment *Soil Quality Guidelines for Commercial and Industrial Land Uses*, and the British Columbia *Contaminated Sites Regulation Schedule 3.1*

2.1.3.3. Import fill material that is cobble sized or larger (> 64mm) brought onsite must be tested by the Contractor for Acid Rock Drainage (ARD) and Metals Leaching (ML) potential using acid base accounting (ABA) for assessment of ARD potential and more specifically using the Modified Sobek Test Method. The potential for metals leaching must use Shake Flask Extraction (SFE) Method for analysis of metals leaching. See guidance document Price 2009, *Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials* MEND Report 1.20.1, Natural Resources Canada.

2.1.3.4. Any import fill material which has a discrete sample exceeding the standards or guidelines specified must be removed from the Site and replaced, including relevant placed material, as instructed by the Departmental Representative, and an alternate source of backfill must be provided, with no increases to Contract Amount or Extension of Time for completion of the Work.

2.1.4. Import fill material additional testing:

2.1.4.1. Perform additional testing as instructed by the Departmental Representative.

2.1.4.2. Facilitate testing by the Departmental Representative.

2.1.5. Asphalt, as required, must, at minimum, meet the specifications for: Upper Course #1 mix-type as specified in Section 32 12 16, Hot Mix Asphalt Concrete Paving; of the *BC Master Municipal Construction Document (2009) Platinum Edition*.

3. PART 3 - EXECUTION

3.1. Examination

3.1.1. Site Verification of Conditions:

3.1.1.1. Contractor to determine condition of existing Site and requirements to make the Site suitable for Work.

3.2. Mobilization Requirements

3.2.1. Do not mobilize until instructed by Departmental Representative.

3.2.2. Mobilize all necessary equipment, materials and personnel to the Site in an orderly and efficient manner.

3.3. Site Preparation and Operation

3.3.1. Site Preparation and operation includes construction, operation and maintenance for the duration of the Work,

3.3.2. Remove and dispose all surficial Non-Contaminated waste material at a Landfill to allow access for Work.

3.3.3. Clearing and grubbing of the Site to allow access for Work.

3.3.3.1. Clearing consists of removing Non-Contaminated Material vegetation above existing ground surface to facilitate Work. Includes: cutting off trees and brush vegetative growth, felled trees, previously uprooted trees and stumps. Dispose of Non-Contaminated Material at a Landfill.

3.3.3.2. Grubbing consists of excavation of Non-Contaminated Material below existing ground surface to facilitate Work. Includes: stumps, roots, boulders and rock fragments. Dispose of Non-Contaminated Material at a Landfill.

3.3.4. Remove obstructions, ice and snow, from surfaces to be worked.

3.3.5. Protection:

3.3.5.1. Protect existing features with temporary barriers and enclosures as required by applicable local regulations.

3.3.5.2. Keep excavations clean, free of standing water, and loose soil or sediment.

3.3.5.3. Protect natural and man-made features required to remain undisturbed. Unless otherwise required or located in an area to be occupied by new construction, protect existing trees from damage.

3.3.5.4. Protect buried utilities that are required to remain undisturbed.

3.3.5.5. Provide temporary structures to divert flow of surface water from excavation.

3.3.6. Security and Safety:

3.3.6.1. Provide safety measures to ensure worker and public safety.

3.3.6.2. Ensure Site is secure during onsite Work, provide, install, and remove fencing, temporary hoarding, and other security measures as required and specified.

3.3.7. Site including all restoration and excavation areas should be secured with locked fencing, temporary hoarding and security personnel.

3.4. Import Fill Material

3.4.1. Do not import fill material until Departmental Representative has completed and analysed testing. Testing and analysis will depend on parameters. Testing will be performed at industry regular (standard) turnaround times (i.e. not priority, emergency, same day or other rush turnaround times).

3.4.2. Departmental Representative will inspect import fill material, and will not allow import of fill material that varies from Submittal samples.

3.5. Site Restoration

3.5.1. Final site grades must be within 5 cm of pre-existing grades before Work commenced, unless otherwise specified.

3.5.2. Clean permanent access roads of contamination resulting from project activity as required or as instructed of Departmental Representative, with no increases to Contract Amount or Extension of Time for completion of the Work.

3.5.3. Decontaminate equipment used in construction processes and remove from Site at end of construction activities.

3.5.4. Remove all temporary structures including subsurface structures for shoring support.

3.5.5. Upon Final Completion of Work, remove Non-Contaminated Material materials and debris, trim slopes, and correct defects as instructed by the Departmental Representative.

3.5.6. Protect newly graded areas from traffic and erosion and maintain free of trash or debris until demobilization is completed and accepted by the Departmental Representative.

3.5.7. Reinstate pre-existing utilities and other infrastructure to original location and condition, meting current standards, codes, and other requirements, unless otherwise indicated or as instructed by the Departmental Representative.

3.6. Demobilization

3.6.1. Do not demobilize until instructed by Departmental Representative.

3.6.2. Demobilize all necessary equipment, materials, and personnel from Site in an orderly and efficient manner.

END OF SECTION

31 23 33.01
EXCAVATING, TRENCHING AND BACKFILLING

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. See 01 11 00.

1.2. Definitions

1.2.1. See 01 11 00.

1.3. Action and Informational Submittals

1.3.1. Temporary Hoarding: at least 5 Working Days prior to installation, Submit a description of temporary hoarding.

1.3.2. Excavation and Backfilling Plan: within 10 Working Days after Contract award and prior to mobilization to Site, Submit documentation describing excavation Work. Include:

1.3.2.1. Excavation slopes design.

1.3.2.2. Temporary support design.

1.3.2.3. Support of structures design.

1.3.2.4. Sequence, methods and means for excavation dewatering and heave protection.

1.3.2.5. Backfilling requirements. Meet or exceed requirements in accordance with the Contract and any other codes, bylaws, rules and regulations applicable to the performance of the Work.

1.3.2.6. Procedures for excavations adjacent to utilities or other structures if the excavation has the potential to impact utilities or other structures.

1.3.2.7. Monitoring and inspection requirements, including frequency or milestones when a Qualified Professional must inspect Works.

1.3.2.8. Excavation and Backfilling Plan must be signed and sealed by a Qualified Professional, as required by ground conditions, excavation depth, shoring type, or support type.

1.3.3. Monitoring and Testing Results: within 5 Working Days of sampling, Submit all monitoring and testing results. Include procedures, frequency of sampling, Quality Assurance and Quality Control testing and documentation to be provided. Provide monitoring and testing results, including any assessments performed by a Qualified Professional. Include:

1.3.3.1. Noise monitoring.

1.3.3.2. Vibration monitoring.

1.3.3.3. Imported fill material, including geotechnical and environmental quality.

1.3.3.4. Compaction testing results.

1.3.3.5. Environmental analytical results for spill or other environmental testing.

1.3.4. Weigh Scale Certification: at least 5 Working Days prior to use, Submit a copy of the Measurement Canada, Weigh Scale Certification for any onsite or offsite weigh scale used during transportation, treatment or disposal.

1.3.5. Weigh Scale Slips: within 10 Working Days of measurement. Submit all onsite and offsite weigh scale slips for material.

2. PART 2 - PRODUCTS

2.1. Backfill Material

2.1.1. Meet backfill requirements as shown on Drawings.

2.1.2. Meet appropriate grain size distribution from Aggregate Gradations; of the BC Ministry of Transportation and Infrastructure, 2012 *Standard Specifications for Highway Construction (Nov. 1, 2011), Volume 1*.

3. PART 3 - EXECUTION

3.1. Site Review

3.1.1. Ensure that all Works comply with the final sealed design documents as prepared by a Qualified Professional.

3.1.2. Qualified Professional to visit Site regularly.

3.2. Install Temporary Hoarding

3.2.1. Place temporary hoarding in accordance with the Contract so as to provide a visual, environmental, and safety barrier between the Site and neighbouring properties.

3.2.2. Temporary hoarding to be a minimum of 2.4 m in height.

3.2.3. Temporary hoarding not to extend beyond the project Site boundary in accordance with the Contract.

3.2.4. Remove and replace temporary hoarding during excavation activities where excavation along the project Site boundary cannot be accomplished while the temporary hoarding is in place.

3.2.5. The type of temporary hoarding used will be as selected by the Contractor, but will be subject to approval. The temporary hoarding must not have visible holes and must be a neutral color subject to acceptance by Departmental Representative. Only signage accepted by the Departmental Representative will be allowed. No advertising, company identifications, or other markings permitted.

3.2.6. Remove temporary hoarding from the Site during the Site Restoration.

3.3. Design, Construction and Operation of Onsite Access Road(s)

3.3.1. Construct, operate and maintain the onsite access road(s) as required.

3.3.2. Design of temporary onsite access roads to be signed and sealed by a Qualified Professional.

3.3.3. Qualified Professional to confirm that the temporary onsite access roads allow for the safe transport of materials and equipment.

3.3.4. Construction of the onsite access road(s) may require the removal of historic piles or dock facilities along the proposed access alignment, as well as abandoned drainage pipes.

3.3.5. Any temporary access, detour and haul roads associated with the project must be constructed to accommodate all required uses and be maintained throughout the course of construction operations in a safe, environmentally sound manner.
3.3.6. Location, alignment, design and construction of all detour, access and haul road(s) subject to the acceptance of the Departmental Representative.
3.3.7. Employ suitable measures to maintain quality, visibility, and safe conditions in the use of access, detour and haul road(s) associated with the Work.

3.4. Temporary Sloping and Shoring

3.4.1. Determine appropriate sloping or shoring to allow excavation of Contaminated Material to limits identified in Drawings. Contaminated Material Extents may increase based on field observations.
3.4.2. Overburden material immediately above Contaminated Material Extents is considered part of Excavation and will be re-used as Owner Supplied Backfill.
3.4.3. Design Requirements:
3.4.3.1. Act as sloping or shoring structures for excavations as well as for stability of nearby buildings during remediation/construction excavation procedures.
3.4.3.2. Allow excavation of all Contaminated Material laterally and vertically on the Site to Contaminated Material Extents in accordance with the Contract in order to result in no residual contamination at the Site.
3.4.3.3. Provide a safe working environment for personnel and equipment within the dewatered excavation area.
3.4.3.4. Additional sloping or shoring may be required and are considered part of the Temporary Sloping and Shoring design.
3.4.3.5. Temporary shoring cannot have any tiebacks or supports which extend beyond the project Site boundary.
3.4.3.6. Temporary shoring must not flex or bend when exposed while excavations are occurring on the Site.
3.4.3.7. Seismic Resistance of Temporary Sloping and Shoring:
3.4.3.7.1. Sloping and shoring structures are temporary structures only. Resistance to seismic loads will be at the discretion of the Qualified Professional.
3.4.3.7.2. Be responsible for any failures and resultant costs should the temporary sloping or shoring fail due to a seismic event during the construction period.
3.4.3.8. All drawings to be signed and sealed by a Qualified Professional.
3.4.3.9. Temporary sloping and shoring designs to be completed in accordance with methods in current version of *Canadian Foundation Engineering Manual*.
3.4.4. Installation:
3.4.4.1. All installation activities must take place on the Site. No staging or construction activities are to take place on adjacent properties.
3.4.4.2. Installation must be regularly inspected by a Qualified Professional.
3.4.5. Maintain side slopes of excavations in safe condition by appropriate methods and in accordance with relevant regulations.

3.4.6. Construct temporary Works to depths, heights and locations to meet project requirements.
3.4.7. During backfill operation:
3.4.7.1. Unless otherwise indicated or as instructed by the Departmental Representative, remove temporary shoring from excavations.
3.4.7.2. Do not remove support until backfilling has reached respective levels of such bracing.
3.4.7.3. Remove support in increments that ensure compacted backfill is maintained at elevation at least 500 mm above toe of support.
3.4.8. Temporary sloping and shoring excavated material:
3.4.8.1. Material excavated for sloping or shoring may be re-used as backfill to replace material removed if accepted by Qualified Professional and Departmental Representative.
3.4.8.2. Material excavated for sloping or shoring that is accepted for backfilling must follow procedures identified by Qualified Professional and meet Contract requirements.
3.4.8.3. Material excavated for sloping or shoring not accepted must be removed from Site at Contractor's expense.

3.5. **Dewatering and Heave Protection**
3.5.1. Keep excavations free of water while Work is in progress.
3.5.2. Provide to Departmental Representative details of proposed dewatering or heave prevention methods, including dikes, well points, and sheet pile cut-offs.
3.5.3. Plan for excavation below groundwater table to avoid quick conditions or heave.
3.5.4. Prevent piping or bottom heave of excavations by groundwater lowering, sheet pile cut-offs, or other means.
3.5.5. Provide and maintain temporary drainage ditches and other diversions outside of excavation limits.
3.5.6. Keep excavations, staging pads, and other Work areas free from water including standby equipment necessary to ensure continuous operation of dewatering system.
3.5.7. Dewatering Methods: includes sheeting and shoring; groundwater control systems; surface or free water control systems employing ditches, diversions, drains, pipes and/or pumps; and other measures necessary to enable Work to be carried out in dry conditions.
3.5.8. Separate Contaminated Water from Non-Contaminated Water and collect and divert to Contaminated Water Treatment Plant as required.

3.6. Excavation
3.6.1. Notify Departmental Representative at least 5 Working Days in advance of excavation operations.
3.6.2. Excavate to lines, grades, elevations and dimensions in accordance with the Contract or as instructed by Departmental Representative.

3.6.3. Excavation of Contaminated Material to extend to extents shown on Drawings with zero percent residual contamination or as instructed by the Department Representative at Final Completion.
3.6.4. Elevations shown on Drawings, are approximate and final excavation elevations to be determined based on field conditions as instructed by the Departmental Representative.
3.6.5. Excavation must not interfere with bearing capacity of adjacent foundations.
3.6.6. Machine cut banks and slopes.
3.6.7. Protect bottom of excavations from excessive traffic.
3.6.8. Grade excavation top perimeter to prevent surface water run-off into excavation.
3.6.9. Keep excavated and stockpiled materials safe distance away from edge of excavation.
3.6.10. Restrict vehicle operations directly adjacent to open excavations.
3.6.11. Segregate and handle to minimize the amount of Hazardous Waste materials wherever possible, while complying with Hazardous Waste disposal regulations. Segregation of Hazardous Waste during excavation will be by visual and olfactory characteristics and available in-situ characterization.
3.6.12. Contaminated Material onsite classification will be based on available in-situ characterization or ex-situ characterization as instructed by Departmental Representative.
3.6.13. Non-Contaminated Material onsite classification will be based on available in-situ characterization or ex-situ characterization as instructed by Departmental Representative.
3.6.14. Remove Waste Oversize Debris. Break or cut oversize debris into manageable size.
3.6.14.1. Piles encountered during excavation must be cut off at base of excavation. Piles are not to be extracted.
3.6.14.2. Debris that impinges on infrastructure or neighbouring properties is not to be removed unless instructed by Departmental Representative.
3.6.15. Remove Non-Contaminated Material to Landfill or re-use as Backfill-Owner Supplied as shown on Drawings.
3.6.16. Remove Contaminated Material to onsite Treatment Facility or offsite Treatment Facility or offsite Disposal Facility.
3.6.17. Earth bottoms of excavations to be undisturbed soil or sediment, level, free from loose, soft or organic material.
3.6.18. Notify Departmental Representative when bottom of excavation is reached.
3.6.19. Provide assistance for collection of Confirmation Samples as instructed to the Departmental Representative.
3.6.20. Obtain acceptance by Departmental Representative of completed excavation.

3.7. Excavated Material Screening

3.7.1. Screen only material removed from excavation as shown on Drawings or as instructed by Departmental Representative.

3.7.2. Screen using a 75mm (3") screen size. Screener to have sufficient capacity to not restrict the Work.

3.7.3. Undersized screened material to be stockpiled and transported as per the Contract.

3.7.4. Oversized screened material to be stockpiled within work area at a location determined by Departmental Representative.

3.8. Backfill Types and Compaction

3.8.1. Use only owner supplied backfill or imported backfill material in accordance with the Contract, which has been recommended by a Qualified Professional, and has previously accepted as a Submittal.

3.8.2. Compact material in accordance with the Contract to ensure no long term settlement and is suitable for planned post-remediation use:

3.8.2.1. Compact each layer of material to the more stringent of Excavation Plan or Drawings.

3.8.2.2. Machine compact all fill materials unless otherwise shown on Drawings.

3.9. Backfilling

3.9.1. Do not proceed with backfilling operations until completion of following:

3.9.1.1. Confirmation Sampling, analysis, and assessment have been completed by the Departmental Representative. Confirmation Sampling, analysis, and assessment may take up to 5 Working Days. No Standby Time charges or increases to Contract Amount or Extension of Time for completion of the Work can be incurred for Confirmation Sampling results provided within 5 Working Days, not including day of sample collection.

3.9.1.2. Surveying has been completed by a Land Surveyor for as-built documents

3.9.1.3. Departmental Representative has inspected and excavation limits accepted by the Departmental Representative based on survey data and Confirmation Samples results.

3.9.1.4. Departmental Representative has inspected and accepted backfill material.

3.9.1.5. Proposed backfill material can be sampled and tested for geotechnical and environmental quality. Backfill material testing may take up to 10 Working Days not including day of sample collection.

3.9.1.6. Departmental Representative has inspected and accepted compaction results for previous lift.

3.9.1.7. Removal of shoring and bracing; backfilling of voids with satisfactory backfill material.

3.9.2. Areas to be backfilled to be free from debris, snow, ice, water and frozen ground.

3.9.3. Do not use backfill material which is frozen or contains ice, snow or debris.

3.9.4. Place backfill material in uniform layers not exceeding 300 mm compacted thickness, or in accordance with the Contract. Compact each layer to the satisfaction of the Qualified Professional and in accordance with the Contract before placing succeeding layer.
3.9.5. Backfill compaction to be tested by a Qualified Professional in accordance with Excavation Plan.
3.9.6. Notify Departmental Representative when final backfill grade is reached.
3.9.7. Do not begin subsequent Work until surveying has been completed by the Departmental Representative for documentation.

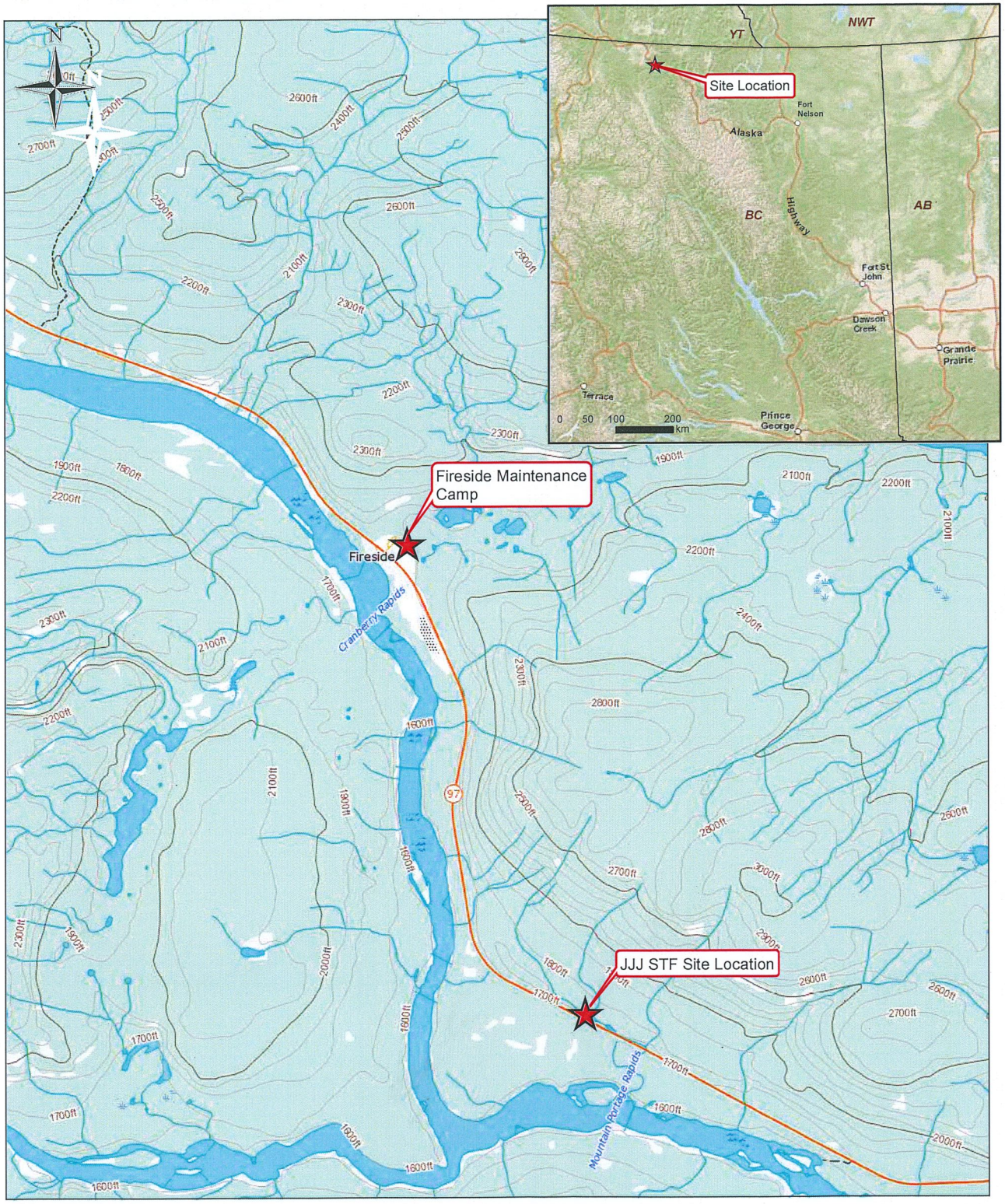
3.10. Backfill - Owner Supplied
3.10.1. Place in locations as instructed by Departmental Representative.
3.10.2. Be responsible for compacting to the satisfaction of the Qualified Professional and in accordance with the Contract.
3.10.2.1. Collect and test samples as required by the Qualified Professional of owner supplied backfill prior to placement.
3.10.2.2. Identify any geotechnical concerns with owner supplied backfill prior to placement.

3.11. Owner Soil Treatment Facility Preparation
3.11.1. Prior to transport and placement of material to Owner Soil Treatment Facility:
3.11.1.1. Remove vegetation that could potentially damage Soil Treatment Facility liner, including roots.
3.11.1.2. Inspect exposed liners.
3.11.1.3. Inspect and repair any minor damage to Soil Treatment Facility berm or liner. Notify Departmental Representative of any significant damage.

3.12. Owner Soil Treatment Facility Closure
3.12.1. At completion of transport and placement of material to Owner Soil Treatment Facility:
3.12.1.1. Grade soil for drainage to prevent ponding within soil treatment facility.
3.12.1.2. Place seamless 25 mil oil resistant reinforced polyethylene (OR RPE) ultraviolet resistant cover. Cover to have a minimum 5 year lifespan.
3.12.1.3. Cover to extend a minimum of 0.5m past berm.
3.12.1.4. Secure cover along perimeter and interior with easily removable weights (e.g., tires, lumber).

END OF SECTION

Drawing No.	Drawing Title
636200-301	Fireside Maintenance Camp Site Location
636200-302	Site Plan and Infrastructure Restrictions
636200-303A	Contaminated Materials Extents – AEC 1
636200-303B	Contaminated Materials Extents – AEC 2
636200-303C	Contaminated Materials Extents – AEC 3 and 6
636200-304A	Geological Cross Section A-A’
636200-304B	Geological Cross Section B-B’
636200-305	Sloping / Shoring Requirements
636200-306	JJJ STF Site Location
636200-307	Site Plan – JJJ Gravel Pit
636200-308	Site Restoration



LEGEND

★ Site Location

NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

PROFESSIONAL ENGINEER — PROVINCE OF — M. A. GUEST — #27500 — BRITISH COLUMBIA

May 29/18

0.5 1 2 3 4 Kilometers

SNC · LAVALIN

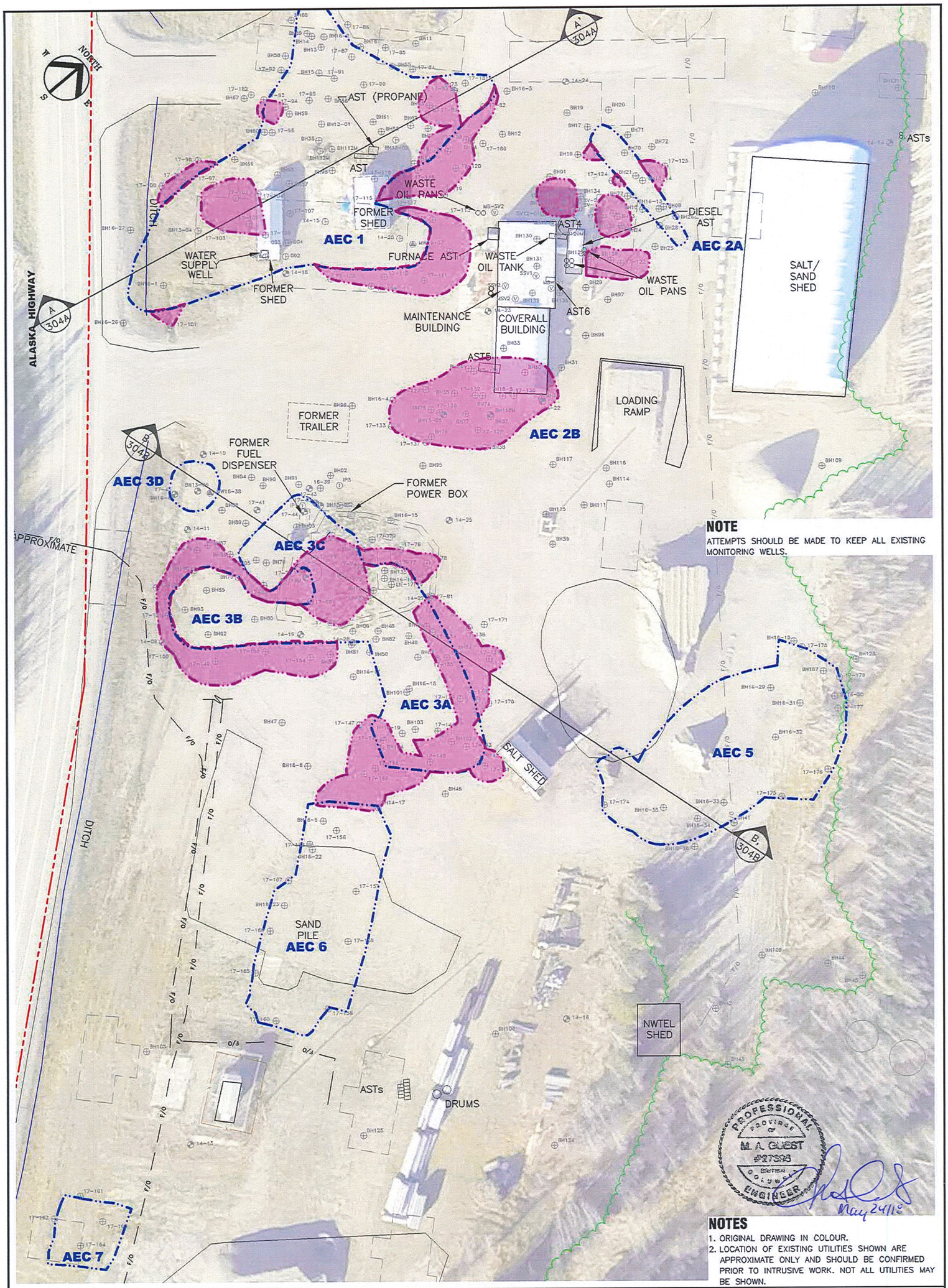
CLIENT NAME:	PROJECT LOCATION:
Public Works and Government Services Canada	Fireside Maintenance Camp Alaska Highway, BC

Fireside Maintenance Camp Site Location

BY: PB	DATE: 2017-03-03	REF. No: 636200-301	REV: 0
CHK'D: CS	SCALE: 1:50,000		

MXD Path: P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside\4.0 Execution\4.5 GIS and Drawings (Secure)\GIS\MapSeries\623385-001.mxd

Project Path: "P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside"



NOTE

ATTEMPTS SHOULD BE MADE TO KEEP ALL EXISTING MONITORING WELLS.

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. A. GUEST #27393 — May 24/18

LEGEND

0 10 20 30 40 Metres

- SUBJECT PROPERTY LIMITS
- TREE LINE
- FENCE
- FORMER SITE CONFIGURATION
- SITE FEATURE
- PREVIOUS EXCAVATION BOUNDARY
- FY 2018/2019 PROPOSED APPROXIMATE EXCAVATION LIMIT
- SECTION LINE
- FIBRE OPTIC LINE – UNDERGROUND APPROXIMATE CUT LINE
- FIBRE OPTIC LINE – OVERHEAD
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- INJECTION POINT

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

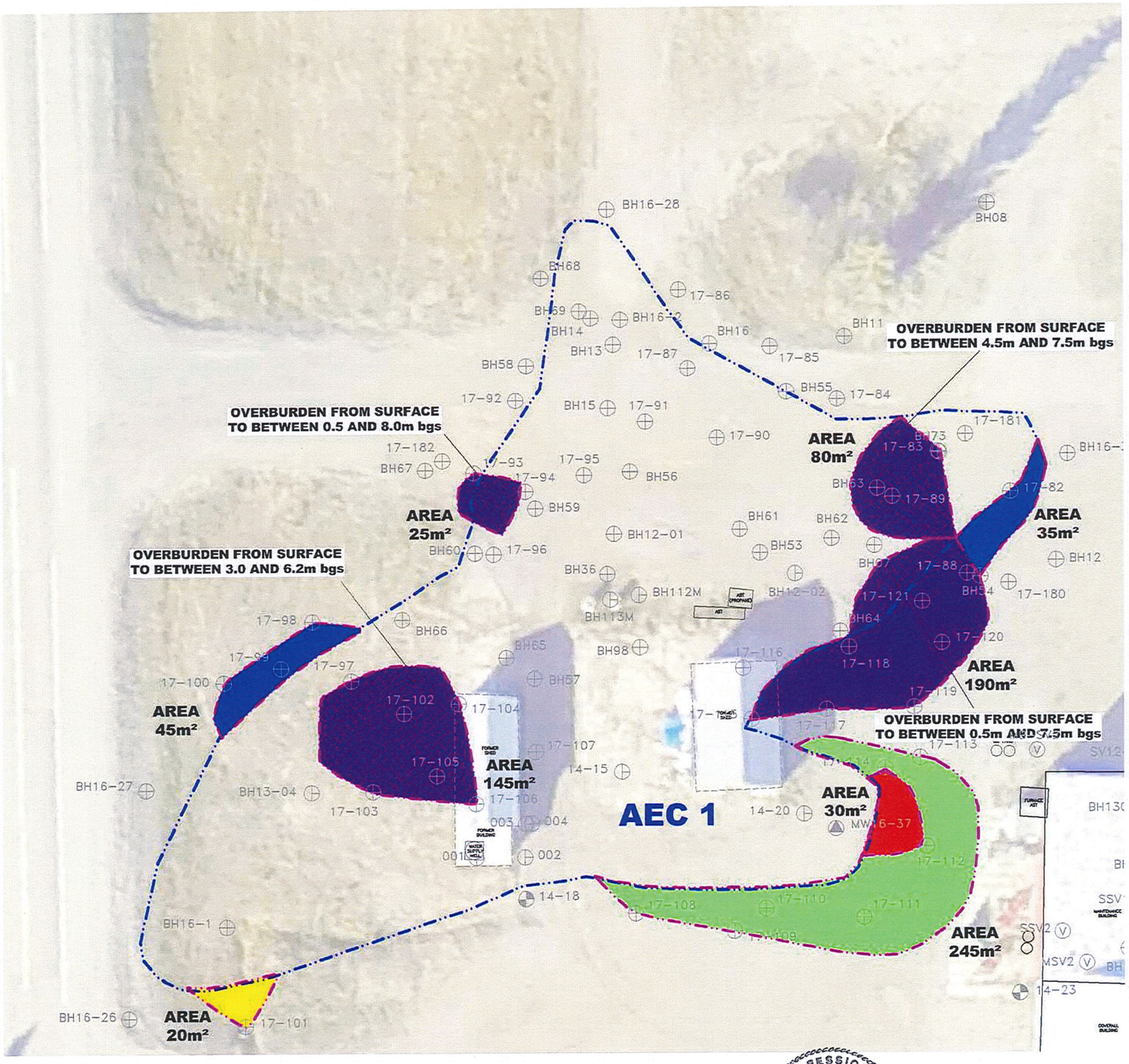
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **SITE PLAN AND INFRASTRUCTURE RESTRICTIONS**

DWN BY: BB	SCALE: 1:800	DATE: 2017-03-03	DWG No: 636200-302 REV.: 1
CHK'D: CS	PLOT: 20180522.1233	CADFILE: 636200R18	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R1B.DWG



Excavation Area	Surface Area (m2)	Estimated Contaminated Soil Volume (m3)	Estimated Non-Impacted Overburden Volume (m3)
AEC 1	820	2,790	1,130

1. THE FOLLOWING IS A LIST OF ANTICIPATED CONTAMINANTS OF CONCERN ON THE SITE.
   SOIL – PETROLEUM HYDROCARBONS (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, VOLATILE PETROLEUM HYDROCARBONS, EXTRACTABLE PETROLEUM HYDROCARBONS, LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS, PETROLEUM HYDROCARBON FRACTIONS F1 TO F3, POLYCYCLIC AROMATIC HYDROCARBONS).
2. PREVIOUS FILL MATERIAL (PREVIOUS EXCAVATION BOUNDARY) TO BE SEGREGATED AS CLEAN OVERBURDEN WHERE REQUIRED.

DEPTH OF CONTAMINATION

- 0.5m
- 1.0m
- 1.5m
- 2.0m
- 8.0m
- OVERBURDEN

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. A. GUEST #27598

May 24/18

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

LEGEND

0 5 20 METRES

- FY 2018/2019 PROPOSED APPROXIMATE EXCAVATION LIMIT
- PREVIOUS EXCAVATION BOUNDARY
- FORMER SITE CONFIGURATION
- SITE FEATURE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- INJECTION POINT

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

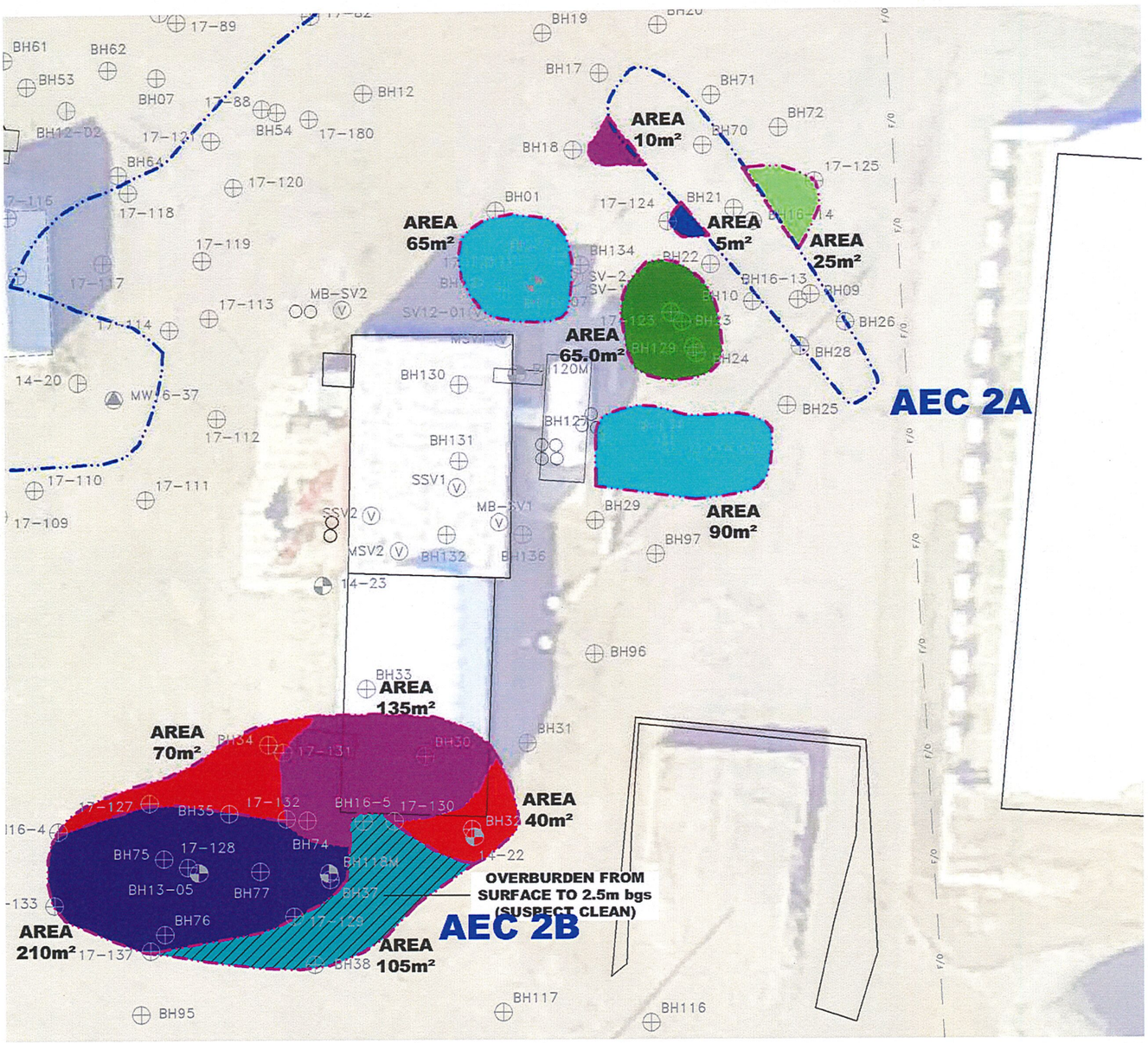
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **CONTAMINATED MATERIALS EXTENTS - AEC 1**

DWN BY: PRT	SCALE: 1:400	DATE: 2017-06-15	DWG No: 636200-303A	REV.: 1
CHK'D: CS	PLOT: 20180522.1234	CADFILE: 636200R18		

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R18.DWG



Excavation Area	Surface Area (m2)	Estimated Contaminated Soil Volume (m3)	Estimated Non-Impacted Overburden Volume (m3)
AEC 2	820	3,350	265

1. THE FOLLOWING IS A LIST OF ANTICIPATED CONTAMINANTS OF CONCERN ON THE SITE. SOIL – PETROLEUM HYDROCARBONS (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, VOLATILE PETROLEUM HYDROCARBONS, EXTRACTABLE PETROLEUM HYDROCARBONS, LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS, PETROLEUM HYDROCARBON FRACTIONS F1 TO F3, POLYCYCLIC AROMATIC HYDROCARBONS).
2. PREVIOUS FILL MATERIAL (PREVIOUS EXCAVATION BOUNDARY) TO BE SEGREGATED AS CLEAN OVERBURDEN WHERE REQUIRED.

DEPTH OF CONTAMINATION

- 1.0m
- 1.5m
- 2.0m
- 2.5m
- 3.0m
- 3.5m
- 6.5m
- 8.0m
- OVERBURDEN

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. A. GUEST #27588

May 24/18

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

LEGEND

0 5 20 METRES

- FY 2018/2019 PROPOSED APPROXIMATE EXCAVATION LIMIT
- PREVIOUS EXCAVATION BOUNDARY
- FORMER SITE CONFIGURATION
- SITE FEATURE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- INJECTION POINT

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

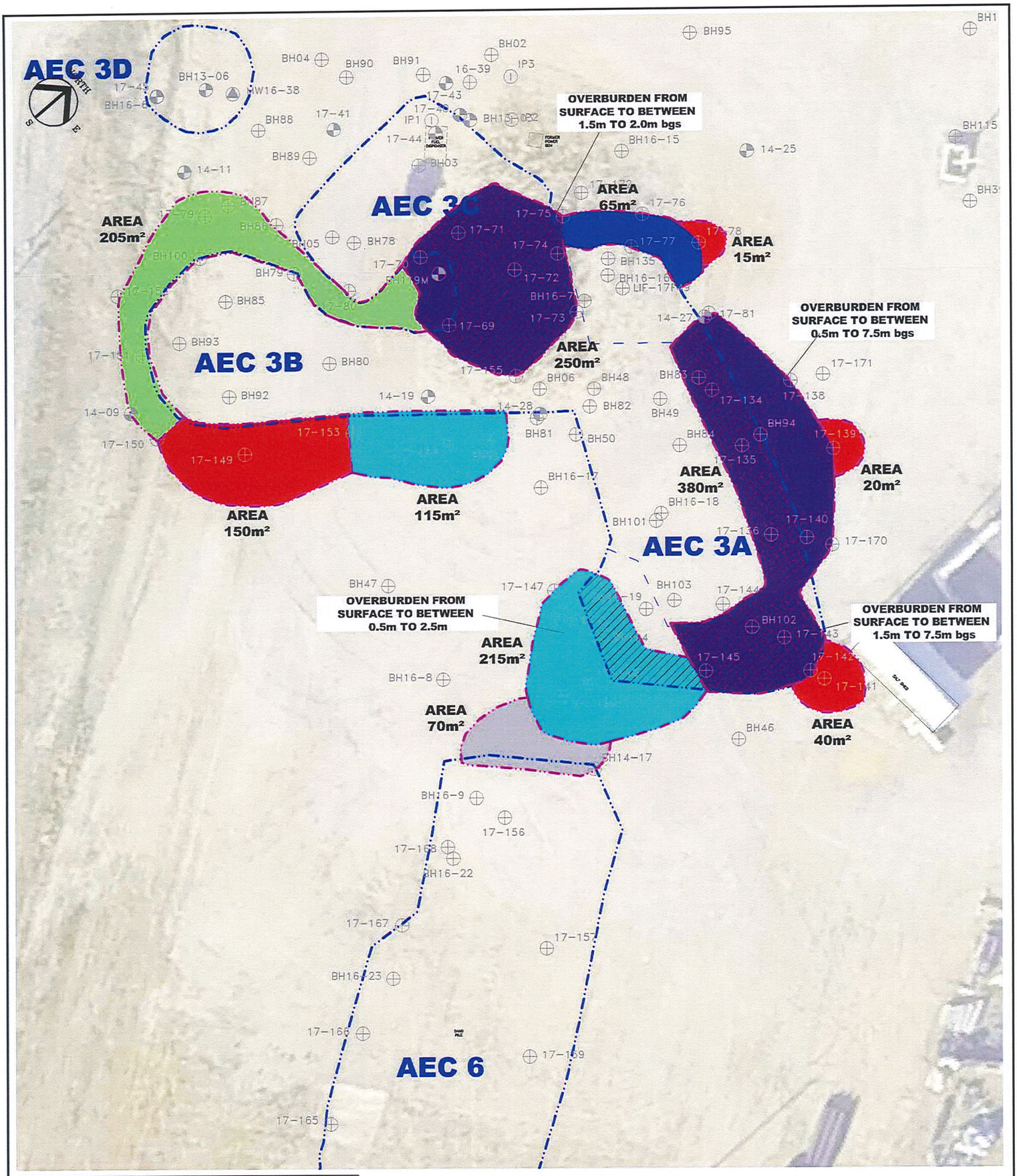
PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **CONTAMINATED MATERIALS EXTENTS - AEC 2**

DWN BY: PES | SCALE: 1:400 | DATE: 2018-03-22 | DWG No: 636200-303B | REV.: 1

CHK'D: CS | PLOT: 20180522.1236 | CADFILE: 636200R18

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R18.DWG



Excavation Area	Surface Area (m2)	Estimated Contaminated Soil Volume (m3)	Estimated Non-Impacted Overburden Volume (m3)
AEC 3	1,455	5,360	1,170
AEC 6	70	45	–

1. THE FOLLOWING IS A LIST OF ANTICIPATED CONTAMINANTS OF CONCERN ON THE SITE. SOIL – PETROLEUM HYDROCARBONS (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, VOLATILE PETROLEUM HYDROCARBONS, EXTRACTABLE PETROLEUM HYDROCARBONS, LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS, PETROLEUM HYDROCARBON FRACTIONS F1 TO F3, POLYCYCLIC AROMATIC HYDROCARBONS).
2. PREVIOUS FILL MATERIAL (PREVIOUS EXCAVATION BOUNDARY) TO BE SEGREGATED AS CLEAN OVERBURDEN WHERE REQUIRED.

DEPTH OF CONTAMINATION

- 0.6m
- 1.0m
- 1.5m
- 2.0m
- 2.5m
- 8.0m
- OVERBURDEN

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. A. GUEST #27393

May24/18

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

LEGEND

0 5 20 METRES

- FY 2018/2019 PROPOSED APPROXIMATE EXCAVATION LIMIT
- PREVIOUS EXCAVATION BOUNDARY
- FORMER SITE CONFIGURATION
- SITE FEATURE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- INJECTION POINT

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

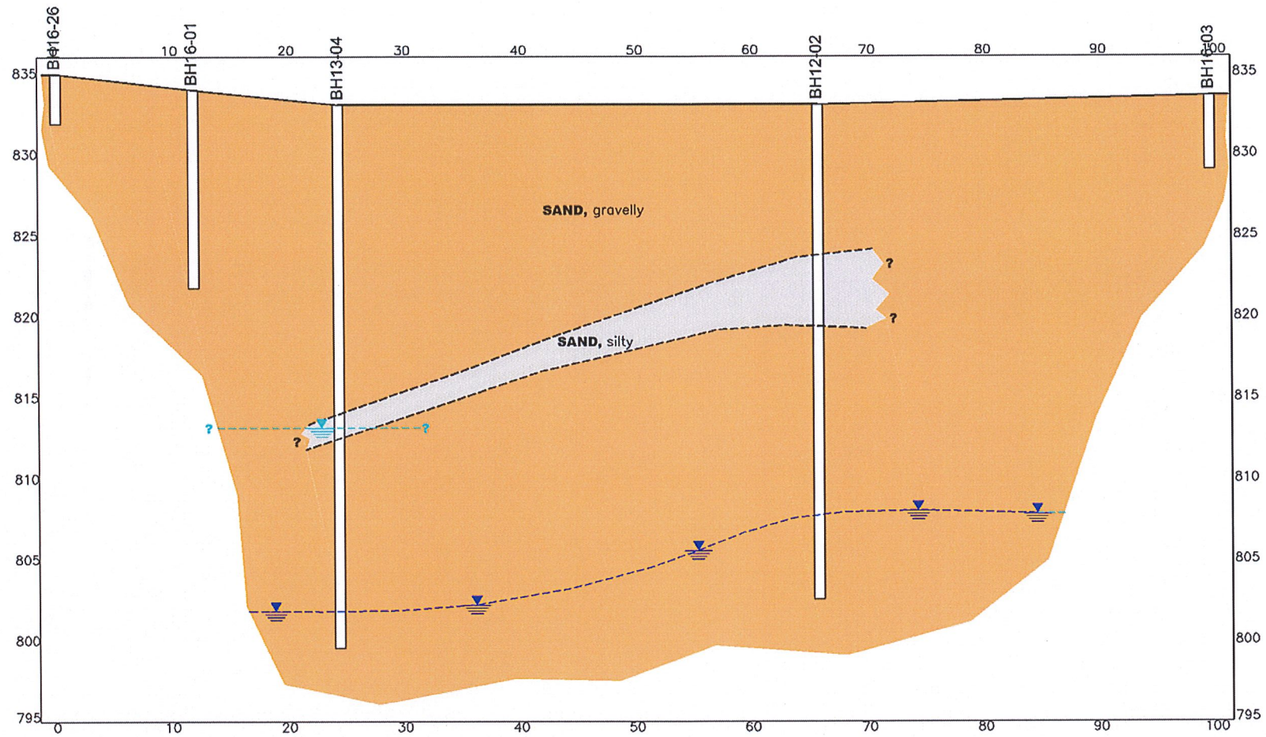
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **CONTAMINATED MATERIALS EXTENTS - AEC 3 & 6**

DWN BY: PES	SCALE: 1:400	DATE: 2018-03-22	DWG No: 636200-303C REV.: 1
CHK'D: CS	PLOT: 20180522.1226	CADFILE: 636200R18	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R18.DWG



A-A' 302 **SECTION**

HORIZONTAL SCALE
1:500 (m)

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. A. GUEST
#27306

May 24/18

NOTES

1. THE CROSS SECTION DEPICTED IS BASED ON INTERPRETATION OF LIMITED GEOLOGICAL DATA. ACTUAL GEOLOGICAL CONDITIONS MAY BE DIFFERENT FROM THOSE INTERPRETED.
2. REFER TO PLAN MAP 636200-302 FOR LOCATION OF CROSS SECTION LINE.
3. INFORMATION PRESENTED IS WITHIN 10m OF SECTION LINE UNLESS INDICATED OTHERWISE ON DRAWING.
4. ORIGINAL DRAWING IN COLOUR.
5. CROSS SECTIONS SHOWN ARE CONDITIONS PRIOR TO FY2016/2017 REMEDIAL EXCAVATION TO ILLUSTRATE NATIVE STRATIGRAPHY.

LEGEND

- **SAND,** gravelly
- **SAND,** silty
- INFERRED STRATIGRAPHIC BOUNDARY
- APPROXIMATE DEPTH OF LOWER PERCHED WATER TABLE
- APPROXIMATE DEPTH OF REGIONAL WATER TABLE

BOREHOLE LEGEND

00-1 END OF BOREHOLE

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

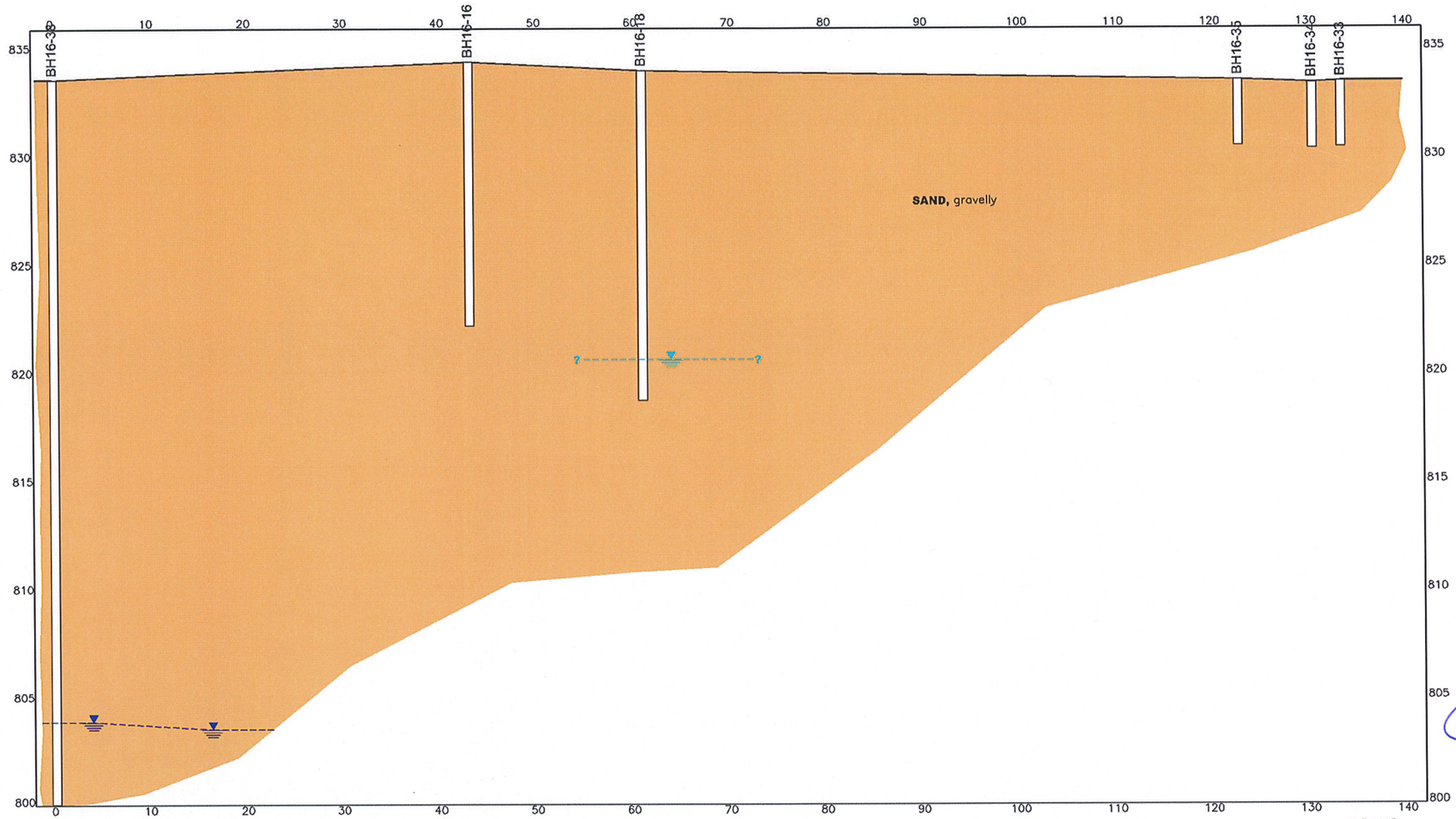
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE ALASKA HIGHWAY, BC

TITLE: **GEOLOGICAL CROSS SECTION A-A'**

DWN BY: PES	SCALE: AS NOTED	DATE: 2016-07-14	DWG No: REV.: 1
CHK'D: CT	PLOT: 20180522.1243	CADFILE: 636200X02	636200-304A

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200X02.DWG



B-B' / 302 **SECTION**
HORIZONTAL SCALE
1:500 (m)

NOTES

1. THE CROSS SECTION DEPICTED IS BASED ON INTERPRETATION OF LIMITED GEOLOGICAL DATA. ACTUAL GEOLOGICAL CONDITIONS MAY BE DIFFERENT FROM THOSE INTERPRETED.
2. REFER TO PLAN MAP 636200-302 FOR LOCATION OF CROSS SECTION LINE.
3. INFORMATION PRESENTED IS WITHIN 10m OF SECTION LINE UNLESS INDICATED OTHERWISE ON DRAWING.
4. ORIGINAL DRAWING IN COLOUR.
5. CROSS SECTIONS SHOWN ARE CONDITIONS PRIOR TO FY2016/2017 REMEDIAL EXCAVATION TO ILLUSTRATE NATIVE STRATIGRAPHY.

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. A. GUEST #27308

May 24/18

LEGEND

SAND, gravelly

APPROXIMATE DEPTH OF SHALLOW PERCHED WATER TABLE

APPROXIMATE DEPTH OF REGIONAL WATER TABLE

BOREHOLE LEGEND

00-1 — END OF BOREHOLE

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

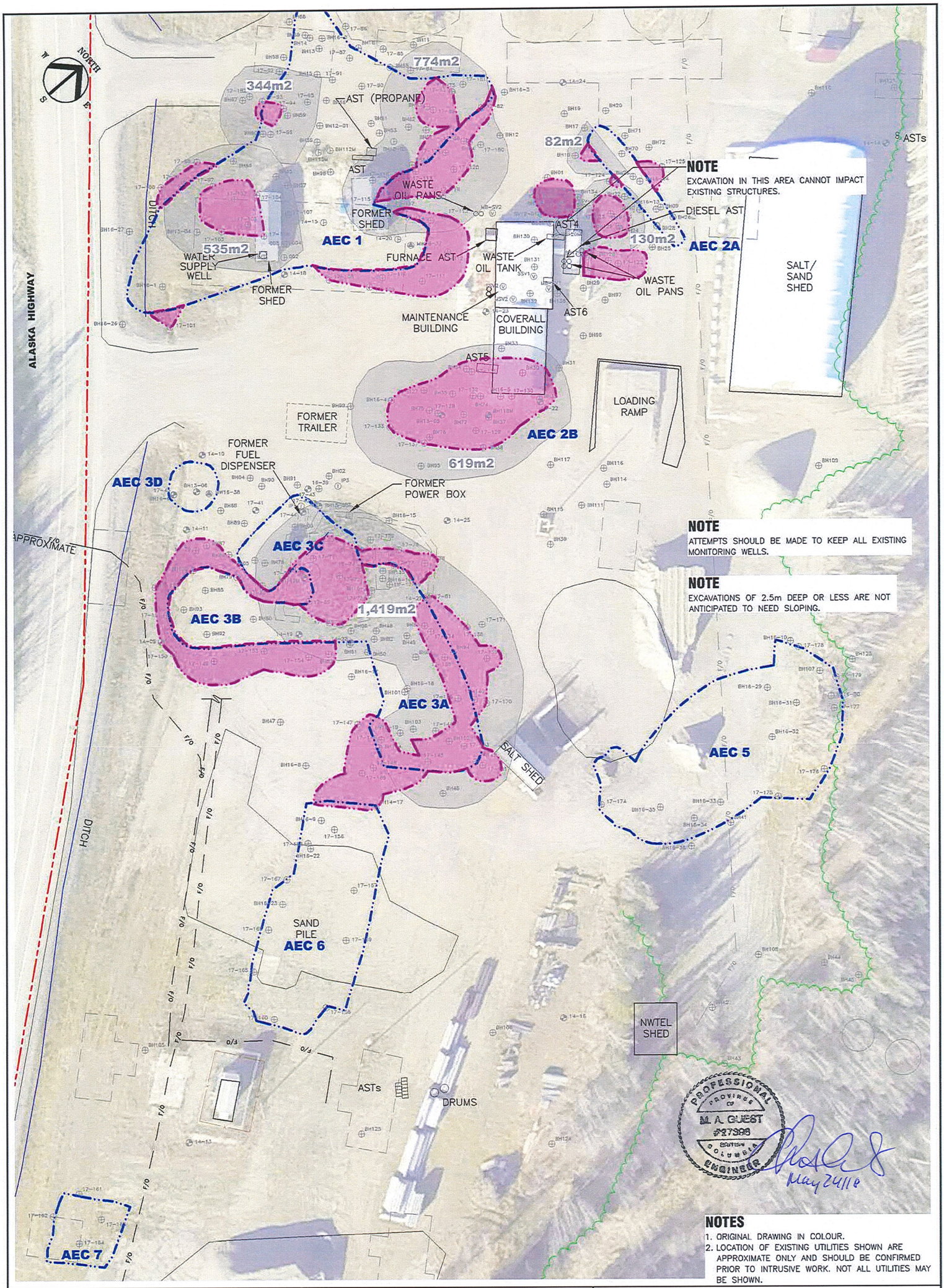
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE ALASKA HIGHWAY, BC

TITLE: **GEOLOGICAL CROSS SECTION B-B'**

DWN BY: PES	SCALE: AS NOTED	DATE: 2016-07-14	DWG No:	REV.: 1
CHK'D: CT	PLOT: 20180522.1245	CADFILE: 636200X02	636200-304B	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200X02.DWG



NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

LEGEND (0 10 20 30 40 METRES)

- SUBJECT PROPERTY LIMITS
- TREE LINE
- FENCE
- FORMER SITE CONFIGURATION
- SITE FEATURE
- PREVIOUS EXCAVATION BOUNDARY
- FY 2018/2019 PROPOSED APPROXIMATE EXCAVATION LIMIT
- ANTICIPATED EXTENT OF SLOPING/SHORING REQUIREMENTS
- FIBRE OPTIC LINE – UNDERGROUND APPROXIMATE CUT LINE
- FIBRE OPTIC LINE – OVERHEAD
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- INJECTION POINT

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-05-22	ISSUED TO CLIENT	PES	MG

SNC·LAVALIN

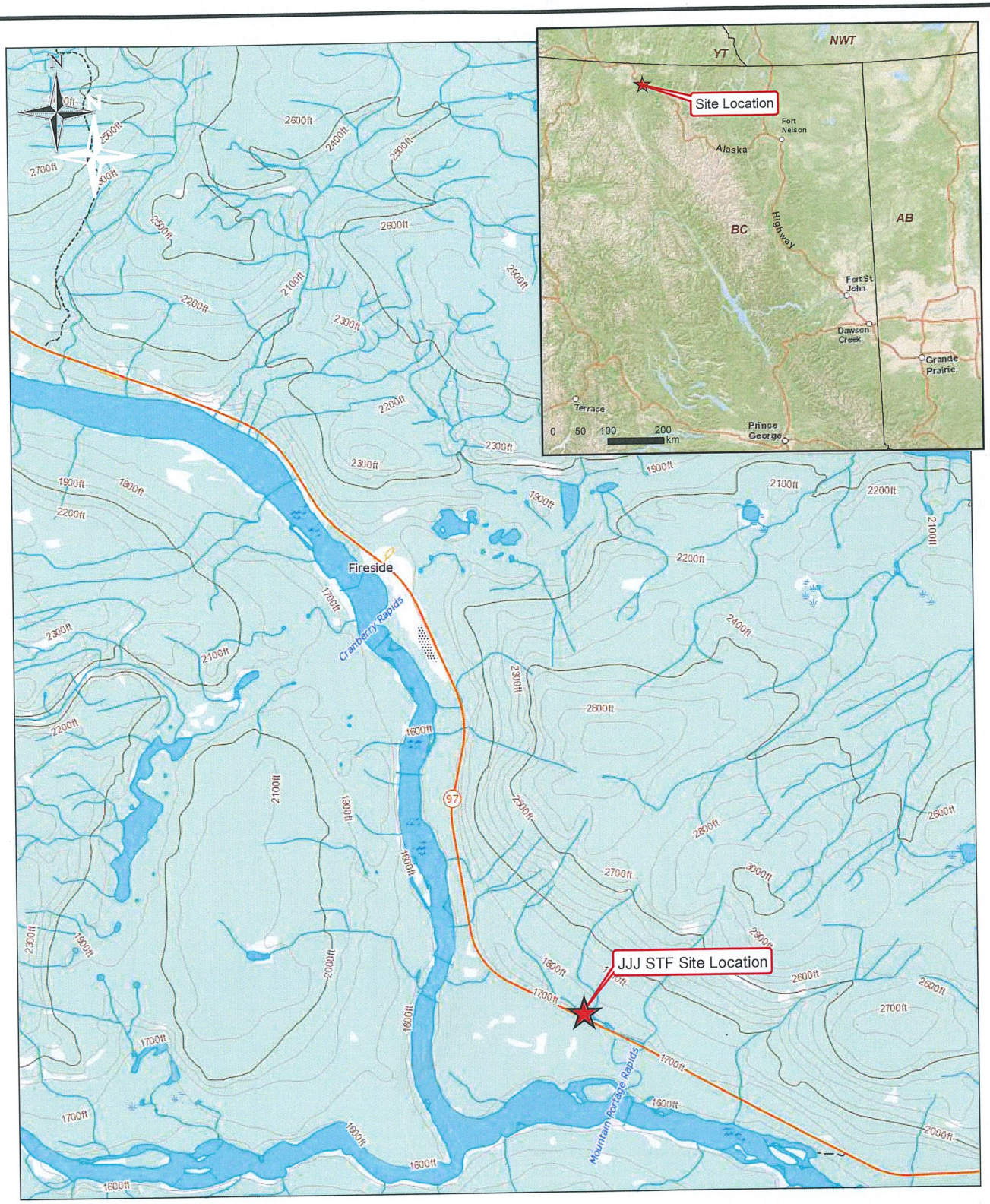
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **SLOPING/SHORING REQUIREMENTS**

DWN BY: PES	SCALE: 1:800	DATE: 2018-05-22	DWG No: 636200-305 REV.: 0
CHK'D: MG	PLOT: 20180523.1437	CADFILE: 636200R18	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R18.DWG



LEGEND

★ Site Location

NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Printscaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. A. GUEST #27398

May 24/18

SNC · LAVALIN

CLIENT NAME:	PROJECT LOCATION:
Public Works and Government Services Canada	JJJ STF Alaska Highway, BC

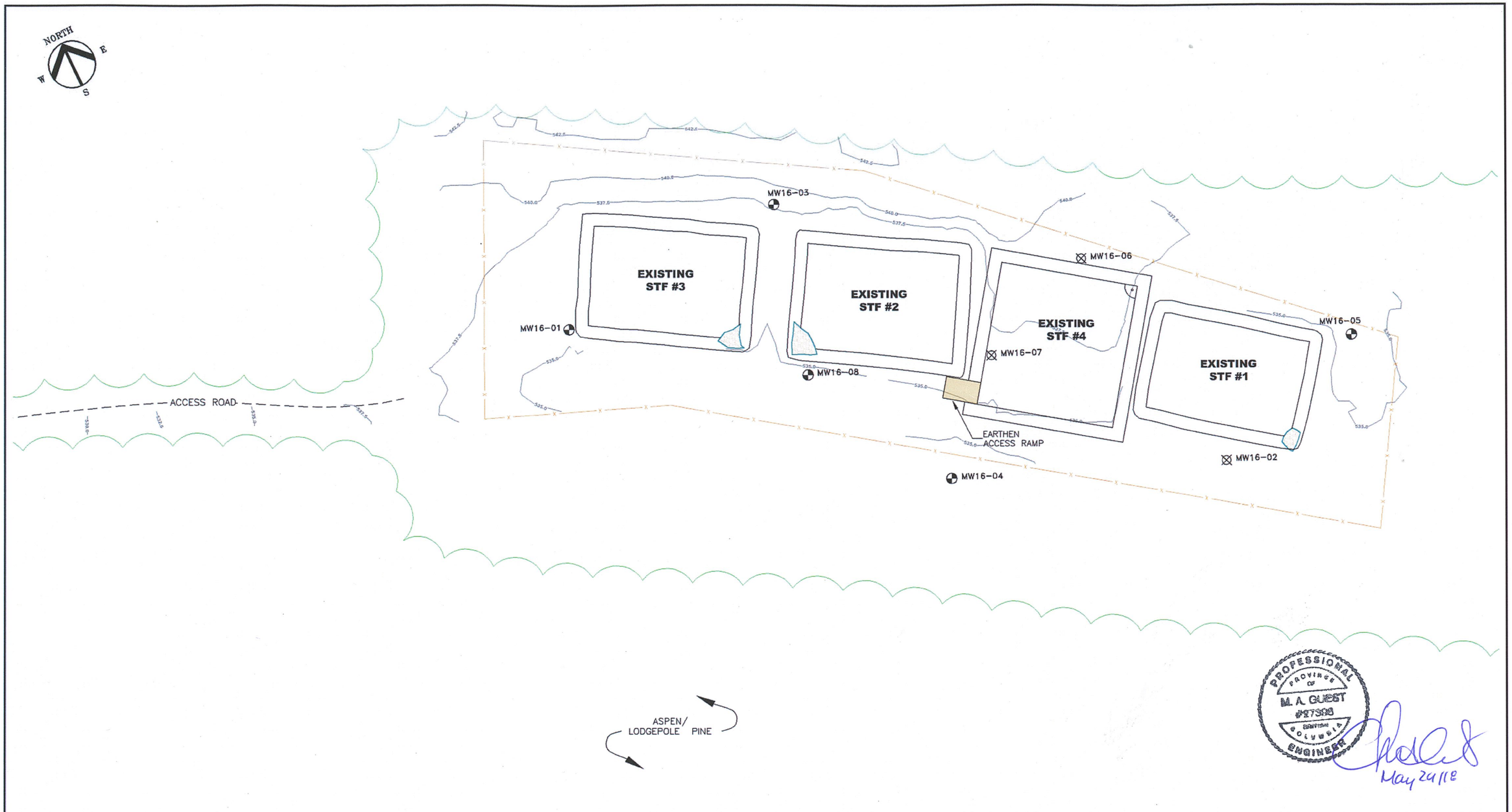
JJJ STF Site Location

0 0.5 1 2 3 4 Kilometers

BY PB	DATE: 2017-03-03	REF No: 636200-306	REV: 0
CHK'D: CS	SCALE: 1:50,000		

MXD Path: P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside\4.0 Execution\4.5 GIS and Drawings (Secure)\GIS\MapSeries\623385-001.mxd

Project Path: "P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside"



LEGEND

0 25 50 75 METRES

- TREE LINE (APPROX.)
- MONITORING WELL LOCATION
- MONITORING WELL TO BE DECOMMISSIONED
- DECOMMISSIONED MONITORING WELL
- FENCE
- SOIL BERM
- SOIL PILE
- LEACHATE COLLECTION SYSTEM
- TOPOGRAPHICAL LINE AND ELEVATION (masl)

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
IMAGERY	1969	GOOGLE EARTH

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

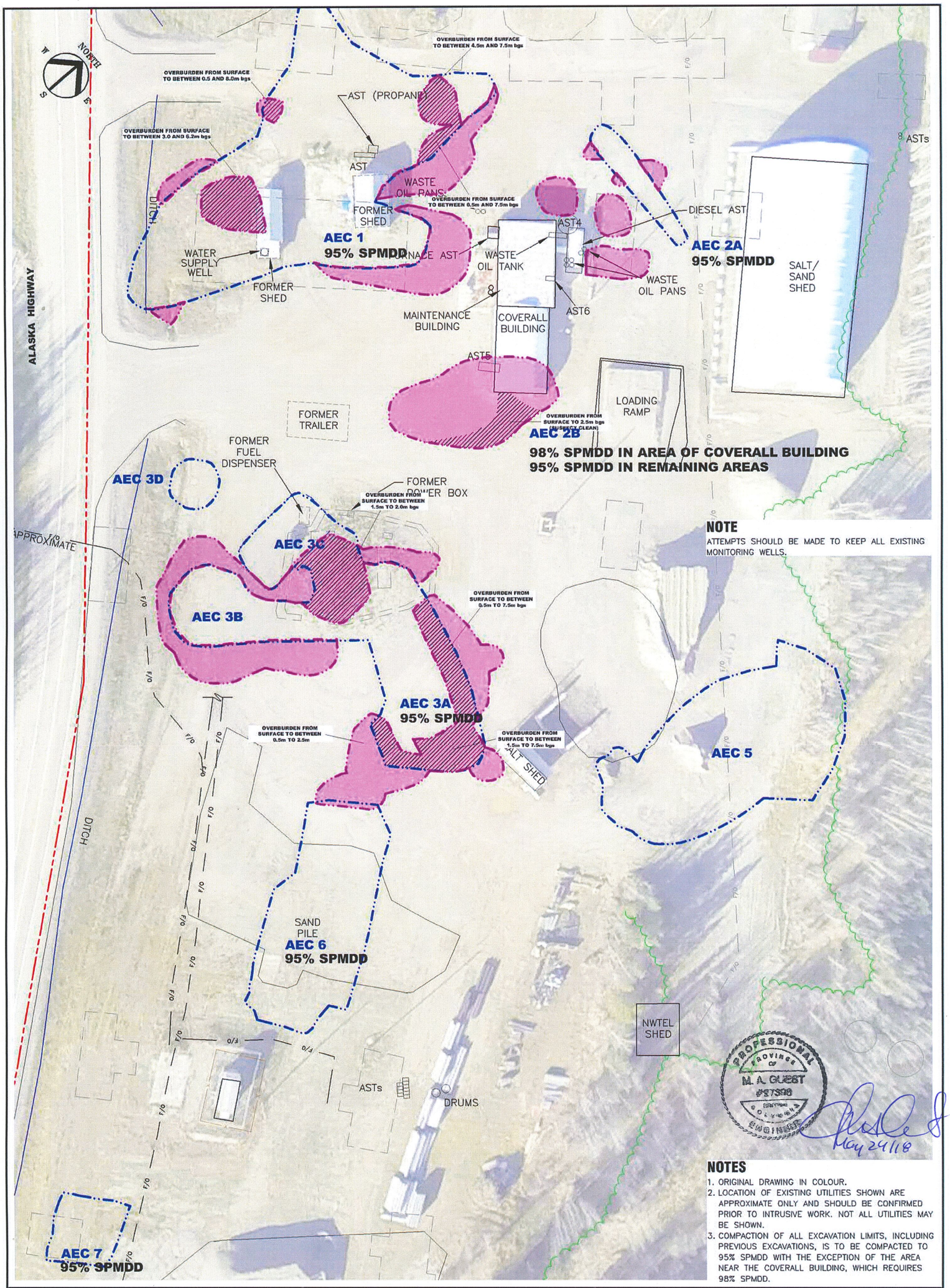
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: JJJ GRAVEL PIT, KM 839 ALASKA HIGHWAY, FIRESIDE, B.C.

TITLE: **SITE PLAN - JJJ GRAVEL PIT**

DWN BY: PES	SCALE: 1:1,500	DATE: 2018-03-29	DWG No: 636200-307 REV.: 1
CHK'D: CS	PLOT: 20180523.1442	CADFILE: 636200R18	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R18.DWG



NOTE

ATTEMPTS SHOULD BE MADE TO KEEP ALL EXISTING MONITORING WELLS.

PROFESSIONAL PROVINCE OF M. A. GUEST #37398 BRITISH COLUMBIA ENGINEER

May 24/18

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. COMPACTION OF ALL EXCAVATION LIMITS, INCLUDING PREVIOUS EXCAVATIONS, IS TO BE COMPACTED TO 95% SPMDD WITH THE EXCEPTION OF THE AREA NEAR THE COVERALL BUILDING, WHICH REQUIRES 98% SPMDD.

LEGEND (0 10 20 30 40 METRES)

- SUBJECT PROPERTY LIMITS
- TREE LINE
- FENCE
- FORMER SITE CONFIGURATION
- SITE FEATURE
- PREVIOUS EXCAVATION BOUNDARY
- FY 2018/2019 PROPOSED APPROXIMATE EXCAVATION LIMIT
- F/O — FIBRE OPTIC LINE – UNDERGROUND APPROXIMATE CUT LINE
- F/O — FIBRE OPTIC LINE – OVERHEAD

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-05-22	ISSUED TO CLIENT	PES	MG
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	MG

SNC·LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **SITE RESTORATION**

DWN BY: PES | SCALE: 1:800 | DATE: 2018-03-28 | DWG No: 636200-308 | REV.: 1

CHK'D: CS | PLOT: 20180523.1441 | CADFILE: 636200R18

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R18.DWG

Appendix No.	Appendix Title
A	Environmental Investigations - Draft FY 2017/2018 Remedial Excavation, Fireside Maintenance Camp, Alaska Highway, BC – PSPC Project # R.018388.006/007, dated March 26, 2017

FY2017/2018 Remedial Excavation

Fireside Maintenance Camp

Alaska Highway, BC (PSPC Project No. R.018388.006/007)

March 26, 2018

Internal Ref: 636200

Prepared for:

Public Services and Procurement Canada

DRAFT

Prepared By:

Christine Stokes, P.Ag.
Project Scientist
Environment & Geoscience
Infrastructure

Reviewed By:

Meredith Guest, P.Eng.
Senior Project Manager
Environment & Geoscience
Infrastructure

David Kettlewell, M.Sc., P.Geo., CSAP
Senior Project Manager
Environment & Geoscience
Infrastructure

© Her Majesty the Queen in Right of Canada (2018)

SNC·LAVALIN

Executive Summary

On behalf of Public Services and Procurement Canada (PSPC), SNC-Lavalin Inc. (SNC-Lavalin) has prepared the following Remedial Excavation summary report for the Fireside Maintenance Camp, kilometer 839, Alaska Highway (the "Site").

The objective of the FY 2017/2018 remedial excavation was to reduce the petroleum hydrocarbon (PHC) contaminant mass by excavation of contaminated soil above eight meters below ground surface (bgs) at three areas of environmental concern (AECs) to support mitigation of future risk.

Prior to the start of the FY 2017/2018 remedial activities, a drilling investigation was completed to obtain remedial excavation confirmatory samples in advance of excavation activities. Between October 4 and 14, 2017, SNC-Lavalin directed the advancement of 114 boreholes. The boreholes were advanced to depths ranging from 1 m to 8 m bgs using a vibratory sonic drill rig and soil samples were collected directly from the sonic core bags. The results of this program guided the FY 2017/2018 remedial activities and will support future remedial planning. The results of the confirmatory drilling investigation did not achieve delineation in isolated areas of AECs 1, 2, 3, 5, 6 and 7. Additional delineation work at AECs 1, 2 and 3 will be completed in FY 2018/2019 in advance to the remedial excavation of these AECs. Further, delineation was not achieved in the north-end of the AEC 5 proposed excavation limits, the north-west end of the AEC 6 proposed excavation limits and the north-end of the AEC 7 proposed excavation limits.

Public Services and Procurement Canada retained Matcon to perform the remedial excavation and construct a new soil treatment facility (STF). The remedial excavation and STF construction was conducted on-Site between November 22 and December 7, 2017. Prior to the start of the remedial excavation activities, test-pits were advanced at step-outs from the residual impacts identified at AEC 5, AEC 6 and AEC 7 during the drilling investigation. In addition, four test-pits were advanced to collect confirmatory samples from the excavation floor (and to confirm the maximum depth of the proposed excavation) at AEC 6 and AEC 7. In total, eight test-pits were advanced to a depths ranging from 1.5 m to 3 m bgs using a track-mounted excavator. Soil samples were collected directly from the excavator bucket.

The remediation excavation removed 4,795.05 tonnes[1] of contaminated soil from AECs 5, 6 and 7. The contaminated soil was transported to the newly constructed STF (i.e., STF #4) located at the JJJ Gravel Pit. Throughout the remedial activities soil sample locations and the excavation limits (pre-excavation, as they progressed, post-excavation and post-backfilling) were surveyed by SNC-Lavalin using total station equipment. The final excavation limits extended beyond the proposed excavation limits in several areas, largely due to the frost layer. In addition to the contaminated soil excavated, 59.2 tonnes of non-contaminated material (8.2 tonnes of metal and 51 tonnes of concrete with rebar) was transported off-Site and disposed of at Northern Enviro Services in Watson Lake, Yukon. The excavations were backfilled using material sourced from the PSPC JJJ Gravel Pit and approved by SNC-Lavalin.

The soil samples collected during the confirmatory drilling investigation provided the confirmatory results for the remedial excavations completed at AECs 5, 6 and 7. As such, excavation confirmatory soil samples were only collected in areas where the drilling investigation identified contamination and the remedial excavation subsequently removed those impacts.

[1] Conversation factor used is 1.95 tonnes/m^3.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

Results of the confirmatory soil sampling (both drilling and post-excavation soil sampling) indicated that the contamination previously identified in AEC 5 and AEC 7 has been fully remediated. Soils within these two AECs are now within the applicable Canadian Council of Ministers of the Environment (CCME) and provincial Contaminated Sites Regulation (CSR) residential land use guidelines/standards.

Following the completion of the excavation at AEC 6, residual impacts were identified along the northern limit at a depth of 0.5 m to 0.6 m bgs. Further, the confirmatory drilling did not achieve the delineation of previously identified areas of residual contamination at AECs 1, 2 and 3. The table below summarizes the residual impacts remaining in the excavated areas (both FY 2016/2017 and 2017/2018) at the Site.

Summary of Residual Petroleum Hydrocarbon Contamination

AEC	Results
1	Impacts remain at several locations on the floor of the excavation (4.5 m to 8.0 m bgs) near the centre of the excavation footprint and towards the eastern limit. These impacts are delineated. Surficial impacts remain along the south eastern excavation limit (0.4 m bgs). Deeper impacts remain north of this, along the eastern limit to depths of approximatley 7.5 m bgs. General delineation of these impacts have been achieved. Nominal shallow hydrocarbon impacts are present at a few locations along the western excavation limit. These impacts have been delineated.
2	Within the area of AEC 2 northeast of the Maintenance Building, localized nominal toluene impacts remain in soil between 0.5 m and 3.0 m bgs. One location along each of the northern and the southern limit of the previous excavation have residual PHC impacts at surface (0.5 m bgs) and are delineated. Additional impacts between surface and 3 m bgs have been confirmed near the northeast corner of the Maintenance Building and fuelling facilities. These additional impacts between surface and 3 m bgs are not delineated. Within the area of AEC 2, at the southeast corner of the Coverall Building, impacts between surface and 8 m bgs have been confirmed. In general, delineation of the deeper impacts (between 1.5 m and 8 m bgs) have been delineated. Impacts between surface and 1.5 m bgs extending towards the north (beneath the Coverall Building) have not been delineated. Further, impacts between 2.5 and 6.5 m bgs extending towards the east have not been laterally delineated.
3	Surficial impacts remain along the southwestern excavation limit between surface and 0.5 m bgs. Partial delineation of these impacts has been achieved. Impacts remain in the southeastern portion of the excavation limit between 0.5 m and 8.0 m bgs. The impacts below 2 m bgs are generally delineated. Surficial impacts between 0.5 m and 2.0 m bgs are not delineated. Impacts along the floor of the excavation (between 1.8 m and 8 m bgs) remain in the central-north portion of the excavation.
6	Surficial impacts remain along the northern limit between 0.5 m and 0.6 m bgs.

AEC – area of environmental contamination

Overall select areas with PHC contamination between surface and 3 m bgs remain un-delineated in AECs 1, 2, 3 and 6. The remaining impacts between surface and 8 m bgs are planned to be excavated during FY 2018/2019 with the exception of the impacts at the northeastern corner of the Maintenance Building (AEC 2) where due to access constraints, the contamination in this area of the Site will be addressed by risk assessment.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

Table of Contents

Executive Summary i

1 Introduction 1

1.1 Background 1
1.2 Objectives 1
1.3 Scope of Work 2

2 Regulatory Framework 4

2.1 Federal Guidelines 4
2.2 Provincial Standards 5

3 Methodology 6

3.1 Completion of Technical Specifications 6
3.2 Confirmatory Drilling Investigation 6
3.3 Excavation Monitoring and Soil Sampling 7
3.4 Soil Treatment Facility Construction 8
3.5 Quality Assurance / Quality Control 9

4 Results 11

4.1 Soil Stratigraphy 11
4.2 Confirmatory Drilling Investigation 11
4.2.1 Soil Analytical Results 11
4.2.1.1 Hydrocarbons and PAHs 12
4.2.1.2 Inorganics 14
4.2.2 Quality Assurance / Quality Control 14
4.3 Remedial Excavation 15
4.3.1 Soil Analytical Results 15
4.3.1.1 Hydrocarbons and PAHs 15
4.3.1.1.1 Pre-Excavation Test-Pitting 15
4.3.1.1.2 Confirmatory Soil Sampling 16
4.3.2 Excavation Backfill Results 16
4.3.3 Quality Assurance / Quality Control 16

5 Conclusions 17

6 Notice to Reader 19

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

Table of Contents (cont'd)

In-Text Tables

Table A: Borehole Locations and Rationale 6
Table B: Summary of Residual Petroleum Hydrocarbon Contamination 17

Tables

1: Summary of Analytical Results for Hydrocarbons in Soil
2: Summary of Analytical Results for PAHs in Soil
3: Summary of Analytical Results for Metals in Soil
4: Summary of Analytical Results for Soil Salinity
5: Summary of Analytical Results for VOCs in Soil
6: Summary of Analytical Results for PCBs in Soil
7: Summary of Analytical Results for Glycols in Soil
8: Excavation Sample Log
9: Summary of Analytical Results for Soil – Hydrocarbons – Confirmatory Excavation Samples
10: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – Confirmatory Excavation Samples
11: Summary of Analytical Results for Soil – Total Metals – Confirmatory Excavation Samples
12: Summary of Analytical Results for Soil – Hydrocarbons – Interim Excavation Samples
13: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – Interim Excavation Samples
14: Sample Log – Import Backfill
15: Summary of Analytical Results for Soil – Hydrocarbons – Import Backfill
16: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – Import Backfill
17: Summary of Analytical Results for Soil – Total Metals – Import Backfill
18: Summary of Analytical Results for Hydrocarbons in Groundwater
19: Summary of Analytical Results for PAHs in Groundwater
20: Summary of Analytical Results for Dissolved Inorganics in Groundwater
21: Summary of Analytical Results for Dissolved Metals in Groundwater
22: Summary of Analytical Results for Total Metals in Groundwater
23: Summary of Analytical Results for VOCs in Groundwater
24: Summary of Analytical Results for Glycols in Groundwater
25: Summary of Analytical Results for Drinking Water – Hydrocarbons
26: Summary of Analytical Results for Drinking Water – Polycyclic Aromatic Hydrocarbons
27: Summary of Analytical Results for Drinking Water – Physical Parameters, Inorganics and Total Metals
28: Summary of Analytical Results for Drinking Water – Microbiological Parameters
29: Summary of Analytical Results for Soil Vapour
30: Summary of Analytical Results for Estimated Indoor Air Concentrations
31: Summary of Analytical Results for Estimated Outdoor Air Concentrations
32: Summary of Analytical Results for Ambient Air
33: Surface Sample Log – JJJ Gravel Pit

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

Table of Contents (cont'd)

34: Summary of Analytical Results for Soil – Hydrocarbons – JJJ Gravel Pit
35: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – JJJ Gravel Pit
36: Summary of Analytical Results for Soil – Total Metals – JJJ Gravel Pit
37: Summary of Analytical Results for Groundwater – Hydrocarbons – JJJ Gravel Pit
38: Summary of Analytical Results for Groundwater – Polycyclic Aromatic Hydrocarbons – JJJ Gravel Pit
39: Summary of Analytical Results for Groundwater – Dissolved Metals – JJJ Gravel Pit

Drawings

› 636200-1001 Fireside Maintenance Camp Site Location
› 636200-1002 Site Plan
› 636200-1003 Detailed Soil Analytical Results – Remedial Excavation – AEC 1
› 636200-1004 Detailed Soil Analytical Results – Remedial Excavation – AEC 2
› 636200-1005 Detailed Soil Analytical Results – Remedial Excavation – AEC 3
› 636200-1006 Detailed Soil Analytical Results – Remedial Excavation – AEC 5
› 636200-1007 Detailed Soil Analytical Results – Remedial Excavation – AEC 6 and AEC 7
› 636200-1008 JJJ STF Site Location
› 636200-1009 Site Plan – JJJ Gravel Pit
› 636200-1010 Soil Treatment Facility #4 Design Specifications

Appendices

I: Site Photographs
II: Borehole Logs
III: Contractor Submittals
IV: Site Summary Drawings
V: Analytical Laboratory Reports (not included in Draft version)

DRAFT

P:\CP\PWGSC\636200 FIRESIDE\5.0 DELIVERABLES\5.2 DRAFT REPORTS\FY2017-2018 REMEDIATION\20180326_636200_RPT_REM EXC_DRAFT.DOCX

© Her Majesty the Queen in Right of Canada (2018)

1 Introduction

On behalf of Public Services and Procurement Canada (PSPC), SNC-Lavalin Inc. (SNC-Lavalin) has prepared the following Remedial Excavation summary report for the Fireside Maintenance Camp, kilometer 839, Alaska Highway (the "Site"). The Site location is shown on Drawing 636200-1001.

All work was conducted in accordance with the SNC-Lavalin FY 2017/2018 Work Plan for Remedial Oversight dated August 8[2] and September 26[3], 2017, under the Environmental Site Characterization Contract No. EZ897-170838/002/PWY with PSPC Project No. R.018388.006/007 and Task Authorization No. TA700390188.

1.1 Background

The Fireside Maintenance Camp is located approximately 240 km northwest of Fort Nelson, BC, and 150 km southwest of Watson Lake, YT. As outlined in previous investigations, residual petroleum hydrocarbon (PHC) contamination has been identified within surface soil and subsoil at several locations within the operational area of the Site. The contamination is likely related to above ground releases from former above ground storage tanks (ASTs), material storage, and other site activities. The surface impacts are considered a priority for remediation due to their potential for increased human health or ecological risk. Residual PHC impacts in subsoil are being addressed opportunistically by removal, where practicable, during excavation of surface soil impacts. Impacted soil below the excavation limits and within the groundwater smear zone will be addressed through an *in situ* remediation program.

Other contamination identified at the Site includes several trace metals in soil. These impacts are widely distributed spatially and with depth, and no obvious sources have been identified. Therefore, these impacts are anticipated to be consistent with the range of regional background concentrations and may be the result of localized mineral occurrences in the samples. As such, trace metals impacts will be addressed separately as background of via risk assessment.

Due to past activities at the Site related to road salt storage, loading and transport, previous investigations have identified salinity-related impacts (i.e., concentrations of chlorine, sodium and electrical conductivity greater than the applicable guidelines and/or standards). The storage and management of salt is an on-going activity at the Site but is essentially confined to a covered, and lined, salt storage facility. The assessment of salt related impacts is anticipated to be addressed in the future through risk assessment.

1.2 Objectives

The objective of the FY 2017/2018 remedial excavation was to reduce the petroleum hydrocarbon (PHC) contaminant mass by excavation of contaminated soil above eight meters (m) below ground surface (bgs) at three areas of environmental concern (AECs) to support mitigation of future risk.

DRAFT

[2] SNC-Lavalin Inc. 2017. *FY 2017/2018 Work Plan for Remedial Oversight, Fireside Maintenance Camp, Km 839, Alaska Highway, BC.* August 8, 2017.
[3] SNC-Lavalin Inc. 2017. *FY 2017/2018 Work Plan for Remedial Oversight, Fireside Maintenance Camp, Km 839, Alaska Highway, BC.* September 26, 2017.

© Her Majesty the Queen in Right of Canada (2018)

1.3 Scope of Work

Prior to the completion of the FY 2017/2018 remedial activities, a drilling investigation was completed to obtain remedial excavation confirmatory samples in advance of excavation activities. The results of this program guided the FY 2017/2018 remedial activities and will help facilitate the remedial excavation planned for FY 2018/2019. The scope of work for the drilling investigation included the following:

- The preparation of a site specific Health and Safety Plan (HASP).
- The completion of private, 3rd party utility locates. The utility locates were completed on October 4, 2017 by Underworld Line Locating Ltd. (Underworld) located in Fort St. John, BC.
- The advancement of 114 boreholes (locations 17-69 through 17-182) to depths ranging from 0.5 m to 8 m bgs using sonic technologies provided by Geotech Drilling Services Ltd. (Geotech) of Prince George, BC between October 4 and 14, 2017.
- The collection of soil samples from key depth intervals. Soil samples were submitted to AGAT Laboratories (AGAT) under chain-of-custody documentation for selective analysis of benzene, toluene, ethylbenzene and total xylenes (BTEX), volatile petroleum hydrocarbons (VPH), light and heavy extractable petroleum hydrocarbons (LEPH and HEPH, respectively), petroleum hydrocarbon fractions F1 to F4, polycyclic aromatic hydrocarbons (PAHs) and/or metals.
- All borehole locations were surveyed using a total station.

Public Services and Procurement Canada retained Matcon Environmental Ltd. (Matcon) to complete the FY 2017/2018 remedial activities. Matcon carried out the remedial construction activities between November 20 and December 7, 2017. The consulting services completed by SNC-Lavalin in support of the remediation program included the following tasks:

- Tender support was provided to PSPC and included attending the bidders meeting and support responding to inquiries from the contractor regarding the specifications.
- Monitored Matcon's compliance with the specifications and submissions including the HASP and the environmental protection plan (EPP).
- Oversight during the construction of one soil treatment facility (STF) at the JJJ Gravel Pit located approximately 4 km south of the Site.
- The decommissioning of three groundwater monitoring wells located at the JJJ Gravel Pit.
- Oversight during the excavation of PHC impacted soils from three AECs (i.e., AECs 5, 6 and 7) to the pre-determined limits.
- The collection of confirmatory soil samples, where necessary, from the side walls and floor of the excavation. Samples were shipped to AGAT following chain-of-custody documentation for selective analysis of PHCs.
- Monitored Matcon's compliance with the geotechnical requirements including the stability and safety of excavation sloping, backfilling and compaction.
- Provided guidance regarding the excavation limits based on spatial controls which included drawings, excavation progress monitoring by survey (i.e., total station) and field observations.
- Monitored Matcon's progress by tracking Unit Price Table (UPT) quantities during the remedial excavation.
- The preparation of daily progress reports outlining the status of construction compliance, environmental compliance and progress monitoring.
- Oversight of the handling, transportation and placement of the PHC impacted soils at the newly constructed STF.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

- Completion of a final survey of the newly constructed STF, the final excavation limits and the confirmatory soil sample locations.
- Preparation of this summary report.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

2 Regulatory Framework

The site is currently managed under federal custodianship and as such federal guidelines are considered applicable at the Site. As the lands may be transferred back to the Province in future provincial standards are also considered applicable to the Site. Both federal guidelines and provincial standards are presented throughout the report.

Based on our current understanding of the geology, hydrogeology, current and future land/water uses, applicable Site-specific factors, and in consultation with PSPC to meet the remedial objectives, the soil and groundwater samples collected during the remedial excavation and previous investigations were compared to the applicable guidelines/standards provided in the following federal documents:

- *Canadian Environmental Quality Guidelines* (CEQG), Canadian Council of Ministers of the Environment (CCME), Winnipeg, MB, including updates to 2017.
- *Canada Wide Standards for Petroleum Hydrocarbons* (CWSPHC) in Soil, Canadian Council of Ministers of the Environment (CCME), Winnipeg, MB. January 2008.
- Health Canada *Canadian Drinking Water Quality Guidelines* (CDWQG). October 2014.
- Guidance Document on *Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites* (FIGQG), Environment Canada. Version 3, November 2015.

For comparison purposes, the soil and groundwater analytical results were compared to the applicable standards provided in the following provincial documents. In addition, there are substances that may occur at the Site for which no federal standards or guidelines exist, but for which provincial standards or guidelines do exist.

- *Contaminated Sites Regulation* (CSR), B.C. Reg. 375/96, includes amendments up to B.C. Reg. 196/2017, November 1, 2017.
- *Hazardous Waste Regulation* (HWR), B.C. Reg. 63/88, including amendments up to B.C. Reg. 243/2016, November 1, 2017.

DRAFT

2.1 Federal Guidelines

The current federal land use of the Fireside Maintenance Camp property is considered residential and parkland (RL/PL), as: a) residential units are present on the property; and b) a portion of the property is anticipated to remain expressly natural and provide habitat and food to wildlife. Federal RL/PL guidelines were the primary criteria used to evaluate analytical results for samples collected at the Site.

The FGQG Tier 2 numerical guidelines applied are protective of human soil ingestion, inhalation by humans, ecological soil contact, ecological soil and food ingestion, nutrient and energy cycling, and freshwater aquatic life. The CDWQ guidelines are applied to groundwater as currently, drinking water is supplied by an on-Site supply well. Currently, there are no applicable federal guidelines for soil vapour and/or air quality.

© Her Majesty the Queen in Right of Canada (2018)

2.2 Provincial Standards

The applicable provincial land use for the Fireside Maintenance Camp property would be low-density residential (RLLD) The provincial CSR RLLD standards are applicable for soil less than or equal to 3 m deep with the CSR industrial (IL) land use standards used for soils beyond 3 m below grade.

Soil guidelines are protective of potable water, human soil ingestion, ecological soil contact, ecological soil and food ingestion, vapour inhalation, and freshwater aquatic life.

Groundwater samples will be compared to CSR freshwater aquatic life (AW) and drinking water (DW) standards. Groundwater at the Site is not used for irrigation or livestock watering. Soil vapour samples are compared to CSR RL standards, for indoor and outdoor air concentrations, in accordance with BC Ministry of Environment & Climate Change Strategy (ENV) Technical Guidance Document 4[4] (TG4).

DRAFT

[4] Technical Guidance Document 4: *Vapour Investigation and Remediation,* MoE, Version 1, September 2010.

© Her Majesty the Queen in Right of Canada (2018)

3 Methodology

The following sections describe the methodology for the confirmatory drilling investigation and remedial excavation undertaken at the Site. All field work was completed in general accordance with SNC-Lavalin's Preferred Operating Procedures (POPs). Photographs taken during the completion of the investigation are provided in Appendix I.

3.1 Completion of Technical Specifications

SNC-Lavalin developed technical specifications for the FY 2017/2018 remediation[5]. These specifications were developed to support PSPC in tendering a contractor for the completion of the work. The final specification package was submitted for tender on October 3, 2017.

3.2 Confirmatory Drilling Investigation

A confirmatory drilling program as completed at the Site from October 4 to 14, 2017. The borehole locations were chosen to achieve delineation of the residual impacts identified during the FY 2017/2018 DGI and the FY 2016/2017 remedial excavation and provide confirmatory soil sample information for the upcoming remedial excavation. The rational for the boreholes advanced during the confirmatory drilling investigation are summarized in the table below. The locations are shown on Drawing 636200-1002 through 636200-1007.

DRAFT

Table A: Borehole Locations and Rationale

AEC	Borehole ID	Rationale
1	17-82 to 17-120, 17-180 to 17-182	Provide delienation of residual contamination identified during the FY 2016/2017 remedial excavation.
2	17-124 and 17-125	Provide delienation of residual contamination identified during the FY 2016/2017 remedial excavation.
	17-122, 17-123, 17-126 to 17-133 and 17-137	To further characterize the soil impacts in the vicinity of the Maintenance Building.
3	17-69 to 17-81, 17-133 to 17-136, 17-138 to 17-155,	Provide delienation of residual contamination identified during the FY 2016/2017 remedial excavation.
	17-169	Step out of 17-148.
	17-170	Step out of 17-140.
	17-171	Step out of 17-138.
	17-176	Step out of 17-75.

[5] SNC-Lavalin Inc. 2017. Technical Specifications for Site Remediation, Fireside Maintenance Camp, KM 839, Alaska Highway, BC.

© Her Majesty the Queen in Right of Canada (2018)

Table A (cont'd): Borehole Locations and Rationale

AEC	Borehole ID	Rationale
5	17-173 to 17-179	Provide delienation of residual contamination identified during the FY 2016/2017 remedial excavation.
6	17-156 to 17-160 and 17-165 to 17-168	To pre-determine excavation limits at AEC 6.
7	17-161 to 17-164	To pre-determine excavation limits at AEC 7.

FY – fiscal year AEC – area of environmental contamination

Prior to the advancement of any boreholes, all underground utilities within the work area were located by Underworld on October 4, 2017. SNC-Lavalin directed the advancement of 114 boreholes (17-69 through 17-182) by Geotech across the Site to depths ranging from 1 m to 8 m bgs using a vibratory sonic drill rig. Soil samples were collected directly from the sonic core bags.

During soil sampling, SNC-Lavalin logged the soil type, colour, apparent density and moisture content. Representative soil samples were collected from each borehole at regular intervals and from distinct soil layers and were field screened (dry headspace method, using an Eagle RKI) for hydrocarbon vapour. For the targeted sample depths, a portion of each soil sample was collected using a Terra Core™ and was placed in a 40 mL vial pre-filled with 10 ml of methanol. A second portion of soil from the sample was placed into 125 mL laboratory-prepared glass jars with Teflon®-lined lids and filled until zero headspace remained. The samples were stored in ice-chilled coolers and submitted to AGAT for analysis of BTEX, VPH, LEPH, HEPH, PHC 1 to 4 and PAHs. Selected samples were also analysed for concentrations of total metals. Details of the soil stratigraphy encountered and sampling depths are provided on the borehole logs provided in Appendix II.

Following completion of the drilling investigation, the horizontal and vertical coordinates of the borehole locations were surveyed by SNC-Lavalin using total station equipment.

DRAFT

3.3 Excavation Monitoring and Soil Sampling

PSPC retained Matcon to perform the remedial excavation and construct the STF. The remedial excavation and STF construction was completed on-Site between November 22 and December 7, 2017. Based on pre-excavation in situ characterization of soil quality (i.e., the results of the confirmatory drilling investigation) was established to guide the excavation. These estimated limits are shown on Drawings 636200-1002. The final excavation limits and confirmation sample locations are shown on Drawings 636200-1006 and 636200-1007. Select photographs taken during the remedial excavation are provided in the attachments.

The results of the confirmatory drilling investigation did not achieve delineation in isolated areas of AECs 1, 2, 3, 5, 6 and 7. Additional delineation work at AECs 1, 2 and 3 will be completed in FY 2018/2019 in advance to the remedial excavation of these AECs. Note that the results of the confirmatory drilling investigation are presented in Section 4.2.

For AECs 5, 6 and 7 delineation was not achieved in the following locations:

- In the north-end of the AEC 5 proposed excavation limits (i.e., at 17-173);
- In the north-west end of the AEC 6 proposed excavation limits (i.e., at 17-156 and 17-168); and,
- In the north-end of the AEC 7 proposed excavation limits (i.e., 17-163).

© Her Majesty the Queen in Right of Canada (2018)

Prior to the start of the remedial excavation activities, test-pits were advanced at step-out locations at AEC 5 (TP17-01), AEC 6 (TP17-02 and TP17-03) and AEC 7 (TP17-08) to address these gaps. In addition, four test-pits were advanced to collect confirmatory samples from the excavation floor (and to confirm the maximum depth of the proposed excavation) at AEC 6 (TP17-04, TP17-05 and TP17-06) and AEC 7 (TP17-08). In total, eight test-pits were advanced to a depths ranging from 1.5 m to 3 m bgs using a track-mounted excavator. Soil samples were collected directly from the excavator bucket using the same sampling method described above in Section 3.2.

The remediation excavation removed 4,795.05 tonnes[6] of contaminated soil from AECs 5, 6 and 7. The contaminated soil was transported to the newly constructed STF (i.e., STF #4) located at the JJJ Gravel Pit. Throughout the remedial activities, additional soil sample locations and the excavation limits (i.e., pre-excavation, as they progressed, post-excavation and post-backfilling) were surveyed by SNC-Lavalin using total station equipment. The final excavation limits extended beyond the proposed excavation limits in several areas, largely due to the frost layer. In addition to the contaminated soil excavated, approximately 59 tonnes of non-contaminated material (8.2 tonnes of metal and 51 tonnes of concrete with rebar) was transported off-Site and disposed of at Northern Enviro Services in Watson Lake, Yukon.

The excavations were backfilled using material sourced from the PSPC JJJ Gravel Pit. Prior to use on Site, SNC-Lavalin collected soil samples and submitted them for analysis of BTEX, VPH, LEPH, HEPH, PHC F1 to F4, PAHs and metals. In total, ten backfill soil samples plus on blind field duplicate were submitted to AGAT for analysis.

Copies of the contractor final submittals are included in Appendix III.

3.4 Soil Treatment Facility Construction

One STF was constructed by Matcon at the JJJ Gravel Pit to accommodate contaminated soil from the remedial excavation. The new STF (STF #4) was constructed in between the previously constructed STFs #2 and #3. The location of the new STF and the Site layout for the JJJ Gravel Pit, as well as the STF design specifications are shown on attached Drawings 636200-1008 through 636200-1010, respectively.

Prior to the STF construction, the Site preparation activities included the decommissioning of three monitoring wells (MW16-02, MW16-06 and MW16-07), upgrading the access roads within the JJJ Gravel Pit, site grading and sloping of the immediate area. The three monitoring wells that were decommissioned were either damaged (MW16-02) or within the footprint of the new STF (MW16-06 and MW16-07) and were decommissioned to eliminate pathways for potential infiltration of contaminated run-off. The monitoring wells were decommissioned by filling the entire well piping with appropriate sealant (i.e., hydrated bentonite) to ground surface and removing the wells protective casing.

The STF berms were constructed to 1 m above the ground surface while maintaining a 2:1 slope. A geosynthetic base liner (30 mil LLDPE G/B SOLMAX) was placed over the berms and the STF base surface, followed by a protective geotextile liner. A 300 mm sand and gravel drainage/protection layer was placed over the liners covering the floor of the STF. This was followed by a snow fencing cover to act as a visual/physical layer for subsequent aeration activities. In the low corner of the STF, a monitoring/extraction port was constructed of polyvinyl chloride (PVC) pipe and gravel for the accumulation and management of potential leachate. To divert any surface water runoff, the area

[6] Conversation factor used is 1.95 tonnes/m^3.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

surrounding the STF was graded to allow for unimpeded surface drainage. The final dimension of the STF is approximately 55 m x 58 m. Select photographs taken during the construction of the STFs are provided in the attachments.

As the volume of contaminated soil placed in the STF was approximately 2,400 m^3, it is estimate that the soil within the STF is piled at a height less than 1 m. Following the placement of the contaminated soils, a secure, seamless and reinforced ultra violet resistant cover liner (30 mil LG/B HISCOM) was placed over the soils and extended to the outside of the berms.

Owner supplied granular materials from the JJJ Gravel Pit were used to construct the berm and the 300 mm sand and gravel drainage/protection layer, upon approval by PSPC.

The original scope of work included a soil turning event for the three previously constructed STFs (STF 1, 2 and 3). This activity was not completed as there was concern with the ability to remove the frozen liner without causing damage. A soil turning event is planned during warmer weather in FY 2018/2019.

3.5 Quality Assurance / Quality Control

SNC-Lavalin follows strict quality assurance / quality control (QA/QC) protocols for all sampling and analysis and ensures that all data is handled accordingly. As a minimum, the QA/QC program included the following:

- Senior supervision of field staff;
- Use of in-house trained personnel;
- Implementation of SNC-Lavalin POPs;
- Written field instructions;
- Documentation of all field activities:
  - Samples were collected in a manner appropriate for the prevention of cross-contamination and other field sampling errors. Samples were collected using an appropriate contaminant-free utensil and placed in contaminant-free containers specifically designed for such use and appropriate to the subsequent analyses.
- Chain-of-custody documentation for sample submission:
  - Use of an appropriate coding system for submitting samples to the analytical laboratory to ensure that information concerning location or expected concentration is unavailable to the analyst(s). Chain-of-custody forms were established to trace the movement and handling of samples from the field to their final destination.
- Use of a CALA accredited laboratory;
- Adherence to laboratory sampling and analysis protocols (e.g., hold times, sample containers, preservatives, detection limits and approved methodology);
- Procedures to confirm accurate transcription of laboratory data into tables;
- Review of laboratory QC performance (standards, spike recoveries, etc.) to confirm results were within acceptable limits:
  - Analysis of samples in batches of no more than ten (10) samples for organic substances. Batch-by-batch reviews were completed of the analytical data produced in concert with all internal QA

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

data for that batch. Failure to achieve appropriate QA required additional analysis to rectify the problem on a batch-by-batch basis.
- Results of the laboratory's internal checks are included in the analytical report.

› Decontamination of sampling and drilling equipment between samples and boreholes;
› Submission of field QC samples and implementation of CAP, if deemed appropriate, when acceptable limits were exceeded:

- To assess the QA/QC for the blind duplicate sets, SNC-Lavalin calculates the PQL (defined as five times the method detection limit [MDL]) and, if appropriate, the RPD (defined as the absolute value of the difference between a sample set divided by the average of the two results). If sample concentrations are less than the PQL, RPDs are not considered meaningful and are not calculated.
- RPD values less than 50 % are considered acceptable for soil, groundwater and soil vapour.

Laboratory QA/QC measures included analysis of method blanks, matrix spikes, laboratory control samples and matrix duplicates. Calculated RPD values for the blind field duplicate samples are presented in the data tables included in the report. The results are discussed in Sections 4.2.2 and 4.3.3.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

4 Results

The analytical results for the confirmatory drilling investigation and subsequent remedial excavation are summarized below and presented on the attached tables and drawings. In addition to these results, the attached tables also show all analytical data (historical and current) that represents current site conditions. This includes investigation soil data, confirmatory soil excavation results, backfill quality results, groundwater and drinking water analytical results, and soil vapour data.

The soil and groundwater analytical results for all site investigations completed to date are presented on Tables 1 through 8 and the drawings provided in Appendix IV.

4.1 Soil Stratigraphy

Consistent with the observations from previous investigations and remedial activities at the Site, the stratigraphy encountered during the confirmatory drilling and remedial excavation consisted of sand or sand and gravel with some cobbles, to the maximum depth of 8 m bgs. Occasional sand layers of varying thickness (less than 1 m thick) were observed during the confirmatory drilling investigation.

Groundwater was not anticipated due to measured depths in monitoring wells being below excavation limits, and did not accumulate in any of the excavated areas. Therefore, no water was treated or discharged from the Site.

Descriptions of the soil profile for samples collected from the confirmatory boreholes and test-pits are provided in the attached borehole and test-pit logs. Soil descriptions for samples collected from the excavation limits are provided in Table 1, attached.

The remedial excavations were backfilled with material sourced from the PSPC JJJ Gravel Pit. The material consisted of sand and gravel.

DRAFT

4.2 Confirmatory Drilling Investigation

4.2.1 Soil Analytical Results

During the FY 2017/2018 confirmatory drilling investigation, 114 boreholes (BHs 17-69 through 17-182) were advanced at both step-out locations and within the previous excavation limits to refine the extent of residual contamination in AECs 1, 2, 3, 5, 6 and 7. The soil samples collected from these areas will provide the confirmatory results (where within the federal guidelines) for the future remedial excavation activities.

A total of 499 soil samples and 50 blind field duplicates were collected during the drilling investigation. Of these, 485 samples and were selectively analyzed for BTEX, VPH, LEPH, HEPH, PHC F1 to F4 and PAHs. Twenty-eight samples were selectively analyzed for total metals and/or electrical conductivity. The discussion and conclusions of the metals and electrical conductivity analysis will be discussed under a separate cover.

The analytical results of the confirmatory investigation are presented along with previous remedial excavation data on Tables 9 through 13 and on Drawings 636200-1003 through 636200-1007. Note that for the confirmatory locations that were subsequently excavated, the analytical results are shown on the

© Her Majesty the Queen in Right of Canada (2018)

"interim" tables (Tables 12 and 13). Copies of the analytical laboratory reports are provided in Appendix V.

4.2.1.1 Hydrocarbons and PAHs

During the confirmatory investigation, a total of 485 samples, including blind field duplicates, were selectively analyzed for hydrocarbons and PAHs. For the majority of the samples analyzed, the measured concentrations of hydrocarbons and PAHs were less than the applicable guidelines and standards. Impacts were identified in several areas and are summarized in the below table. Note that the impacts identified in AECs 5, 6 and 7 (locations 17-156, 17-163, 17-168 and 17-173) were removed during the subsequent remedial excavation. A summary of the results is provided below separated by AEC.

In AEC 1, the following boreholes were identified with concentrations of contaminants of concern (COCs) greater than the CCME or CSR guidelines/standards:

- In southeast section of the previous excavation:
  - Step-out boreholes at locations 17-111 (0.5 - 0.6 m), 17-112 (0.5 - 0.6 m), 17-120 (6.4 -6.7 m, 7.3 – 7.6 m and 7.9 - 8.1m) and 17-121 (7.9 – 8.1 m) contained one or more of LEPH, HEPH, PHC F2 to F4 and PAH parameters at concentrations greater than the applicable CCME guidelines or CSR standards.
  - In general, isolated shallow exceedances above 8 m were delineated however lateral delineation is still needed towards the east.
- In the northeast portion of the previous excavation:
  - Step-out boreholes at locations 17-82 (0.5 – 0.6 m, 7.9– 8.1 m), 17-88 (0.5 – 0.6 m) and 17-89 (7.9 – 8.2 m) contained one or more PHC F1 to F3 parameters at concentrations greater than the applicable CCME guidelines.
  - In general, delineation has been achieved with the exception of shallow impacts.
- In the northwest portion of the previous excavation:
  - Boreholes were advance to collect confirmatory samples at depth. Locations 17-90 and 17-94 (both at 7.9 – 8.1 m) confirmed impacts of one or more of ethylbenzene, PHC F1 to F2, LEPH and PAH parameters at concentrations greater than the applicable CCME guidelines or CSR standards.
  - These samples provide confirmatory information at the proposed maximum depth of excavation.

In AEC 2, the following boreholes were identified with concentrations of COCs greater than the CCME or CSR guidelines/standards:

- In the northeast portion of the maintenance building:
  - Step-out boreholes at locations 17-122 (0.5 – 0.6 m, 1.4 – 1.7 m), 17-123 (1.4 – 1.7 m, 2.3 – 2.6 m, 2.9 – 3.0 m) and 17-126 (0.5 – 0.6 m, 1.4 – 1.7 m) confirmed impacts of one or more of benzene, toluene, ethylbenzene, PHC F1 to F4, LEPH, HEPH, and PAH parameters at concentrations greater than the applicable CCME guidelines or CSR standards.
  - Additional delineation to depths of 3 m below bgs is required.
- In the area southwest of the coverall building:

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

- Boreholes advanced to provide confirmatory sample information at locations 17-127 (0.5 – 0.6 m), 17-128 (4.4 - 4.7 m, 6.4 – 6.7 m, 7.3 – 7.6 m, 7.9 – 8.1 m), 17-129 (3.4 – 3.7 m, 4.4 – 4.7 m, 5.3 – 5.6 m), 17-130 (0.5 – 0.6 m) and 17-131 (0.5 – 0.6 m) contained concentrations of benzene, toluene, LEPH, PAHs, PHC F1 to F3 greater than the applicable CCME guidelines or CSR standards.
- Additional delineation at multiple depths is required to obtain confirmatory excavation limit samples. Samples at 8 m provide confirmatory information at the proposed maximum depth of excavation in this area.

In AEC 3, the following boreholes were identified with concentrations of COCs greater than the CCME or CSR guidelines/standards:

› In the northwest portion of the previous excavation:

- Boreholes advanced to provide confirmatory sample information at locations 17-70 (4.3 – 4.9 m, 6.4 – 6.7 m, 7.3 – 7.6 m), 17-71 (6.4 – 6.7 m, 7.3 – 7.6 m, 7.9 – 8.2 m) and 17-79 (0.5 – 0.6 m) contained concentrations of one or more of PHC F2, PHC F3, LEPH, and PAH parameters greater than the CCME guidelines and CSR standards
- Samples collected at depths greater than 8 m bgs to support the on-going in situ remediation program at location17-71 (9.6 – 9.9 m, 10.5 – 10.8 m, 11.4 – 11.7 m) contained concentrations of PHC F2 greater than the applicable CCME guideline.
- Additional delineation at multiple depths is required to obtain confirmatory excavation limit samples. Samples at 8 m provide confirmatory information at the proposed maximum depth of excavation in this area.

› In the southwest portion of the previous excavation:

- Boreholes advanced to provide confirmatory sample information at locations 17-69 (3.4 – 3.7 m), 17-149 (0.9 – 1.1 m), and 17-154 (0.9 – 1.1 m, 1.4 – 1.7 m) contained concentrations of one or more of PHC F2 to F3, LEPH and PAH parameters greater than the CCME guidelines or CSR standards.
- Additional delineation at shallower depths above 4 m is required to obtain confirmatory excavation limit samples.

› In the southeast portion of the previous excavation:

- Boreholes advanced to provide confirmatory sample information at locations 17-139 (0.3 – 0.6 m), 17-140 (0.3 – 0.6 m, 1.4 – 1.7 m), 17-141 (0.5 – 0.6 m, 0.9 – 1.1 m), 17-148 (1.4 – 1.7 m), and 17-169 (1.4 – 1.7 m) contained concentrations of one or more of ethylbenzene, toluene, xylenes, VPH, PHC F2 to F3, LEPH, HEPH and PAH parameters greater than the CCME guidelines or CSR standards.
- Additional delineation at multiple depths is required to obtain confirmatory excavation limit samples.

› In the northeast portion of the previous excavation:

- Borehole 17-134 was advanced to collect a confirmatory sample at depth (7.9 – 8.1 m) and confirmed impacts of PHC F2 and LEPH at concentrations greater than the CCME guideline and CSR standards. This sample provides confirmatory information at the proposed maximum depth of excavation in this area.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

In AEC 5, the following boreholes were identified with concentrations of COCs greater than the CCME or CSR guidelines/standards:

- Step-out location 17-173 contained concentrations of PHC F2 to F3 in one sample collected from a depth of 0.5 – 0.8 m bgs. This identified impact is vertically delineated however delineation towards the southwest is still required.

In AEC 6, the following boreholes were identified with concentrations of COCs greater than the CCME or CSR guidelines/standards:

- Step-out locations 17-156 (0.5 – 0.6 m) and 17-168 (0.3 – 0.6 m) contained concentrations of one or more of PHC F2 to F3, LEPH, HEPH and PAH parameters greater than the CCME guidelines or CSR standards.
- Additional delineation is required towards the north and the east.

In AEC 7, the following boreholes were identified with concentrations of COCs greater than the CCME or CSR guidelines/standards:

- Step-out location 17-163 contained a concentration of PHC F2 in a sample collected from 1.4 – 1.5 m bgs. Delineation of this identified impact is required towards the north.

4.2.1.2 Inorganics

A total of 25 soil samples and three blind field duplicates were analyzed for total metals. The tabulated analytical results are presented on Table 11. As previously mentioned, the results of the metals analysis will be discussed under a separate cover.

The analytical results identified measured concentrations of arsenic in two shallow samples (< 1 m bgs) collected from the area of AEC 1 (17-98 and 17-112) that are greater than both the CCME CEQG RL guidelines and the CSR RLLD standards. All remaining soil samples analyzed were within the applicable CCME CEQG RL guidelines and CSR RLLD (or IL) standards.

4.2.2 Quality Assurance / Quality Control

The following provides a summary of the QA/QC results for the confirmatory drilling investigation analytical program:

- A total of 440 samples and 43 blind field duplicates were analyzed for BTEX and PHC F1 resulting in a duplicate frequency of 9.8 %, marginally less than SNC-Lavalin's target of 10 %.
- A total of 433 samples and 42 blind field duplicates were analyzed for VPH resulting in a duplicate frequency of 9.7 %, marginally less than SNC-Lavalin's target of 10 %.
- A total of 443 samples and 42 blind field duplicates were analyzed for PHC F2-F4 resulting in a duplicate frequency of 9.5 %, marginally less than SNC-Lavalin's target of 10 %.
- A total of 433 samples and 41 blind field duplicates were analyzed for LEPH, HEPH and PAHs resulting in a duplicate frequency of 9.5 %, marginally less than SNC-Lavalin's target of 10 %.
- A total of 25 samples and three blind field duplicates were analyzed for total metals resulting in a duplicate frequency of 12 %, exceeding SNC-Lavalin's target of 10 %.
- A total of 23 samples and two blind field duplicates were analyzed for electrical conductivity resulting in a duplicate frequency of 8.7 %.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

All calculated RPD values were within SNC-Lavalin's target of 60 % with the exception of two duplicate pairs.

- Duplicate pair BH17-89-01 and BH17-89-02 had a calculated RPD value for phenanthrene of 67 %. SNC-Lavalin contacted AGAT on October 28, 2017. A response was received on November 10, 2017 indicating that the laboratory had rechecked the analytical data and no issues were identified. AGAT did note that the samples were diluted due to interference. Concentrations of phenanthrene in the duplcuiate pair both exceeded the applicable guideline and as such the RPD failure does not affect the conclusions made based on the data.
- Duplicate pair BH17-100-02 and BH17-100-03 had a calculated RPD value for lead of 78 %. SNC-Lavalin contacted AGAT on November 8, 2017. A response was received on November 8, 2017 indicating that the laboratory had rechecked the analytical data and no issues were identified. Both lead concentrations were significantly less than the applicable guidelines/standards as such the RPD failure does not materially affect the conclusions made based on the data.

Based on the review of the analytical data, the responses from the laboratory, and that all other calculated RPD values were within SNC-Lavalin's target, SNC-Lavalin considers the data to be accurate and reproducible.

DRAFT

4.3 Remedial Excavation

4.3.1 Soil Analytical Results

4.3.1.1 Hydrocarbons and PAHs

4.3.1.1.1 Pre-Excavation Test-Pitting

Based on the results of the confirmatory investigation results, four test-pits were advanced (TP17-01 to TP17-03 and TP17-07) at step-out locations prior to the start of the remedial excavation in attempt to achieve delineation of the impacts identified during the confirmatory drilling at AECs 5, 6 and 7. In addition, four test-pits (TP17-04 to TP17-06 and TP17-08) were advanced to collect confirmatory soil samples from the floor of the proposed remedial excavations at AECs 6 and 7. The analytical results identified the following:

- Concentrations of PHC F2 and F3 were greater than the CCME CEQG RL guidelines in two samples collected from TP17-01 (step-out location from the southwest portion of AEC 5) from depths of 0.5 m to 0.8 m bgs, and 0.8 m to 1.0 m bgs. In addition, the deeper sample (0.8 m – 1.0 m bgs) contained measured concentrations of fluorene and phenanthrene greater than the CCME CEQG RL guidelines.
- A concentration of PHC F3 greater than the CCME CEQG RL guideline was identified in one sample collected from TP17-02 (AEC 6) from a depth of 0.5 m to 0.6 m bgs.
- All remaining test-pit samples analyzed were within the CCME CEQG RL guidelines and the CSR RLLD standards.

The analytical results for the test-pit samples within the applicable guidelines and standards are provided on Tables 9 and 10 and on Drawings 636200-1006 and 636200-1007. The subsequent soil excavation removed the locations where impact was identified (i.e., at TP17-01 and TP17-02) and as such, the

© Her Majesty the Queen in Right of Canada (2018)

analytical results for these two test-pit locations are provided on Tables 11 and 12 (the interim soil results). Detailed descriptions of the soil stratigraphy encountered during the test-pitting are provided on Table 8.

4.3.1.1.2 Confirmatory Soil Sampling

The remedial excavation was completed to the pre-determined limits governed by the results of the confirmatory drilling investigation and the test-pitting activities presented above. Where residual contamination was identified either in the confirmatory drilling or the test pit activities the excavation limits were expanded to remove the impacts and new confirmatory soil samples were collected.

In total, confirmatory soil samples were collected from one location on the southwest wall of the AEC 5 excavation and one location from the north wall of the AEC 6 excavation. The analytical results are presented on Tables 9 and 10, and on Drawings 636200-1006 and 636200-1007. The analytical results identified concentrations of PHC F3 (294 µg/g) to be greater than the CCME CEQG RL guideline (150 µg/g) in one sample (EXC17-06-496) collected from a depth of 0.5 m to 0.6 m bgs in AEC 6. All remaining samples, the concentrations for all parameters analyzed were less than the CCME CEQG RL guidelines and the CSR RLLD standards.

4.3.2 Excavation Backfill Results

Imported backfill material was sourced from the PSPC JJJ Gravel Pit. Soils allocated for use on the Site were sampled by SNC-Lavalin and submitted for analysis of BTEX, VPH, LEPH, HEPH, PHC F1 to F4, PAHs and metals. In total, ten backfill soil samples plus on blind field duplicate were submitted to AGAT for analysis. The analytical results are presented on Tables 15 to 17, attached.

The measured concentrations of all parameters analyzed in the backfill soil samples were less than the applicable federal and provincial guidelines/standards. Detailed soil descriptions of the backfill samples are provided on Table 14, attached.

4.3.3 Quality Assurance / Quality Control

A total of 17 samples and two blind field duplicates were analyzed for BTEX, VPH, PHC F1 to F4, LEPH, HEPH, and PAHs as part of the pre-excavation test pit activities and confirmatory soil sampling, This represents a duplicate frequency of 11.7 %, greater than SNC-Lavalin's target of 10 %.

RPD values were calculated for those parameters that had measured concentrations greater than five times the MDL. For all parameters analyzed, the RPD values were unable to be calculated. SNC-Lavalin considers the data to be accurate and reproducible.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

5 Conclusions

SNC-Lavalin was retained by PSPC to oversee the delineation and remediation of petroleum hydrocarbon contaminated soil previously identified at the Site. Further, SNC-Lavalin developed technical specifications for the remediation program and PSPC retained Matcon to perform the remediation activities.

Prior to the start of the FY 2016/2017 remedial excavation, a confirmatory drilling investigation was completed to achieve delineation of residual contamination and collect confirmatory soil samples in advance of the remedial excavations at AEC 5, 6 and 7. The confirmatory drilling investigation was also completed to collect confirmatory soil samples in AECs 1 and 3 to support the remedial excavations planned for FY 2018/2019. In addition, further investigation of the previously identified soil contamination in the vicinity of the Maintenance Building (AEC 2) was completed to support future remedial excavation and risk assessment.

The remedial excavation activities were completed at the Site between November 22, 2017 and December 7, 2017. A total of 4,795.05 tonnes of contaminated material was removed from AEC 5, 6 and 7 and transported to the newly constructed STF (SFT #4) and 59.2 tonnes of non-contaminated material (metal and concrete with rebar) was transported to Watson Lake, Yukon. Approximately 2,459 m^3 of clean backfill material (sourced from the PSPC JJJ Gravel Pit) was imported to the Site and placed into the excavations.

The soil samples collected during the confirmatory drilling investigation provided the confirmatory results. As such, excavation confirmatory soil samples were only collected in areas where the drilling investigation identified further contamination and the remedial excavation subsequently removed those impacts.

Results of the confirmatory soil sampling (both drilling and post-excavation soil sampling) indicated that the contamination previously identified in AEC 5 and AEC 7 has been fully remediated. Soils within these two AECs are now within the applicable CCME and CSR residential land use guidelines/standards.

Following the completion of the excavation at AEC 6, residual impacts were identified along the northern limit at a depth of 0.5 m to 0.6 m bgs. Further, the confirmatory drilling did not achieve the delineation of all previously identified areas of residual contamination at AECs 1, 2 and 3. The table below summarizes the residual impacts remaining in the excavated areas (both FY 2016/2017 and 2017/2018) at the Site.

Table B: Summary of Residual Petroleum Hydrocarbon Contamination

AEC	Results
1	Impacts remain at several locations on the floor of the excavation (4.5 m to 8.0 m bgs) near the centre of the excavation footprint and towards the eastern limit. These impacts are delineated. Surficial impacts remain along the south eastern excavation limit (0.4 m bgs). Deeper impacts remain north of this, along the eastern limit to depths of approximatley 7.5 m bgs. General delineation of these impacts have been achieved. Nominal shallow hydrocarbon impacts are present at a few locations along the western excavation limit. These impacts have been delineated.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

Table B (cont'd): Summary of Residual Petroleum Hydrocarbon Contamination

AEC	Results
2	Within the area of AEC 2 northeast of the Maintenance Building, localized nominal toluene impacts remain in soil between 0.5 m and 3.0 m bgs. One location along each of the northern and the southern limit of the previous excavation have residual PHC impacts at surface (0.5 m bgs) and are delineated. Additional impacts between surface and 3 m bgs have been confirmed near the northeast corner of the Maintenance Building and the fuelling facilities. These additional impacts between surface and 3 m bgs are not delineated. Within the area of AEC 2, at the southeast corner of the Coverall Building, impacts between surface and 8 m bgs have been confirmed. In general , delineation of the deeper impacts (between 1.5 m and 8 m bgs) have been delineated. Impacts between surface and 1.5 m bgs extending towards the north (beneath the Coverall Building) have not been delineated. Further, impacts between 2.5 and 6.5 m bgs extending towards the east have not been laterally delineated.
3	Surficial impacts remain along the southwestern excavation limit between surface and 0.5 m bgs. Partial delineation of these impacts has been achieved. Impacts remain in the southeastern portion of the excavation limit between 0.5 m and 8.0 m bgs. The impacts below 2 m bgs are generally delineated. Surficial impacts between 0.5 m and 2.0 m bgs are not delineated. Impacts along the floor of the excavation (between 1.8 m and 8 m bgs) remain in the central-north portion of the excavation.
6	Surficial impacts remain along the northern limit between 0.5 m and 0.6 m bgs.

AEC – area of environmental contamination

Overall select areas with petroleum hydrocarbon contamination between surface and 3 m bgs remain un-delineated in AECs 1, 2, 3 and 6. The remaining impacts between surface and 8 m bgs are planned to be excavated during FY 2018/2019 with the exception of the impacts at the northeastern corner of the Maintenance Building (AEC 2) where due to access constraints, the contamination in this area of the Site will be addressed by risk assessment.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

6 Notice to Reader

This report has been prepared by SNC-Lavalin Inc. (SNC-Lavalin) for Canada, who has been party to the development of the scope of work for this project and understands its limitations. Copyright of this report vests with Her Majesty the Queen in Right of Canada. This report was prepared in accordance with a services contract between SNC-Lavalin and Canada, including General Conditions 2035 of the Standard Acquisition Clauses and Conditions (SACC) Manual.

This report is intended to provide information to Canada to assist it in making business decisions. SNC-Lavalin is not a party to the various considerations underlying the business decisions, and does not make recommendations regarding such business decisions.

The findings, conclusions and recommendations in this report have been developed in a manner consistent with the level of skill normally exercised by environmental professionals currently practising under similar conditions in the area. The findings contained in this report are based, in part, upon information provided by others. If any of the information is inaccurate, modifications to the findings, conclusions and recommendations may be necessary.

The findings, conclusions and recommendations presented by SNC-Lavalin in this report reflect SNC-Lavalin's best judgement based on the site conditions at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. They have been prepared for specific application to this site and are based, in part, upon visual observation of the site and specific analysis of hazardous building material samples as described in this report. Substances other than those described may exist within the site, reported substance parameters may exist in areas of the site not investigated, and concentrations of substances greater or less than those reported may exist between sample locations.

The findings and conclusions of this report are valid only as of the date of this report. If site conditions change, new information is discovered, or unexpected site conditions are encountered in future work, including excavations, borings, or other studies, the findings, conclusions and/or recommendations of this report should be re-evaluated. It is recommended that users of this report should engage a suitably qualified professional to assist in interpreting the significance, if any, of the findings.

DRAFT

© Her Majesty the Queen in Right of Canada (2018)

Tables

1: Summary of Analytical Results for Hydrocarbons in Soil
2: Summary of Analytical Results for PAHs in Soil
3: Summary of Analytical Results for Metals in Soil
4: Summary of Analytical Results for Soil Salinity
5: Summary of Analytical Results for VOCs in Soil
6: Summary of Analytical Results for PCBs in Soil
7: Summary of Analytical Results for Glycols in Soil
8: Excavation Sample Log
9: Summary of Analytical Results for Soil – Hydrocarbons – Confirmatory Excavation Samples
10: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – Confirmatory Excavation Samples
11: Summary of Analytical Results for Soil – Total Metals – Confirmatory Excavation Samples
12: Summary of Analytical Results for Soil – Hydrocarbons – Interim Excavation Samples
13: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – Interim Excavation Samples
14: Sample Log – Import Backfill
15: Summary of Analytical Results for Soil – Hydrocarbons – Import Backfill
16: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – Import Backfill
17: Summary of Analytical Results for Soil – Total Metals – Import Backfill
18: Summary of Analytical Results for Hydrocarbons in Groundwater
19: Summary of Analytical Results for PAHs in Groundwater
20: Summary of Analytical Results for Dissolved Inorganics in Groundwater
21: Summary of Analytical Results for Dissolved Metals in Groundwater
22: Summary of Analytical Results for Total Metals in Groundwater
23: Summary of Analytical Results for VOCs in Groundwater
24: Summary of Analytical Results for Glycols in Groundwater
25: Summary of Analytical Results for Drinking Water – Hydrocarbons
26: Summary of Analytical Results for Drinking Water – Polycyclic Aromatic Hydrocarbons
27: Summary of Analytical Results for Drinking Water – Physical Parameters, Inorganics and Total Metals
28: Summary of Analytical Results for Drinking Water – Microbiological Parameters
29: Summary of Analytical Results for Soil Vapour
30: Summary of Analytical Results for Estimated Indoor Air Concentrations
31: Summary of Analytical Results for Estimated Outdoor Air Concentrations
32: Summary of Analytical Results for Ambient Air
33: Surface Sample Log – JJJ Gravel Pit
34: Summary of Analytical Results for Soil – Hydrocarbons – JJJ Gravel Pit
35: Summary of Analytical Results for Soil – Polycyclic Aromatic Hydrocarbons – JJJ Gravel Pit
36: Summary of Analytical Results for Soil – Total Metals – JJJ Gravel Pit
37: Summary of Analytical Results for Groundwater – Hydrocarbons – JJJ Gravel Pit
38: Summary of Analytical Results for Groundwater – Polycyclic Aromatic Hydrocarbons – JJJ Gravel Pit
39: Summary of Analytical Results for Groundwater – Dissolved Metals – JJJ Gravel Pit

TABLE 1: Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
TP-14	FS-14-0.5	2002 10 05	0.5 - 0.5	-	< 0.04[a]	< 0.05	< 0.05	0.2	< 0.05	< 100	< 200	< 200	< 30	78	168	67	-
TP-19	FS-19-0.5	2002 10 05	0.5 - 0.5	-	< 0.04[a]	0.07	< 0.05	< 0.1	< 0.05	< 100	< 200	< 200	< 30	90	< 50	< 50	-
	FS-19-2.4	2002 10 05	2.4 - 2.4	-	< 0.04[a]	0.07	< 0.05	< 0.1	< 0.05	< 100	< 200	< 200	< 30	< 50	< 50	< 50	-
	FS-19A-2.4	Duplicate	2.4 - 2.4	-	< 0.04[a]	< 0.05	< 0.05	< 0.1	< 0.05	< 100	< 200	< 200	< 30	< 50	< 50	< 50	-
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	-
TP-35	FS-35-1.0	2002 10 05	1.0 - 1.0	-	< 0.04[a]	< 0.05	< 0.05	< 0.02	0.04	-	< 200	< 200	< 30	< 50	< 50	< 50	-
BH01	BH01-01	2003 01 01	1.2 - 1.2	-	-	-	-	-	-	-	< 200	< 200	-	42	58	< 50	-
BH02	BH02-01	2003 01 01	1.2 - 1.2	-	-	-	-	-	-	-	< 200	< 200	-	35	< 50	< 50	-
	BH02-08	2003 01 01	6.6 - 6.6	-	< 0.04[a]	< 0.05	< 0.05	< 0.1	< 0.05	< 100	< 200	< 200	-	44	< 50	< 50	-
BH03	BH03-08	2003 01 01	10.1 - 10.1	-	-	-	-	-	-	-	267	< 200	-	148	148	< 50	-
BH04	BH04-03	2003 01 01	4.3 - 4.3	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
	BH04-05	2003 01 01	7.3 - 7.3	-	-	-	-	-	-	-	< 200	< 200	-	31	< 50	< 50	-
	BH04-06	2003 01 01	8.8 - 8.8	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
BH05	BH05-07	2003 01 01	8.5 - 8.5	-	-	-	-	-	-	-	780	< 200	-	***562***	320	< 50	-
BH06	BH06-05	2003 01 01	7.3 - 7.3	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
BH07	BH07-06	2003 01 01	8.8 - 8.8	-	-	-	-	-	-	-	**2,760**	416	-	***1,600***	1,230	< 50	-
BH08	BH08-04	2003 01 01	5.8 - 5.8	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
	BH08-08	2003 01 01	11.9 - 11.9	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
BH09	BH09-03	2003 01 01	4.3 - 4.3	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
	BH09-07	2003 01 01	10.1 - 10.1	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
BH10	BH10-05	2003 01 01	7.3 - 7.3	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
	BH10-08	2003 01 01	11.9 - 11.9	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
BH11	BH11-01	2003 01 01	1.2 - 1.2	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
	BHQAQC-01	Duplicate	1.2 - 1.2	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	*	*	*	-
	BH11-07	2003 01 01	10.4 - 10.4	-	-	-	-	-	-	-	< 200	< 200	-	34	< 50	< 50	-
BH12	BH12-01	2003 01 01	1.2 - 1.2	-	< 0.04[a]	< 0.05	< 0.05	< 0.1	< 0.05	< 100	< 200	< 200	-	< 30	< 50	< 50	-
	BHQAQC-02	Duplicate	1.2 - 1.2	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	*	*	*	-
	BH12-05	2003 01 01	7.3 - 7.3	-	-	-	-	-	-	-	< 200	< 200	-	< 30	< 50	< 50	-
	BH12-08	2003 01 01	11.9 - 11.9	-	-	-	-	-	-	-	< 200	< 200	-	32	< 50	< 50	-
BH14	BH14-4	2004 11 23	4.6 - 4.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH16	BH16-1	2004 11 23	0.5 - 0.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH16-2	2004 11 23	2.6 - 2.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH17	BH17-1	2004 11 23	2.4 - 2.4	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH18	BH18-1	2004 11 23	0.5 - 0.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH19	BH19-1	2004 11 26	0.5 - 0.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH20	BH20-1	2004 11 26	0.5 - 0.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH20-2	2004 11 26	2.4 - 2.4	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH22	BH22-1	2004 11 26	2.5 - 2.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
BH23	BH23-1	2004 11 26	0.5 - 0.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
	BH23-2	2004 11 26	2.2 - 2.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH24	BH24-1	2004 11 26	0.5 - 0.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	**1,600**	300	-	-	-	-	-
	BH24-2	2004 11 26	2.4 - 2.4	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	**280**	< 250	-	-	-	-	-
	GR1	Duplicate	2.4 - 2.4	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			*	*	*	*	*	*	*	*	-	-	-	-	-
BH25	BH25-1	2004 11 26	0.5 - 0.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH27	BH27-2	2004 11 26	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH28	BH28-2	2004 11 27	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR3	Duplicate	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
BH29	BH29-1	2004 11 27	0.5 - 0.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH29-2	2004 11 27	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH30	BH30-2	2004 11 27	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	**310**	**6,900**	280	-	-	-	-	-
	BH30-3	2004 11 27	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH31	BH31-1	2004 11 27	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH32	BH32-1	2004 11 27	1.4 - 1.4	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH32-2	2004 11 27	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH33	BH33-1	2004 11 27	1.5 - 1.5	-	-	-	-	-	-	-	< 250	500	-	-	-	-	-
BH34	BH34-1	2004 11 28	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH34-2	2004 11 28	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH35	BH35-1	2004 11 28	1.5 - 1.5	-	-	-	-	-	-	-	**2,000**	480	-	-	-	-	-
	BH35-2	2004 11 28	3.1 - 3.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH36	BH36-3	2004 11 28	9.1 - 9.1	-	-	-	-	-	-	-	**2,300**	< 250	-	-	-	-	-
	BH36-4	2004 11 28	12.0 - 12.0	-	-	-	-	-	-	-	**1,700**	300	-	-	-	-	-
	BH36-5	2004 11 28	15.0 - 15.0	-	-	-	-	-	-	-	**370**	< 250	-	-	-	-	-
BH37	BH37-1	2004 11 29	0.6 - 0.6	-	-	-	-	-	-	-	**12,000**	**2,200**	-	-	-	-	-
BH38	BH38-1	2004 11 29	1.2 - 1.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH38-2	2004 11 29	2.4 - 2.4	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH42	BH42-1	2004 11 29	0.9 - 0.9	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH51	BH51-1	2004 11 29	2.4 - 2.4	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
BH52	BH52-1	2004 11 29	0.3 - 0.3	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
	GR6	Duplicate	0.3 - 0.3	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
	BH52-2	2004 11 29	2.4 - 2.4	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH53	BH53-5	2004 11 30	9.1 - 9.1	-	-	-	-	-	-	-	**2,900**	410	-	-	-	-	-
	BH53-6	2004 11 30	10.7 - 10.7	-	-	-	-	-	-	-	**4,700**	680	-	-	-	-	-
BH54	BH54-1	2004 11 30	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
	BH54-2	2004 11 30	3.1 - 3.1	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
	BH54-3	2004 11 30	6.1 - 6.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH54-5	2004 11 30	10.7 - 10.7	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH55	BH55-3	2004 12 01	4.6 - 4.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH55-4	2004 12 01	7.6 - 7.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH55-5	2004 12 01	9.1 - 9.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH55-6	2004 12 01	10.7 - 10.7	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH56	BH56-3	2004 12 01	4.6 - 4.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH56-5	2004 12 01	7.6 - 7.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH56-6	2004 12 01	9.1 - 9.1	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH57	BH57-5	2004 12 07	12.2 - 12.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH58	BH58-1	2004 12 08	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 100	< 250	< 250	-	-	-	-	-
	BH58-2	2004 12 08	4.6 - 4.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH58-3	2004 12 08	7.6 - 7.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH59	BH59-4	2004 12 11	10.7 - 10.7	-	-	-	-	-	-	-	**1,100**	< 250	-	-	-	-	-
BH60	BH60-3	2004 12 11	7.6 - 7.6	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH61	BH61-1	2005 03 12	10.8 - 10.8	-	-	-	-	-	-	-	**870**	< 250	-	-	-	-	-
	BH61-2	2005 03 12	12.3 - 12.3	-	-	-	-	-	-	-	**1,700**	250	-	-	-	-	-
	BH61-3	2005 03 12	13.5 - 13.5	-	-	-	-	-	-	-	**620**	< 250	-	-	-	-	-
	BH61-4	2005 03 12	16.5 - 16.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH62	BH62-1	2005 03 12	9.0 - 9.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	4.4	-	**240**	**3,400**	580	-	-	-	-	-
	GR11	Duplicate	9.0 - 9.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	**11**	-	**330**	**4,000**	830	-	-	-	-	-
		QA/QC RPD%			*	*	*	86	-	32	16	35	-	-	-	-	-
	BH62-2	2005 03 12	10.5 - 10.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	**6.6**	-	**470**	**6,000**	1,200	-	-	-	-	-
	BH62-3	2005 03 12	13.5 - 13.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	**7,400**	1,400	-	-	-	-	-
	BH62-4	2005 03 12	16.5 - 16.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
BH63	BH63-4	2005 03 12	9.0 - 9.0	-	-	-	-	-	-	-	**3,300**	310	-	-	-	-	-
	BH63-5	2005 03 12	12.0 - 12.0	-	-	-	-	-	-	-	**2,700**	< 250	-	-	-	-	-
	BH63-6	2005 03 12	15.0 - 15.0	-	-	-	-	-	-	-	**260**	< 250	-	-	-	-	-
BH64	BH64-6	2005 03 13	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH65	BH65-3	2005 03 13	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH66	BH66-4	2005 03 13	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH67	BH67-1	2005 03 13	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH67-2	2005 03 13	3.0 - 3.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
BH68	BH68-1	2005 03 13	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR14	Duplicate	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
	BH68-2	2005 03 13	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH69	BH69-2	2005 03 13	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH70	BH70-1	2005 03 13	3.0 - 3.0	-	-	-	-	-	-	-	**1,200**	< 250	-	-	-	-	-
	GR15	Duplicate	3.0 - 3.0	-	-	-	-	-	-	-	**1,100**	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	9	*	-	-	-	-	-
	BH70-2	2005 03 13	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH71	BH71-1	2005 03 13	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH71-2	2005 03 13	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR16	Duplicate	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
	BH71-3	2005 03 13	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH72	BH72-1	2005 03 13	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH72-2	2005 03 13	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH73	BH73-3	2005 03 14	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH74	BH74-1	2005 03 14	1.5 - 1.5	-	-	-	-	-	-	-	**1,600**	390	-	-	-	-	-
	BH74-2	2005 03 14	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH75	BH75-1	2005 03 14	1.5 - 1.5	-	-	-	-	-	-	-	**7,700**	**1,700**	-	-	-	-	-
	GR17	Duplicate	1.5 - 1.5	-	-	-	-	-	-	-	**8,100**	**1,700**	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	5	0	-	-	-	-	-
	BH75-2	2005 03 14	3.0 - 3.0	-	-	-	-	-	-	-	**4,800**	**1,200**	-	-	-	-	-
	BH75-3	2005 03 14	4.5 - 4.5	-	-	-	-	-	-	-	**21,000**	**3,100**	-	-	-	-	-
	BH75-5	2005 03 14	6.0 - 6.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	**160**	**2,000**	260	-	-	-	-	-
	BH75-7	2005 03 14	9.0 - 9.0	-	-	-	-	-	-	-	**7,700**	1,800	-	-	-	-	-
	BH75-8	2005 03 14	12.0 - 12.0	-	-	-	-	-	-	-	**2,300**	530	-	-	-	-	-
	BH75-9	2005 03 14	13.5 - 13.5	-	-	-	-	-	-	-	**2,300**	< 250	-	-	-	-	-
	BH75-10	2005 03 14	16.5 - 16.5	-	-	-	-	-	-	-	**1,900**	< 250	-	-	-	-	-
	BH75-11	2005 03 14	19.5 - 19.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR18	Duplicate	19.5 - 19.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
	BH75-12	2005 03 14	21.0 - 21.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH76	BH76-1	2005 03 14	1.5 - 1.5	-	-	-	-	-	-	-	**3,600**	< 250	-	-	-	-	-
	BH76-2	2005 03 14	3.0 - 3.0	-	-	-	-	-	-	-	**1,400**	< 250	-	-	-	-	-
	BH76-3	2005 03 14	4.5 - 4.5	-	-	-	-	-	-	-	**280**	< 250	-	-	-	-	-
	BH76-4	2005 03 14	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH76-5	2005 03 14	10.5 - 10.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH76-6	2005 03 14	12.0 - 12.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
BH77	BH77-1	2005 03 14	1.5 - 1.5	-	-	-	-	-	-	-	< 250	710	-	-	-	-	-
	BH77-2	2005 03 14	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH77-3	2005 03 14	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH77-4	2005 03 14	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH77-5	2005 03 14	10.5 - 10.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH78	BH78-6	2005 03 15	9.0 - 9.0	-	-	-	-	-	-	-	**4,200**	710	-	-	-	-	-
	BH78-7	2005 03 15	10.5 - 10.5	-	-	-	-	-	-	-	**650**	< 250	-	-	-	-	-
	BH78-8	2005 03 15	12.0 - 12.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH78-9	2005 03 15	13.5 - 13.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH79	BH79-1	2005 03 15	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH79-2	2005 03 15	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH79-3	2005 03 15	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH79-4	2005 03 15	6.0 - 6.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH79-5	2005 03 15	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH79-6	2005 03 15	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH79-7	2005 03 15	10.5 - 10.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH80	BH80-5	2005 03 15	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH81	BH81-1	2005 03 15	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH81-2	2005 03 15	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH82	BH82-5	2005 03 15	9.0 - 9.0	-	-	-	-	-	-	-	**3,300**	< 250	-	-	-	-	-
	BH82-6	2005 03 15	13.5 - 13.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH82-7	2005 03 15	15.0 - 15.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH83	BH83-3	2005 03 15	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH83-4	2005 03 15	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH83-5	2005 03 15	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH85	BH85-1	2005 03 16	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH85-2	2005 03 16	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH85-3	2005 03 16	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR20	Duplicate	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
	BH85-4	2005 03 16	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH85-5	2005 03 16	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH85-6	2005 03 16	10.5 - 10.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH86	BH86-1	2005 03 16	0.3 - 0.3	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH86-2	2005 03 16	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH86-3	2005 03 16	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH86-4	2005 03 16	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH86-5	2005 03 16	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH86-6	2005 03 16	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR21	Duplicate	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
		QA/QC RPD%			-	-	-	-	-	-	*	*	-	-	-	-	-
	BH86-7	2005 03 16	10.5 - 10.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH87	BH87-1	2005 03 16	0.3 - 0.3	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH87-2	2005 03 16	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH87-4	2005 03 16	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH87-5	2005 03 16	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH88	BH88-1	2005 03 16	0.3 - 0.3	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH88-2	2005 03 16	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH88-3	2005 03 16	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH88-4	2005 03 16	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH88-5	2005 03 16	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH89	BH89-1	2005 03 16	0.3 - 0.3	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH89-2	2005 03 16	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH89-3	2005 03 16	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH89-4	2005 03 16	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH90	BH90-1	2005 03 16	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH90-2	2005 03 16	3.0 - 3.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH90-3	2005 03 16	6.0 - 6.0	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH90-4	2005 03 16	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH91	BH91-1	2005 03 17	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH91-2	2005 03 17	4.5 - 4.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH91-3	2005 03 17	7.5 - 7.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
BH92	BH92-1	2005 03 17	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH92-2	2005 03 17	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH92-3	2005 03 17	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH93	BH93-1	2005 03 17	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH93-2	2005 03 17	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH93-3	2005 03 17	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH94	BH94-1	2005 03 17	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH94-2	2005 03 17	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH94-3	2005 03 17	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH94-4	2005 03 17	6.0 - 6.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
BH95	BH95-1	2005 03 17	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH95-2	2005 03 17	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH95-3	2005 03 17	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH96	BH96-1	2005 03 17	1.5 - 1.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	-	-	-	-	-	-	-
BH98	BH98-5	2005 03 17	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH99	BH99-1	2005 03 17	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH99-2	2005 03 17	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH99-3	2005 03 17	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH99-4	2005 03 17	10.5 - 10.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH99-5	2005 03 17	13.5 - 13.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH100	BH100-1	2005 03 17	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH100-2	2005 03 17	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH100-3	2005 03 17	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	GR22	Duplicate	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	QA/QC RPD%				-	-	-	-	-	-	*	*	-	-	-	-	-
	BH100-4	2005 03 17	7.5 - 7.5	-	< 0.04[a]	< 0.5[a]	< 0.5[a]	< 0.5	-	< 100	< 250	< 250	-	-	-	-	-
	BH100-5	2005 03 17	9.0 - 9.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH100-6	2005 03 17	10.2 - 10.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH102	BH102-2	2005 03 18	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH102-3	2005 03 18	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH102-4	2005 03 18	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
BH104	BH104-1	2005 03 18	1.5 - 1.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH104-2	2005 03 18	3.0 - 3.0	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH104-3	2005 03 18	4.5 - 4.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
	BH104-4	2005 03 18	7.5 - 7.5	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
SS4	SS4	2005 11 08	0.0 - 0.1	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 100	**1,900**	**29,000**	-	-	-	-	-
MR1	MR-1	2006 07 29	0.0 - 0.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
MR2	MR-2	2006 07 29	0.0 - 0.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
MR3	MR-3	2006 07 29	0.0 - 0.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
MR4	MR-4	2006 07 29	0.0 - 0.2	-	-	-	-	-	-	-	< 250	**860**	-	-	-	-	-
	GR2	Duplicate	0.0 - 0.2	-	-	-	-	-	-	-	< 250	**920**	-	-	-	-	-
	QA/QC RPD%				-	-	-	-	-	-	*	7	-	-	-	-	-
MR5	MR-5	2006 07 29	0.0 - 0.2	-	-	-	-	-	-	-	< 250	< 250	-	-	-	-	-
RES1	125-66.02-JLM-RES1-2	2006 07 29	0.6 - 0.6	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
RES2	125-66.02-JLM-RES2-1	2006 07 29	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
RES3	125-66.02-JLM-RES3-1	2006 07 29	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
RES4	125-66.02-JLM-RES4-1	2006 07 29	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
RES5	125-66.02-JLM-RES5-2	2006 07 29	0.0 - 0.2	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
	125-66.02-JLM-GR1	Duplicate	0.0 - 0.2	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
	QA/QC RPD%				*	*	*	*	-	*	*	*	*	*	*	*	-
RES6	125-66.02-JLM-RES6-1	2006 07 29	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
RES7	125-66.02-JLM-RES7-2	2006 07 29	0.0 - 0.2	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
RES8	125-66.02-JLM-RES8-1	2006 07 29	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
BH113M	BH113M-2	2006 08 14	22.8 - 22.8	-	< 0.005	< 0.018	< 0.02	0.02	< 0.5	< 100	< 250	< 250	-	< 80	< 250	-	-
BH115	BH115-1	2006 08 14	1.2 - 1.8	-	< 0.005	< 0.018	0.09	0.03	< 0.5	< 100	< 250	< 250	-	< 80	< 250	-	-
BH116	BH116-1	2006 08 14	1.2 - 1.8	-	< 0.005	< 0.018	< 0.02	0.02	< 0.5	< 100	< 250	< 250	-	< 80	< 250	-	-
BH117	BH117-1	2006 08 14	1.2 - 1.8	-	< 0.005	< 0.018	0.04	0.03	< 0.5	< 100	< 250	< 250	-	< 80	< 250	-	-
SP1	SP1	2006 08 14	0.0 - 0.1	-	0.005	< 0.018	< 0.02	0.04	< 0.5	< 100	450	530	-	95	***550***	-	-
	GR58	Duplicate	0.0 - 0.1	-	< 0.005	< 0.018	0.02	0.04	< 0.5	< 100	380	480	-	84	***540***	-	-
	QA/QC RPD%				*	*	*	*	*	*	17	10	-	*	2	-	-
GARDEN1	Garden 1	2006 08 19	0.0 - 0.1	-	0.005	< 0.018	< 0.02	0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
	Garden 1A	2009 10 18	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	< 70	< 100	< 500	< 0.05
	FSGR3	Duplicate	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	< 70	< 100	< 500	< 0.05
	QA/QC RPD%				*	*	*	*	-	*	-	-	*	*	*	*	*
	Garden 1B	2009 10 18	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	< 70	160	< 500	< 0.05
GARDEN2	Garden 2	2006 08 19	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	< 250	< 250	< 25	< 80	< 250	< 250	-
MSV1	MSV1-1	2009 10 14		-	< 0.005	0.026	< 0.02	1.7	-	**250**	-	-	***250***	***2,100***	***3,000***	850	< 0.05
	MSV1-3	2009 10 14		-	< 0.005	***1.4***	0.06	**10**	-	**540**	-	-	***540***	***4,900***	***3,300***	< 500	< 0.05
BH120M	BH120M-1	2009 10 16	0.0 - 0.6	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	***560***	***1,200***	< 500	< 0.05
	BH120M-3	2009 10 16	3.7 - 4.3	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	< 70	< 100	< 500	< 0.05
	FSGR	Duplicate	3.7 - 4.3	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	70	100	< 500	< 0.05
	QA/QC RPD%				*	*	*	*	-	*	-	-	*	*	*	*	*
AEC7A	AEC7A	2009 10 19	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	< 70	< 100	< 500	< 0.05
	FSGR4	Duplicate	0.0 - 0.1	-	< 0.005	< 0.018	< 0.02	< 0.02	-	< 100	-	-	< 10	< 70	< 100	< 500	< 0.05
	QA/QC RPD%				*	*	*	*	-	*	-	-	*	*	*	*	*
BH127	BH127-1	2010 08 26	0.5 - 0.8	-	< 0.005	***0.253***	< 0.05	6.05	< 0.05	**590**	**7,100**	670	***590***	***4,650***	***2,090***	34	< 0.2
	BH127-2	2010 08 26	1.1 - 1.4	-	0.0082	***0.09***	< 0.05	0.675	< 0.05	< 100	**8,300**	690	< 10	***4,260***	***1,590***	42	< 0.2
	GR2	Duplicate	1.1 - 1.4	-	< 0.005	***0.098***	< 0.05	0.768	< 0.05	< 100	**7,650**	520	15	***3,170***	***1,250***	41	< 0.2
	QA/QC RPD%				*	9	*	13	*	*	8	28	*	29	24	*	*
	BH127-3	2010 08 26	2.0 - 2.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	< 10	< 20	< 20	< 20	< 0.2
	BH127-6	2010 08 26	4.9 - 5.2	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	< 10	< 20	< 20	< 20	< 0.2
BH128	BH128-1	2010 08 26	0.3 - 0.6	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	270	< 10	< 20	280	308	< 0.2
	BH128-3	2010 08 26	1.8 - 2.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH129	BH129-1	2010 08 26	0.5 - 0.8	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
	BH129-3	2010 08 26	1.8 - 2.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH130	BH130-1	2010 08 27	0.3 - 0.6	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
	BH130-2	2010 08 27	2.7 - 3.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH131	BH131-2	2010 08 27	0.9 - 1.2	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
	BH131-3	2010 08 27	1.4 - 1.5	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH132	BH132-2	2010 08 27	0.9 - 1.2	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	< 10	< 20	< 20	< 20	< 0.2
	BH132-3	2010 08 27	1.2 - 1.5	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	< 10	< 20	< 20	< 20	< 0.2
	GR3	Duplicate	1.2 - 1.5	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	< 10	< 20	< 20	< 20	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
	BH132-5	2010 08 27	2.7 - 3.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH133	BH133-2	2010 08 27	0.9 - 1.1	-	< 0.005	***0.098***	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
	BH133-3	2010 08 27	2.7 - 3.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH134	BH134-1	2010 08 27	1.5 - 1.8	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	340	-	-	-	-	< 0.2
BH135	BH135-3	2010 08 27	2.7 - 3.1	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	< 200	-	-	-	-	< 0.2
BH136	BH136-1	2010 08 26	0.3 - 0.5	-	< 0.005	< 0.015	< 0.05	< 0.071	< 0.05	< 100	< 200	**1,610**	-	-	-	-	< 0.2
BH12-01	BH12-01-15-AD05	2012 10 14	12.7 - 13.0	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	14	**878**	< 20	-	-	-	-	< 0.1
	BH12-01-32-AD05	2012 10 14	25.5 - 25.8	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	< 10	< 20	< 20	-	-	-	-	< 0.1
	BH12-01-36-AD05	2012 10 14	28.5 - 28.8	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	< 10	< 20	< 20	-	-	-	-	< 0.1
BH12-02	BH12-02-26-AD05	2012 10 15	18.8 - 19.1	-	-	-	-	-	-	-	34	27	-	-	-	-	-
	BH12-02-27-AD05	2012 10 15	19.5 - 19.8	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	**38**	**1,700**	189	-	-	-	-	< 0.1
	BH12-02-28-AD05	Duplicate	19.5 - 19.8	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	**36**	**1,740**	186	-	-	-	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	2	2	-	-	-	-	*
	BH12-02-30-AD05	2012 10 15	26.4 - 26.7	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	**34**	74	213	-	-	-	-	< 0.1
	BH12-02-31-AD05	Duplicate	26.4 - 26.7	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	< 10	106	125	-	-	-	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	36	52	-	-	-	-	*
	BH12-02-32-AD05	2012 10 15	27.9 - 28.2	-	< 0.02	< 0.05	< 0.05	< 0.1	< 0.05	< 10	< 20	< 20	-	-	-	-	< 0.1
SS12-09	SS12-09-AD05	2012 10 20	0.2 - 0.5	-	-	-	-	-	-	-	48	**481**	-	-	-	-	-
SS12-10	SS12-10-AD05	2012 10 20	0.2 - 0.5	-	-	-	-	-	-	-	< 20	26	-	-	-	-	-
BH13-03	BH13-03-23-AD05	2013 03 17	17.9 - 18.1	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 10	< 10	-	-	-	-	-
	BH13-03-25-AD05	2013 03 17	19.5 - 19.8	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 10	< 10	-	-	-	-	-
	BH13-03-33-AD05	2013 03 17	25.7 - 25.9	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	**50**	**3,620**	370	-	-	-	-	-
	BH13-03-A-AD05	Duplicate	25.7 - 25.9	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	**50**	**4,460**	450	-	-	-	-	-
	QA/QC RPD%				*	*	*	*	*	0	21	20	-	-	-	-	-
	BH13-03-34-AD05	2013 03 17	26.2 - 26.5	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	**60**	**3,200**	310	-	-	-	-	-
	BH13-03-35-AD05	2013 03 17	26.8 - 27.0	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	20	**1,800**	180	-	-	-	-	-
	BH13-03-36-AD05	2013 03 17	28.1 - 28.4	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	30	**2,770**	260	-	-	-	-	-
TP13-02	TP13-02-2	2013 08 22	1.7 - 2.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-03	TP13-03-1	2013 08 22	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-03-2	2013 08 22	1.0 - 2.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
TP13-04	TP13-04-1	2013 08 22	0.5 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-04-2	2013 08 22	1.5 - 1.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-05	TP13-05-1	2013 08 22	0.5 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-05-2	2013 08 22	1.5 - 1.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-06	TP13-06-1	2013 08 22	0.3 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-06-2	2013 08 22	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	10	**698**	< 200	-	-	-	-	< 0.2
TP13-07	TP13-07-1	2013 08 22	0.1 - 0.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-07-2	2013 08 22	0.7 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-08	TP13-08-1	2013 08 22	0.5 - 0.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-08-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-09	TP13-09-1	2013 08 22	0.5 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-09-101	Duplicate	0.5 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	TP13-09-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-10	TP13-10-1	2013 08 22	0.5 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-10-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-11	TP13-11-1	2013 08 22	0.0 - 0.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-11-102	Duplicate	0.0 - 0.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	TP13-11-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-12	TP13-12-1	2013 08 22	0.3 - 0.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-12-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-13	TP13-13-1	2013 08 22	0.4 - 0.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-13-2	2013 08 22	1.6 - 1.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-14	TP13-14-1	2013 08 22	0.3 - 0.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-14-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	115	-	-	-	-	< 0.2
TP13-15	TP13-15-1	2013 08 22	0.0 - 0.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-15-2	2013 08 22	0.4 - 0.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-16	TP13-16-1	2013 08 22	0.2 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**210**	**795**	-	-	-	-	< 0.2
	TP13-16-2	2013 08 22	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-18	TP13-18-1	2013 08 23	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-18-2	2013 08 23	1.4 - 1.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-19	TP13-19-1	2013 08 23	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-19-2	2013 08 23	1.8 - 2.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-20	TP13-20-1	2013 08 23	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-20-2	2013 08 23	2.4 - 2.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-21	TP13-21-1	2013 08 23	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-21-2	2013 08 23	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-22	TP13-22-1	2013 08 23	0.1 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-22-2	2013 08 23	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
TP13-23	TP13-23-1	2013 08 23	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	TP13-23-104	Duplicate	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	TP13-23-2	2013 08 23	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH13-04	BH13-04-21-AD05	2013 09 22	21.8 - 22.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-04-22-AD05	2013 09 22	22.6 - 22.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-04-30-AD05	2013 09 23	31.5 - 31.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH13-05	BH13-05-02-AD05	2013 09 23	1.1 - 1.4	-	< 0.01	< 0.02	< 0.04	0.28	< 0.06	**380**	**4,790**	< 200	-	-	-	-	< 0.2
	BH13-05-A	Duplicate	1.1 - 1.4	-	< 0.01	< 0.02	< 0.04	0.3	< 0.06	**460**	**5,400**	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	7	*	19	12	*	-	-	-	-	*
	BH13-05-14-AD05	2013 09 23	11.6 - 11.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**1,690**	431	-	-	-	-	< 0.2
	BH13-05-27-AD05	2013 09 24	21.9 - 22.2	-	< 0.01	< 0.134[a]	< 0.04	< 0.194	< 0.06	**500**	**11,700**	374	-	-	-	-	< 0.2
	BH13-05-28-AD05	2013 09 24	22.6 - 22.9	-	< 0.01	< 0.116[a]	< 0.04	< 0.18	< 0.06	**290**	**8,530**	465	-	-	-	-	< 0.2
	BH13-05-29-AD05	2013 09 24	23.0 - 23.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-05-30-AD05	2013 09 24	23.7 - 24.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-05-31-AD05	2013 09 24	24.9 - 25.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH13-06	BH13-06-01-AD05	2013 09 24	0.3 - 0.6	-	< 0.01	0.01	< 0.04	< 0.08	< 0.06	< 20	**308**	**1,440**	-	-	-	-	< 0.2
	BH13-06-02-AD05	2013 09 24	1.0 - 1.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-06-31-AD05	2013 09 25	31.7 - 32.0	-	< 0.01	0.016	< 0.04	< 0.08	< 0.06	**81**	**1,860**	150	-	-	-	-	< 0.2
	BH13-06-B	Duplicate	31.7 - 32.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	**120**	**2,530**	208	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	39	31	32	-	-	-	-	*
	BH13-06-32-AD05	2013 09 25	32.3 - 32.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	**120**	**2,540**	182	-	-	-	-	< 0.2
	BH13-06-33-AD05	2013 09 25	33.1 - 33.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-06-34-AD05	2013 09 25	33.9 - 34.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	21	116	< 200	-	-	-	-	< 0.2
	BH13-06-35-AD05	2013 09 25	34.6 - 34.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH13-07	BH13-07-01-AD05	2013 09 25	0.3 - 0.6	-	< 0.01	***2.1***	< 0.04	3.6	< 0.06	**820**	**5,330**	**426**	***850***	-	-	-	< 0.2
	BH13-07-02-AD05	2013 09 25	1.3 - 1.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	< 10	-	-	-	< 0.2
	BH13-07-21-AD05	2013 09 26	17.6 - 17.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	< 10	-	-	-	< 0.2
	BH13-07-22-AD05	2013 09 26	18.7 - 19.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH13-08	BH13-08-01	2013 11 30	0.3 - 0.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-08-02	2013 11 30	0.9 - 0.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-08-16	2013 11 30	12.6 - 12.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-08-42	2013 12 03	30.9 - 30.9	-	< 0.01	0.029	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH13-08-44	2013 12 03	33.5 - 33.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-09	BH14-09-02-AD05	2014 02 15	1.4 - 1.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-09-41-AD05	2014 02 17	31.2 - 31.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-09-40-AD05	2014 02 17	32.3 - 32.3	-	0.0076	< 0.02	0.03	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-10	BH14-10-02-AD05	2014 02 19	1.4 - 1.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-10-25-AD05	2014 02 19	16.6 - 16.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-10-35-AD05	2014 02 19	20.6 - 20.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-10-42-AD05	2014 02 20	31.9 - 31.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**580**	< 200	-	-	-	-	< 0.2
	BH14-10-44-AD05	2014 02 20	33.1 - 33.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	**46**	**877**	< 200	-	-	-	-	< 0.2
BH14-11	BH14-11-02-AD05	2014 02 21	1.4 - 1.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-11-02A-AD05	Duplicate	1.4 - 1.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	BH14-11-33-AD05	2014 02 22	21.3 - 21.3	-	0.0072	0.013	0.074	0.28	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-11-47-AD05	2014 02 23	30.5 - 30.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-13	BH14-13-01-AD05	2014 02 27	1.1 - 1.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**253**	274	-	-	-	-	< 0.2
	BH14-13-16-AD05	2014 02 27	3.4 - 3.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-13-17-AD05	2014 02 27	11.6 - 11.6	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-13-25-AD05	2014 02 27	18.1 - 18.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-13-25A-AD05	Duplicate	18.1 - 18.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	BH14-13-30-AD05	2014 02 28	22.1 - 22.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-13-30A-AD05	Duplicate	22.1 - 22.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
BH14-14	BH14-14-01-AD05	2014 02 27	0.2 - 0.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	147	121	-	-	-	-	< 0.2
	BH14-14-03-AD05	2014 02 27	1.1 - 1.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-14-05-AD05	2014 02 27	2.0 - 2.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-14-19-AD05	2014 02 28	11.4 - 11.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-15	BH14-15-07-AD05	2014 02 28	4.0 - 4.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-15-11-AD05	2014 03 01	8.4 - 8.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-15-13-AD05	2014 03 01	10.5 - 10.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**3,030**	1,230	-	-	-	-	< 0.2
	BH14-15-15-AD05	2014 03 01	12.8 - 12.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**653**	335	-	-	-	-	< 0.2
	BH14-15-18-AD05	2014 03 01	15.4 - 15.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	126	137	-	-	-	-	< 0.2
	BH14-15-26-AD05	2014 03 01	22.4 - 22.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	**40**	**2,020**	138	-	-	-	-	< 0.2
	BH14-15-27-AD05	2014 03 01	23.8 - 23.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-15-27A-AD05	Duplicate	23.8 - 23.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	116	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	BH14-15-30-AD05	2014 03 01	27.0 - 27.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	132	< 200	-	-	-	-	< 0.2
BH14-17	BH14-17-17-AD05	2014 03 01	10.7 - 10.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-17-2-AD05	2014 03 01	1.1 - 1.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	146	229	-	-	-	-	< 0.2
	BH14-17-6-AD05	2014 03 01	3.2 - 3.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).
SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
BH14-18	BH14-18-01-AD05	2014 03 02	0.3 - 0.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-18-19-AD05	2014 03 02	20.6 - 20.6	-	< 0.01	0.014	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-18-20-AD05	2014 03 02	22.4 - 22.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**171**	< 200	-	-	-	-	< 0.2
	BH14-18-25-AD05	2014 03 02	27.0 - 27.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**521**	< 200	-	-	-	-	< 0.2
	BH14-18-25A-AD05	Duplicate	27.0 - 27.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**259**	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	67	*	-	-	-	-	*
	BH14-18-27-AD05	2014 03 02	29.0 - 29.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	17	**1,130**	< 200	-	-	-	-	< 0.2
BH14-19	BH14-19-24-AD05	2014 03 04	18.9 - 18.9	-	-	-	-	-	-	-	< 200	< 200	-	-	-	-	-
	BH14-19-37-AD05	2014 03 05	31.2 - 31.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-19-41A-AD05	2014 03 05	32.8 - 32.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-19-41-AD05	2014 03 05	32.8 - 32.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-20	BH14-20-01-AD05	2014 03 03	1.8 - 1.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-20-06-AD05	2014 03 03	6.9 - 6.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-20-21-AD05	2014 03 03	22.0 - 22.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	**43**	**1,320**	105	-	-	-	-	< 0.2
	BH14-20-23-AD05	2014 03 03	23.9 - 23.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-20-23A-AD05	Duplicate	23.9 - 23.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
BH14-21	BH14-21-02-AD05	2014 03 03	1.2 - 1.4	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-21-12-AD05	2014 03 03	8.7 - 8.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-22	BH14-22-01-AD05	2014 03 04	1.2 - 1.2	-	0.022	0.013	0.097	0.076	< 0.06	< 20	< 200	234	-	-	-	-	< 0.2
	BH14-22-19-AD05	2014 03 04	26.8 - 26.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-22-19A-AD05	Duplicate	26.8 - 26.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	BH14-22-30-AD05	2014 03 04	29.1 - 29.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-23	BH14-23-01-AD05	2014 03 04	0.6 - 0.6	-	< 0.01	< 0.02	0.02	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-23-02-AD05	2014 03 04	1.2 - 1.2	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-23-15-AD05	2014 03 04	16.3 - 16.3	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-23-16-AD05	2014 03 04	17.5 - 17.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-23-17-AD05	2014 03 04	19.7 - 19.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-23-23-AD05	2014 03 04	27.0 - 27.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-23-23A-AD05	Duplicate	27.0 - 27.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
BH14-24	BH14-24-01-AD05	2014 03 05	0.8 - 0.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**208**	169	-	-	-	-	< 0.2
	BH14-24-02-AD05	2014 03 05	1.1 - 1.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-24-03-AD05	2014 03 05	1.5 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-24-12-AD05	2014 03 05	20.1 - 20.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-24-14-AD05	2014 03 05	20.7 - 20.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-24-15-AD05	2014 03 05	20.9 - 20.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-24-18-AD05	2014 03 05	24.7 - 24.7	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-25	BH14-25-01-AD05	2014 03 06	2.0 - 2.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-25-06-AD05	2014 03 06	9.9 - 9.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-25-09-AD05	2014 03 06	12.8 - 12.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	16	**561**	< 200	-	-	-	-	< 0.2
	BH14-25-09A-AD05	Duplicate	12.8 - 12.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	**415**	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	30	*	-	-	-	-	*
BH14-26	BH14-26-23-AD05	2014 03 07	32.8 - 32.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-27	BH14-27-01-AD05	2014 03 06	1.5 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-27-06-AD05	2014 03 06	7.8 - 7.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-27-10-AD05	2014 03 07	12.7 - 12.7	-	< 0.01	< 0.02	< 0.06	< 0.08	< 0.06	**540**	**1,830**	< 200	-	-	-	-	< 0.2
	BH14-27-10A-AD05	Duplicate	12.7 - 12.7	-	< 0.01	< 0.072	< 0.078	< 0.08	< 0.06	**1,600**	**3,200**	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	99	54	*	-	-	-	-	*
	BH14-27-11-AD05	2014 03 07	13.1 - 13.1	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH14-28	BH14-28-07-AD05	2014 03 07	12.8 - 12.8	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	BH14-28-10-AD05	2014 03 07	15.9 - 15.9	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-01	SS14-01-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-01-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-01-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-02	SS14-02-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-02-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-02-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-03	SS14-03-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-D1-01-AD05	Duplicate	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	SS14-03-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-03-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-04	SS14-04-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-04-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-04-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-05	SS14-05-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-05-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-05-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-06	SS14-06-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-06-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-06-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-07	SS14-07-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-07-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-07-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-08	SS14-08-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-08-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-08-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-D2-01-AD05	Duplicate	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
SS14-10	SS14-10-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-10-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-10-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-11	SS14-11-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-11-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-11-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-12	SS14-12-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-12-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-D4-01-AD05	Duplicate	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	SS14-12-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-13	SS14-13-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-13-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-13-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-14	SS14-14-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-14-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-14-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-D5-01-AD05	Duplicate	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
SS14-15	SS14-15-01-AD05	2014 02 21	0.0 - 0.5	-	0.03	< 0.02	0.098	0.049	< 0.06	< 20	**190**	**407**	-	-	-	-	< 0.2
	SS14-15-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.0154	< 0.02	0.021	< 0.08	< 0.06	< 20	< 200	134	-	-	-	-	< 0.2
	SS14-15-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-D6-01-AD05	Duplicate	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
SS14-17	SS14-17-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-17-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-17-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-18	SS14-18-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-18-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-18-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
SS14-19	SS14-19-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-19-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-19-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-20	SS14-20-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-20-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-20-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-21	SS14-21-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-21-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-21-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-22	SS14-22-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-D8-01-AD05	Duplicate	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	QA/QC RPD%				*	*	*	*	*	*	*	*	-	-	-	-	*
	SS14-22-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-22-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-23	SS14-23-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-23-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-23-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
SS14-24	SS14-24-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-24-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
	SS14-24-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.01	< 0.02	< 0.04	< 0.08	< 0.06	< 20	< 200	< 200	-	-	-	-	< 0.2
BH16-01	BH16-01-5	2016 03 14	11.6 - 11.9	25	< 0.0050	< 0.010	0.024	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
BH16-03	BH16-03-1	2016 03 07	0.5 - 0.6	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	107	< 100	< 10	59	68	< 10	< 0.10
	BH16-03-2	2016 03 07	1.5 - 1.8	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	73	190	160	< 0.10
	BH16-03-3	Duplicate	1.5 - 1.8	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	68	180	160	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	7	5	0	*
BH16-04	BH16-04-2	2016 03 14	0.6 - 0.9	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
	BH16-04-3	2016 03 14	1.5 - 2.1	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
	BH16-04-4	2016 03 14	4.3 - 4.6	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
BH16-05	BH16-05-1	2016 03 15	0.2 - 0.5	200	***0.032***	0.082	***0.15***	0.56	< 0.030	**220**	**1,710**	232	***230***	***1,400***	***730***	54	< 0.10
	BH16-05-3	2016 03 15	1.5 - 2.0	125	0.0075	< 0.010	0.029	0.045	< 0.030	< 10	425	< 100	< 10	***350***	190	22	< 0.10
	BH16-05-4	2016 03 15	4.1 - 4.6	25	0.0078	0.011	0.032	0.05	< 0.030	< 10	422	149	< 10	***330***	300	80	< 0.10
	BH16-05-7	2016 03 15	15.8 - 16.2	-	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
BH16-06	BH16-06-1	2016 03 07	0.5 - 0.6	75	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	106	< 10	16	150	98	< 0.10
BH16-08	BH16-08-1	2016 03 07	1.5 - 1.8	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	54	170	160	< 0.10
BH16-09	BH16-09-1	2016 03 07	1.5 - 1.8	150	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
BH16-10	BH16-10-1	2016 03 07	1.5 - 1.8	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	52	170	160	< 0.10
	BH16-10-2	2016 03 07	3.0 - 3.4	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
BH16-12	BH16-12-1	2016 03 11	0.9 - 1.2	75	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
	BH16-12-2	2016 03 11	5.5 - 5.8	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	102	< 10	< 10	120	66[f]	< 0.10
	BH16-12-3	2016 03 11	10.1 - 10.4	-	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	110	15[f]	< 0.10
	BH16-12-9	2016 03 12	20.7 - 21.0	-	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	95	**2,120**	271	***99***	***1,800***	730	31[f]	< 0.10
	BH16-12-10	Duplicate	20.7 - 21.0	-	< 0.0050	0.017	0.035	0.056	< 0.030	100	1,940	239	***110***	***1,700***	680	38[f]	< 0.10
	QA/QC RPD%				*	*	*	*	*	5	9	*	11	6	7	*	*
	BH16-12-13	2016 03 13	30.0 - 30.3	-	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	12	45	600[g]	< 0.10
BH16-13	BH16-13-03	2016 06 01	3.0 - 3.2	220	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	73	21	< 0.1
	BH16-13-04	Duplicate	3.0 - 3.2	330	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	69	18	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	6	*	*
	BH16-13-06	2016 06 01	7.9 - 8.1	40	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-14	BH16-14-03	2016 06 01	7.9 - 8.1	30	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	140	< 100	< 10	110	94	< 10	< 0.1
BH16-15	BH16-15-01	2016 06 01	1.5 - 1.7	130	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-15-02	2016 06 01	3.0 - 3.2	55	< 0.005	< 0.01	0.023	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-15-03	2016 06 01	7.9 - 8.1	75	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-15-04	Duplicate	7.9 - 8.1	75	< 0.005	< 0.01	0.022	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
BH16-16	BH16-16-03	2016 06 02	8.1 - 8.2	250	0.01	0.023	0.055	0.15	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-17	BH16-17-01	2016 06 02	2.0 - 2.1	0	< 0.005	< 0.01	0.028	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-17-04	2016 06 02	7.9 - 8.1	0	0.011	0.015	0.061	0.13	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-18	BH16-18-03	2016 06 02	8.1 - 8.2	15	< 0.005	< 0.01	0.025	< 0.04	< 0.03	< 10	220	< 100	< 10	***180***	26	< 10	< 0.1
	BH16-18-04	Duplicate	8.1 - 8.2	15	< 0.005	< 0.01	0.021	< 0.04	< 0.03	< 10	210	< 100	< 10	***170***	24	< 10	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	6	*	*	*
	BH16-18-05	2016 06 02	10.1 - 10.2	410	< 0.005	< 0.01	0.024	0.048	< 0.03	150	**2,700**	160	***170***	***2,700***	400	72	< 0.1
	BH16-18-06	2016 06 02	14.0 - 14.2	0	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-19	BH16-19-03	2016 06 02	7.9 - 8.1	0	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-19-04	2016 06 02	9.3 - 9.4	15	< 0.005	< 0.01	0.021	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-22	BH16-22-01	2016 06 03	1.2 - 1.4	85	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	**1,600**	**4,300**	< 10	***270***	***3,200***	1,100	< 0.1
BH16-23	BH16-23-01	2016 06 03	0.9 - 1.1	25	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	55	27	< 0.1
BH16-26	BH16-26-01	2016 06 03	0.5 - 0.6	-	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-27	BH16-27-01	2016 06 03	0.5 - 0.6	-	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-28	BH16-28-01	2016 06 03	0.5 - 0.6	-	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	32	< 10	< 0.1
	BH16-28-02	2016 06 03	3.0 - 3.2	-	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-30	BH16-30-01	2016 06 03	1.1 - 1.2	20	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-30-02	2016 06 03	2.7 - 2.9	10	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-36	BH16-36-01	2016 06 03	0.5 - 0.6	480	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-36-03	2016 06 03	2.7 - 3.0	10	0.0075	< 0.01	0.036	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-37	BH16-37-06	2016 06 04	7.9 - 8.1	10	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-37-07	2016 06 04	11.0 - 11.1	590	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-37-10	2016 06 04	20.1 - 20.3	190	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	480	< 100	10	***460***	170	< 10	< 0.1
	BH16-37-11	Duplicate	20.1 - 20.3	190	< 0.005	< 0.01	0.025	< 0.04	< 0.03	12	290	< 100	13	***250***	100	< 10	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	59	52	*	*
	BH16-37-12	2016 06 04	21.9 - 22.1	295	0.0061	< 0.01	0.022	< 0.04	< 0.03	< 10	< 100	< 100	< 10	40	34	< 10	< 0.1
	BH16-37-13	2016 06 04	23.9 - 24.1	35	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
BH16-38	BH16-38-01	2016 06 05	1.1 - 1.2	240	< 0.005	0.023	0.025	0.093	< 0.03	< 10	< 100	530	< 10	26	***710***	330	< 0.1
	BH16-38-04	2016 06 05	7.5 - 7.6	150	0.0053	0.011	0.023	< 0.04	< 0.03	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.1
	BH16-38-10	2016 06 05	32.6 - 32.8	560	< 0.005	< 0.01	< 0.02	< 0.04	< 0.03	180	**3,300**	290	***190***	***2,400***	1,100	< 20	< 0.1
	BH16-38-11	2016 06 05	32.6 - 32.8	560	0.008	0.02	0.033	< 0.04	< 0.03	**210**	**2,800**	230	***230***	***2,500***	1,100	110	< 0.1
BH17-40	BH17-40-01	2017 06 09	26.5 - 26.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	24	**3,370**	427	26	***2,710***	1,790	29	< 0.1
	BH17-40-02	2017 06 09	29.0 - 29.1	0	< 0.005	0.06	< 0.05	0.54	< 0.05	< 10	**3,510**	423	< 10	***2,650***	1,670	44	< 0.1
BH17-41	BH17-41-01	2017 06 12	29.6 - 29.9	0	0.006	0.04	< 0.05	0.38	< 0.05	< 10	74	43	< 10	29	70	30	< 0.1
	BH17-41-02	2017 06 12	32.6 - 32.9	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	82	< 20	< 10	41	30	28	< 0.1
BH17-42	BH17-42-03	2017 06 14	31.5 - 31.9	0	0.007	< 0.01	< 0.05	< 0.05	-	-	-	-	< 10	< 20	< 20	< 20	-
BH17-43	BH17-43-01	2017 06 16	26.1 - 26.2	140	< 0.005	< 0.01	< 0.05	< 0.05	-	-	-	-	***58***	***4,580***	***2,980***	< 20	-
	BH17-43-02	2017 06 16	29.1 - 29.3	65	< 0.005	0.03	< 0.05	0.27	< 0.05	41	**3,640**	396	***38***	***2,860***	1,720	< 20	< 0.1
	BH17-43-03	Duplicate	29.1 - 29.3	65	0.008	0.07	0.09	0.59	-	-	-	-	***37***	***1,280***	862	< 20	-
	QA/QC RPD%				*	*	*	74	-	-	-	-	*	76	66	*	-
BH17-44	BH17-44-01	2017 06 17	27.1 - 27.3	160	0.013	0.01	0.06	< 0.05	-	-	-	-	< 10	***579***	564	< 20	-
	BH17-44-02	2017 06 17	28.7 - 28.8	350	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	122	**3,600**	431	***114***	***2,770***	1,800	< 20	< 0.1
	BH17-44-03	2017 06 17	29.9 - 30.2	360	< 0.005	< 0.01	< 0.05	< 0.05	-	-	-	-	< 10	***1,230***	744	< 20	-
	BH17-44-04	2017 06 17	31.1 - 31.2	90	< 0.005	< 0.01	< 0.05	< 0.05	-	-	-	-	< 10	***684***	418	< 20	-
BH17-45	BH17-45-01	2017 06 19	31.1 - 31.4	35	< 0.005	0.03	< 0.05	0.32	-	-	-	-	< 10	***268***	252	< 20	-
	BH17-45-02	2017 06 19	32.0 - 32.3	90	< 0.005	0.01	< 0.05	< 0.05	< 0.05	19	924	132	18	***734***	373	70	< 0.1
	BH17-45-03	2017 06 19	34.7 - 35.1	65	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	**417**	567	29	***398***	***534***	54	< 20	< 0.1
	BH17-45-04	2017 06 19	36.3 - 36.6	60	< 0.005	< 0.01	< 0.05	< 0.05	-	-	-	-	< 10	21	25	< 20	-
	BH17-45-05	2017 06 20	36.6 - 36.9	-	< 0.02	***0.09***	0.07	0.8	< 0.05	-	-	-	-	-	-	-	< 0.1
BH17-47	BH17-47-04	2017 06 15	5.4 - 5.6	0	< 0.005	< 0.01	< 0.05	0.18	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-47-06	2017 06 15	6.4 - 6.6	25	0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	198	61	< 10	114	173	< 20	< 0.1
BH17-48	BH17-48-08	2017 06 15	5.4 - 5.6	25	< 0.005	< 0.01	0.06	0.18	< 0.05	< 10	58	44	< 10	27	86	< 20	< 0.1
	BH17-48-09	2017 06 15	6.4 - 6.6	5	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-48-10	2017 06 15	7.4 - 7.6	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-49	BH17-49-09	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
BH17-50	BH17-50-02	2017 06 13	1.4 - 1.6	115	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-50-03	2017 06 13	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-50-05	2017 06 13	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-50-06	Duplicate	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-50-09	2017 06 13	7.5 - 7.6	810	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-51	BH17-51-01	2017 06 13	0.4 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	818	477	< 10	***250***	***493***	37	< 0.1
	BH17-51-02	2017 06 13	1.4 - 1.6	420	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	229	132	< 10	100	176	54	< 0.1
	BH17-51-06	2017 06 13	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-51-09	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-52	BH17-52-07	2017 06 13	5.5 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
BH17-53	BH17-53-03	2017 06 13	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	BH17-53-04	Duplicate	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				*	*	*	*	-	*	*	*	*	*	*	*	-
	BH17-53-07	2017 06 13	5.5 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	BH17-53-09	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
BH17-54	BH17-54-02	2017 06 13	1.4 - 1.6	-	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	BH17-54-04	2017 06 13	3.5 - 3.7	170	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	BH17-54-06	2017 06 13	5.5 - 5.6	-	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	BH17-54-08	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
BH17-55	BH17-55-01	2017 06 13	0.4 - 0.6	80	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	28	< 10	< 20	< 20	45	-
	BH17-55-04	2017 06 13	2.4 - 2.6	90	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	35	-
	BH17-55-07	2017 06 13	5.0 - 5.2	0	0.006	< 0.01	< 0.05	0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	63	-
	BH17-55-11	2017 06 13	7.5 - 7.6	140	0.010	< 0.01	0.05	0.05	-	46	**2,130**	261	***44***	***1,540***	876	< 20	-
BH17-56	BH17-56-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-56-07	2017 06 14	5.5 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-56-08	Duplicate	5.5 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-56-09	2017 06 14	6.4 - 6.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-56-10	2017 06 14	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-57	BH17-57-05	2017 06 14	3.5 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-57-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-57-07	2017 06 14	5.3 - 5.5	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-58	BH17-58-05	2017 06 14	3.5 - 3.7	0	0.009	< 0.01	< 0.05	< 0.05	< 0.05	< 10	142	< 20	< 10	116	36	< 20	< 0.1
	BH17-58-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-58-07	2017 06 14	5.3 - 5.5	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	23	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-59	BH17-59-05	2017 06 14	4.0 - 4.1	35	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-59-06	2017 06 14	4.9 - 5.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	22	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-60	BH17-60-07	2017 06 14	5.0 - 5.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-60-08	Duplicate	5.0 - 5.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-61	BH17-61-06	2017 06 14	4.4 - 4.6	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-61-08	2017 06 14	5.2 - 5.3	0	-	-	-	-	-	-	< 20	< 20	-	< 20	< 20	< 20	-
	BH17-61-10	2017 06 14	6.7 - 6.9	490	-	-	-	-	-	-	< 20	< 20	-	< 20	< 20	< 20	-
	BH17-61-11	2017 06 14	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-62	BH17-62-07	2017 06 14	5.0 - 5.2	0	< 0.005	0.06	< 0.05	1.53	< 0.05	46	941	39	***45***	***854***	180	< 20	< 0.1
	BH17-62-08	2017 06 14	5.9 - 6.1	0	< 0.005	0.04	< 0.05	0.77	< 0.05	25	1,010	42	27	***986***	214	< 20	< 0.1
	BH17-62-10	2017 06 14	7.5 - 7.8	0	-	-	-	-	-	-	789	34	-	***684***	197	< 20	-
BH17-63	BH17-63-07	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-64	BH17-64-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-64-09	2017 06 14	5.9 - 6.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-64-11	2017 06 14	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-65	BH17-65-07	2017 06 15	4.4 - 4.6	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-65-11	2017 06 15	7.5 - 7.6	15	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
BH17-66	BH17-66-07	2017 06 15	4.4 - 4.6	60	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-66-09	2017 06 15	5.9 - 6.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BH17-66-10	Duplicate	6.7 - 6.9	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-66-13	2017 06 15	7.5 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
LIF-17F3	LIF-17F3-01	2017 11 09	13.1 - 13.4	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
LIF-17F6	LIF-17F6-01	2018 01 29	25.5 - 25.8	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	980	38	30	***773***	162	< 20	-
	LIF-17F6-02	2018 01 29	26.5 - 26.8	0	0.008	0.01	< 0.05	0.05	-	-	641	30	< 10	***461***	129	< 20	-
	LIF-17F6-03	2018 01 29	27.2 - 27.5	0	-	-	-	-	-	-	-	-	< 10	< 20	24	< 20	-
	LIF-17F6-04	2018 01 29	28.0 - 28.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F6-05	2018 01 29	28.7 - 29.1	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F6-06	Duplicate	28.7 - 29.1	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				*	*	*	*	-	-	*	*	*	*	*	*	-
	LIF-17F6-07	2018 01 29	29.9 - 30.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F6-09	2018 01 29	32.0 - 32.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F6-10	2018 01 29	33.5 - 33.9	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F6-11	2018 01 29	34.6 - 35.1	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F8	LIF-17F8-01	2017 11 08	20.6 - 21.0	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	84	559	25	***87***	***510***	135	< 20	< 0.1
LIF-17F9	LIF-17F9-01	2017 11 07	22.8 - 23.3	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
LIF-17F10	LIF-17F10-01	2017 11 09	22.8 - 23.1	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	100	**2,690**	137	***105***	***2,190***	615	< 20	< 0.1
LIF-17F14	LIF-17F14-01	2017 11 10	22.4 - 22.9	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	116	**2,460**	202	***120***	***1,430***	559	< 20	< 0.1
LIF-17F15	LIF-17F15-01	2017 11 10	22.8 - 23.1	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	60	1,700	49	***62***	***1,050***	234	< 20	< 0.1
LIF-17F17	LIF-17F17-01	2018 01 28	25.5 - 25.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F17-03	2018 01 28	27.1 - 27.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F17-05	2018 01 28	28.9 - 29.4	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F17-06	Duplicate	28.9 - 29.4	0	0.009	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				*	*	*	*	-	-	*	*	*	*	*	*	-
	LIF-17F17-08	2018 01 28	31.5 - 31.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F17-09	2018 01 28	32.5 - 32.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F17-10	2018 01 28	33.1 - 33.5	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F17-11	2018 01 28	34.5 - 34.9	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
LIF-17F18	LIF-17F18-01	2018 01 27	23.9 - 24.2	45	< 0.005	< 0.01	< 0.05	< 0.05	-	-	480	36	< 10	***385***	172	< 20	-
	LIF-17F18-02	2018 01 27	24.8 - 25.1	10	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F18-03	2018 01 27	25.6 - 25.9	30	< 0.005	< 0.01	< 0.05	< 0.05	-	-	1,030	63	20	***694***	258	< 20	-
	LIF-17F18-04	2018 01 27	26.5 - 26.8	55	-	-	-	-	-	-	-	-	***67***	***1,540***	571	< 20	-
	LIF-17F18-05	2018 01 27	27.7 - 28.2	95	< 0.005	< 0.01	< 0.05	< 0.05	-	-	**2,120**	< 20	***104***	***1,670***	241	< 20	-
	LIF-17F18-06	Duplicate	27.7 - 28.2	95	0.026	0.01	0.10	0.08	-	-	1,900	< 20	***76***	***1,560***	221	< 20	-
	QA/QC RPD%				*	*	*	*	-	-	11	*	31	7	9	*	-
	LIF-17F18-07	2018 01 27	29.0 - 29.3	50	-	-	-	-	-	-	-	-	25	***975***	230	< 20	-
	LIF-17F18-08	2018 01 27	30.5 - 30.8	185	< 0.005	< 0.01	< 0.05	< 0.05	-	-	1,340	64	***54***	***1,120***	263	< 20	-
	LIF-17F18-09	2018 01 27	31.5 - 31.9	260	-	-	-	-	-	-	-	-	14	***782***	210	< 20	-
	LIF-17F18-10	2018 01 27	32.5 - 32.8	300	< 0.005	< 0.01	< 0.05	< 0.05	-	-	1,550	76	***118***	***1,170***	261	< 20	-
	LIF-17F18-11	2018 01 27	33.4 - 34.0	160	< 0.005	< 0.01	< 0.05	< 0.05	-	-	435	24	< 10	***401***	88	< 20	-
	LIF-17F18-12	2018 01 27	34.7 - 35.3	0	< 0.005	< 0.01	< 0.05	< 0.05	-	-	< 20	< 20	< 10	< 20	< 20	< 20	-
LIF-17F19	LIF-17F19-01	2017 12 11	19.7 - 19.8	0	-	-	-	-	-	-	-	-	< 10	***597***	248	21	-
	LIF-17F19-02	2017 12 11	20.6 - 20.7	10	-	-	-	-	-	-	-	-	***38***	***1,570***	485	< 20	-
	LIF-17F19-03	2017 12 11	21.2 - 21.5	90	< 0.005	< 0.01	< 0.05	< 0.05	-	44	**2,010**	146	***44***	***1,700***	576	< 20	-
	LIF-17F19-04	Duplicate	21.2 - 21.5	90	0.009	0.01	< 0.05	0.07	-	71	1,200	91	***71***	***1,010***	354	< 20	-
	QA/QC RPD%				*	*	*	*	-	*	50	*	*	51	48	*	-
	LIF-17F19-05	2017 12 11	22.9 - 23.0	45	-	-	-	-	-	-	-	-	< 10	34	41	< 20	-
	LIF-17F19-06	2017 12 11	23.6 - 23.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F19-08	2017 12 11	25.0 - 25.1	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F19-10	2017 12 11	27.9 - 28.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F19-12	2017 12 11	31.1 - 31.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F19-13	2017 12 11	32.5 - 32.6	0	-	-	-	-	-	-	-	-	< 10	< 20	25	< 20	-
	LIF-17F19-14	2017 12 11	34.1 - 34.3	45	< 0.005	< 0.01	< 0.05	< 0.05	-	25	1,400	< 20	23	***1,040***	151	< 20	-
	LIF-17F19-15	2017 12 11	35.7 - 35.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F20	LIF-17F20-01	2017 10 26	27.1 - 27.7	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
LIF-17F23	LIF-17F23-02	2018 02 07	26.4 - 26.7	105	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F23-04	2018 02 07	27.9 - 28.3	15	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-05	Duplicate	27.9 - 28.3	15	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F23-07	2018 02 07	29.4 - 29.7	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-09	2018 02 07	30.9 - 31.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-10	2018 02 07	31.7 - 32.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-11	2018 02 07	32.5 - 32.9	0	< 0.005	< 0.01	< 0.05	< 0.05	-	28	767	82	29	***378***	237	< 20	-
	LIF-17F23-12	2018 02 07	33.2 - 33.5	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-13	2018 02 07	34.0 - 34.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-14	2018 02 07	34.7 - 35.1	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F23-15	2018 02 07	35.5 - 35.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F24	LIF-17F24-01	2017 11 29	25.1 - 25.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-02	2017 11 29	27.6 - 27.7	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-03	2017 11 29	29.0 - 29.1	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-05	2017 11 29	31.2 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-06	Duplicate	31.2 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F24-07	2017 11 29	31.4 - 32.9	5	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-08	2017 11 29	33.4 - 33.5	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-09	2017 11 29	34.3 - 34.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F24-10	2017 11 29	35.8 - 36.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F25	LIF-17F25-01	2017 11 28	23.8 - 24.1	380	-	-	-	-	-	-	-	-	23	***450***	200	43	-
	LIF-17F25-02	2017 11 28	25.0 - 25.3	135	-	-	-	-	-	-	-	-	***43***	***694***	358	23	-
	LIF-17F25-03	2017 11 28	25.6 - 25.9	210	< 0.005	< 0.01	< 0.05	< 0.05	-	48	1,430	120	***42***	***1,100***	464	35	-
	LIF-17F25-04	Duplicate	25.6 - 25.9	210	< 0.005	< 0.01	< 0.05	< 0.05	-	35	1,350	108	***35***	***926***	389	31	-
	QA/QC RPD%				*	*	*	*	-	*	6	11	*	17	18	*	-
	LIF-17F25-05	2017 11 28	26.3 - 26.6	210	-	-	-	-	-	-	-	-	< 10	***697***	266	27	-
	LIF-17F25-06	2017 11 28	27.1 - 27.4	145	-	-	-	-	-	-	-	-	13	***454***	189	36	-
	LIF-17F25-07	2017 11 28	28.0 - 28.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	27	-
	LIF-17F25-08	2017 11 28	28.7 - 29.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F25-10	2017 11 28	30.3 - 30.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F25-11	2017 11 28	31.5 - 31.9	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	67	< 20	< 10	47	25	< 20	-
	LIF-17F25-12	2017 11 28	32.5 - 32.8	0	-	-	-	-	-	-	-	-	< 10	***248***	62	24	-
	LIF-17F25-13	2017 11 28	33.1 - 33.4	105	-	-	-	-	-	-	-	-	< 10	***256***	72	36	-
	LIF-17F25-14	2017 11 28	33.8 - 34.1	0	-	-	-	-	-	-	-	-	< 10	91	25	20	-
	LIF-17F25-15	2017 11 28	34.7 - 35.1	15	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F26	LIF-17F26-01	2017 12 10	22.6 - 22.9	10	-	-	-	-	-	-	-	-	13	***1,020***	461	< 20	-
	LIF-17F26-02	Duplicate	22.6 - 22.9	10	-	-	-	-	-	-	-	-	23	***743***	348	22	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	31	28	*	-
	LIF-17F26-03	2017 12 10	23.5 - 23.6	40	-	-	-	-	-	-	-	-	***40***	***1,360***	565	< 20	-
	LIF-17F26-04	2017 12 10	24.1 - 24.2	70	-	-	-	-	-	-	-	-	***80***	***2,420***	957	< 20	-
	LIF-17F26-05	2017 12 10	25.0 - 25.1	115	0.008	< 0.01	< 0.05	< 0.05	-	71	1,980	151	***72***	***1,500***	465	40	-
	LIF-17F26-06	2017 12 10	25.8 - 25.9	110	-	-	-	-	-	-	-	-	***66***	***3,260***	1,140	< 20	-
	LIF-17F26-07	2017 12 10	26.5 - 26.7	25	-	-	-	-	-	-	-	-	< 10	***2,980***	602	< 20	-
	LIF-17F26-09	2017 12 10	27.7 - 27.9	5	-	-	-	-	-	-	-	-	< 10	28	< 20	< 20	-
	LIF-17F26-10	2017 12 10	28.8 - 29.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F26-12	2017 12 10	30.5 - 30.6	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F26-13	2017 12 10	32.8 - 32.9	150	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F26-14	2017 12 10	34.3 - 34.4	25	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F26-15	2017 12 10	35.7 - 35.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F27	LIF-17F27-01	2017 12 09	20.1 - 20.4	35	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	788	65	< 10	***679***	288	< 20	-
	LIF-17F27-02	Duplicate	20.1 - 20.4	35	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	453	58	< 10	***328***	203	< 20	-
	QA/QC RPD%				*	*	*	*	-	*	54	*	*	70	35	*	-
	LIF-17F27-03	2017 12 09	21.2 - 21.3	115	-	-	-	-	-	-	-	-	***84***	***1,510***	536	< 20	-
	LIF-17F27-04	2017 12 09	22.1 - 22.3	195	-	-	-	-	-	-	-	-	***72***	***1,240***	233	< 20	-
	LIF-17F27-05	2017 12 09	23.2 - 23.3	220	< 0.005	< 0.01	< 0.05	< 0.05	-	81	**2,940**	140	***82***	***2,450***	669	< 20	-
	LIF-17F27-06	2017 12 09	25.0 - 25.1	30	-	-	-	-	-	-	-	-	***61***	***3,530***	1,730	< 20	-
	LIF-17F27-07	2017 12 09	25.9 - 26.1	40	-	-	-	-	-	-	-	-	***52***	***1,170***	741	< 20	-
	LIF-17F27-08	2017 12 09	28.2 - 28.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F27-09	2017 12 09	26.8 - 27.0	0	-	-	-	-	-	-	-	-	19	139	94	< 20	-
LIF-17F30	LIF-17F30-01	2017 11 30	32.6 - 32.9	-	-	-	-	-	-	-	-	-	< 10	< 20	24	< 20	-
	LIF-17F30-02	2017 11 30	34.1 - 34.4	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F30-03	2017 11 30	35.8 - 36.0	-	-	-	-	-	-	-	-	-	< 10	< 20	29	< 20	-
	LIF-17F30-04	2017 11 30	37.4 - 37.5	-	-	-	-	-	-	-	-	-	< 10	< 20	30	< 20	-
LIF-17F31	LIF-17F31-01	2017 11 25	25.3 - 25.8	50	-	-	-	-	-	-	-	-	***48***	***1,500***	603	< 20	-
	LIF-17F31-02	Duplicate	25.3 - 25.8	50	-	-	-	-	-	-	-	-	***38***	***1,290***	564	28	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	15	7	*	-
	LIF-17F31-03	2017 11 25	26.5 - 26.8	55	-	-	-	-	-	-	-	-	20	***1,580***	659	< 20	-
	LIF-17F31-04	2017 11 25	27.1 - 27.4	70	-	-	-	-	-	-	-	-	11	***1,440***	648	30	-
	LIF-17F31-05	2017 11 25	28.0 - 28.3	220	-	-	-	-	-	-	-	-	< 10	***1,230***	496	22	-
	LIF-17F31-06	2017 11 25	28.7 - 29.0	85	-	-	-	-	-	-	-	-	< 10	***247***	123	26	-
	LIF-17F31-07	2017 11 25	29.4 - 29.7	160	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	22	-
	LIF-17F31-08	2017 11 25	30.8 - 31.1	135	-	-	-	-	-	-	-	-	< 10	***603***	236	27	-
LIF-17F32	LIF-17F32-01	2017 11 27	23.9 - 24.2	50	-	-	-	-	-	-	-	-	***104***	***2,000***	1,410	< 20	-
	LIF-17F32-02	2017 11 27	24.8 - 25.1	310	-	-	-	-	-	-	-	-	18	***1,710***	1,070	< 20	-
	LIF-17F32-03	2017 11 25	25.6 - 25.9	-	< 0.005	< 0.01	< 0.05	< 0.05	-	52	**4,040**	428	***34***	***2,680***	1,420	< 20	-
	LIF-17F32-04	Duplicate	25.6 - 25.9	420	-	-	-	-	-	-	-	-	***31***	***2,650***	1,440	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	1	1	*	-
	LIF-17F32-05	2017 11 27	26.5 - 26.8	440	-	-	-	-	-	-	-	-	28	***4,930***	1,200	< 20	-
	LIF-17F32-06	2017 11 27	27.1 - 27.4	95	-	-	-	-	-	-	-	-	< 10	40	29	< 20	-
	LIF-17F32-07	2017 11 27	27.9 - 28.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F32-08	2017 11 27	28.7 - 29.0	145	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F32-10	2017 11 27	30.3 - 30.8	75	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F32-12	2017 11 24	32.9 - 33.2	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F32-13	2017 11 27	34.6 - 34.9	280	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F33	LIF-17F33-01	2017 12 08	21.2 - 21.3	0	-	-	-	-	-	-	-	-	10	***762***	804	< 20	-
	LIF-17F33-02	2017 12 08	22.1 - 22.3	0	-	-	-	-	-	-	-	-	< 10	***231***	297	< 20	-
	LIF-17F33-03	2017 12 08	22.3 - 22.4	0	-	-	-	-	-	-	-	-	< 10	< 20	26	< 20	-
	LIF-17F33-04	2017 12 08	23.3 - 23.6	0	< 0.005	0.01	< 0.05	0.06	-	< 10	88	< 20	< 10	49	67	< 20	-
	LIF-17F33-05	Duplicate	23.3 - 23.6	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	55	< 20	< 10	29	37	< 20	-
	QA/QC RPD%				*	*	*	*	-	*	*	*	*	*	*	*	-
	LIF-17F33-06	2017 12 08	24.8 - 25.0	65	< 0.005	< 0.01	< 0.05	< 0.05	-	63	**2,670**	282	***65***	***1,750***	1,030	< 20	-
	LIF-17F33-07	2017 12 08	25.6 - 25.8	39	-	-	-	-	-	-	-	-	< 10	***283***	212	< 20	-
	LIF-17F33-08	2017 12 08	27.1 - 27.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F33-09	2017 12 08	28.7 - 28.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F33-10	2017 12 08	29.7 - 29.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F36	LIF-17F36-01	2017 12 01	30.2 - 30.3	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F36-02	2017 12 01	31.1 - 31.4	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F36-03	Duplicate	31.1 - 31.4	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F36-05	2017 12 01	32.8 - 32.9	-	-	-	-	-	-	-	-	-	***36***	***560***	256	24	-
	LIF-17F36-06	2017 12 01	33.8 - 34.0	55	-	-	-	-	-	-	-	-	***60***	***895***	362	27	-
	LIF-17F36-07	2017 12 01	34.2 - 34.4	210	< 0.005	< 0.01	< 0.05	0.05	-	38	1,120	74	***38***	***891***	286	28	-
	LIF-17F36-08	2017 12 01	35.7 - 36.0	500	< 0.005	< 0.01	< 0.05	< 0.05	-	**543**	302	< 20	***540***	***271***	23	31	-
LIF-17F39	LIF-17F39-01	2017 12 03	30.5 - 30.6	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F39-02	2017 12 03	31.2 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F39-03	Duplicate	31.2 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F39-04	2017 12 03	32.8 - 32.9	0	-	-	-	-	-	-	-	-	< 10	***426***	345	< 20	-
	LIF-17F39-05	2017 12 03	34.0 - 34.1	0	-	-	-	-	-	-	-	-	20	***2,250***	1,250	< 20	-
	LIF-17F39-06	2017 12 03	34.3 - 34.4	45	0.006	< 0.01	< 0.05	< 0.05	-	< 10	738	81	< 10	***571***	319	< 20	-
	LIF-17F39-07	2017 12 03	35.8 - 36.0	25	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).
SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

TABLE 1 (Cont'd): Summary of Analytical Results for Hydrocarbons in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19)[e] µg/g	HEPH (C19-C32)[e] µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
LIF-17F40	LIF-17F40-01	2017 12 04	31.1 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F40-02	2017 12 04	32.7 - 32.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F40-03	2017 12 04	34.3 - 34.4	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F40-04	2017 12 04	35.8 - 36.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F40-05	2017 12 04	37.0 - 37.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F40-06	2017 12 04	37.3 - 37.5	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F41	LIF-17F41-03	2017 11 24	29.0 - 29.3	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F41-04	2017 11 24	30.0 - 30.3	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F41-05	2017 11 24	31.1 - 31.4	-	-	-	-	-	-	-	-	-	< 10	112	76	< 20	-
	LIF-17F41-06	2017 11 24	31.7 - 32.0	-	< 0.005	< 0.01	< 0.05	< 0.05	-	35	670	92	***36***	***547***	267	< 20	-
	LIF-17F41-07	2017 11 24	32.5 - 32.9	-	-	-	-	-	-	-	-	-	< 10	***1,220***	628	< 20	-
	LIF-17F41-08	2017 11 24	33.2 - 33.8	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F41-09	2017 11 24	34.6 - 35.1	-	-	-	-	-	-	-	-	-	< 10	< 20	39	< 20	-
LIF-17F43	LIF-17F43-01	2017 10 25	10.1 - 10.7	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
LIF-17F46	LIF-17F46-01	2017 11 19	12.0 - 12.5	-	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	23	168	< 20	21	135	< 20	< 20	< 0.1
LIF-17F47	LIF-17F47-02	2017 12 06	31.1 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F47-03	Duplicate	31.1 - 31.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F47-04	2017 12 06	32.0 - 32.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F47-05	2017 12 06	32.8 - 32.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F47-06	2017 12 06	34.3 - 34.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F47-07	2017 12 06	35.8 - 36.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F47-08	2017 12 06	37.3 - 37.5	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F48	LIF-17F48-01	2017 12 05	26.5 - 26.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F48-02	Duplicate	26.5 - 26.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F48-04	2017 12 05	28.2 - 28.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F48-06	2017 12 05	29.6 - 29.7	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F48-07	2017 12 05	30.8 - 31.1	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F48-09	2017 12 05	32.0 - 32.2	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F48-11	2017 12 05	33.7 - 33.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F48-13	2017 12 05	35.8 - 36.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F49	LIF-17F49-04	2017 12 07	32.2 - 32.3	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F49-05	2017 12 07	32.8 - 32.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F49-06	2017 12 07	34.3 - 34.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F49-07	2017 12 07	35.8 - 36.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F49-08	2017 12 07	37.3 - 37.5	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F52	LIF-17F52-01	2018 02 07	25.5 - 25.8	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F52-02	2018 02 07	26.5 - 26.8	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F52-03	2018 02 07	27.1 - 27.4	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F52-04	2018 02 07	27.9 - 28.3	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F52-05	Duplicate	27.9 - 28.3	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F52-06	2018 02 07	28.7 - 29.0	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F52-07	2018 02 07	29.4 - 29.7	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F53	LIF-17F53-01	2018 02 01	20.7 - 21.0	115	-	-	-	-	-	-	-	-	***70***	***978***	326	< 20	-
	LIF-17F53-02	2018 02 01	21.6 - 21.9	210	< 0.005	< 0.01	< 0.05	< 0.05	-	154	**2,630**	193	***165***	***2,350***	805	< 20	-
	LIF-17F53-03	2018 02 01	22.6 - 22.9	200	-	-	-	-	-	-	-	-	***44***	***2,290***	783	< 20	-
	LIF-17F53-04	2018 02 01	23.3 - 23.6	230	< 0.005	< 0.01	< 0.05	< 0.05	-	58	**3,670**	252	***68***	***3,370***	1,100	< 20	-
	LIF-17F53-05	Duplicate	23.3 - 23.6	230	< 0.005	< 0.01	< 0.05	< 0.05	-	36	**3,380**	234	***46***	***2,800***	917	< 20	-
	QA/QC RPD%				*	*	*	*	-	*	8	7	*	18	18	*	-
	LIF-17F53-06	2018 02 01	24.2 - 24.4	165	-	-	-	-	-	-	-	-	***66***	***3,190***	1,050	< 20	-
	LIF-17F53-07	2018 02 01	24.7 - 25.0	90	-	-	-	-	-	-	-	-	***103***	***3,370***	1,370	< 20	-
	LIF-17F53-08	2018 02 01	25.3 - 25.6	65	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	**3,230**	256	< 10	***2,610***	1,080	< 20	-
	LIF-17F53-09	2018 02 01	26.0 - 26.4	15	-	-	-	-	-	-	-	-	< 10	25	21	< 20	-
	LIF-17F53-10	2018 02 01	27.1 - 27.4	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F53-11	2018 02 01	27.7 - 28.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F53-13	2018 02 01	29.4 - 29.7	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
LIF-17F54	LIF-17F54-01	2018 01 30	22.3 - 22.6	-	-	-	-	-	-	-	-	-	***95***	***1,600***	524	< 20	-
	LIF-17F54-02	2018 01 30	23.5 - 23.8	-	< 0.005	< 0.01	< 0.05	< 0.05	-	37	**3,570**	264	***46***	***3,480***	1,180	< 20	-
	LIF-17F54-03	2018 01 30	24.1 - 27.5	-	-	-	-	-	-	-	-	-	***66***	***1,030***	380	< 20	-
	LIF-17F54-04	2018 01 30	25.0 - 25.3	-	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	176	< 20	< 10	***169***	54	< 20	-
	LIF-17F54-05	2018 01 30	25.6 - 25.9	-	-	-	-	-	-	-	-	-	***59***	***304***	238	< 20	-
	LIF-17F54-06	2018 01 30	26.4 - 26.8	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F54-07	Duplicate	26.4 - 26.8	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	QA/QC RPD%				-	-	-	-	-	-	-	-	*	*	*	*	-
	LIF-17F54-08	2018 01 30	27.4 - 27.7	-	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F54-10	2018 01 31	29.6 - 29.9	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F54-12	2018 01 31	31.4 - 31.7	10	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F54-13	2018 01 31	32.5 - 32.8	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F54-14	2018 01 31	33.2 - 33.5	55	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
	LIF-17F54-15	2018 01 31	34.1 - 34.4	55	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-
LIF-17F55	LIF-17F55-01	2018 02 02	19.2 - 19.5	155	< 0.005	< 0.01	< 0.05	< 0.05	-	63	**3,290**	195	***75***	***2,480***	858	< 20	-
	LIF-17F55-02	2018 02 02	20.2 - 20.6	25	-	-	-	-	-	-	-	-	***75***	***1,510***	531	< 20	-
	LIF-17F55-03	2018 02 02	21.0 - 21.3	10	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	613	59	< 10	***488***	266	< 20	-
	LIF-17F55-04	2018 02 02	21.8 - 22.1	0	-	-	-	-	-	-	-	-	< 10	***490***	204	< 20	-
	LIF-17F55-05	2018 02 02	22.3 - 22.6	0	-	-	-	-	-	-	-	-	***56***	***2,100***	514	< 20	-
	LIF-17F55-06	2018 02 02	23.5 - 23.8	0	-	-	-	-	-	-	-	-	***65***	***2,920***	368	< 20	-
	LIF-17F55-07	2018 02 02	24.1 - 24.4	30	< 0.005	< 0.01	< 0.05	< 0.05	-	122	**5,010**	66	***136***	***3,680***	473	< 20	-
	LIF-17F55-08	Duplicate	24.1 - 24.4	30	< 0.005	< 0.01	< 0.05	< 0.05	-	127	**5,420**	71	***139***	***4,690***	613	< 20	-
	QA/QC RPD%				*	*	*	*	-	4	8	*	2	24	26	*	-
	LIF-17F55-09	2018 02 02	24.8 - 25.1	165	-	-	-	-	-	-	-	-	***168***	***9,070***	995	< 20	-
	LIF-17F55-10	2018 02 02	25.6 - 25.9	165	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	**2,890**	124	< 10	***2,690***	645	< 20	-
	LIF-17F55-11	2018 02 02	26.4 - 26.7	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F55-12	2018 02 02	27.0 - 27.3	0	-	-	-	-	-	-	-	-	< 10	***809***	100	< 20	-
	LIF-17F55-13	2018 02 02	27.7 - 28.0	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
	LIF-17F55-15	2018 02 02	29.4 - 29.7	0	-	-	-	-	-	-	-	-	< 10	< 20	< 20	< 20	-
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[c]					0.03[h]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[d]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17N294759, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.
[g] F4 value did not return to baseline and as such F4 Gravimetric (Gravimetric Heavy Hydrocarbons) was completed; the greater of the two is reported.
[h] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

SHADED VPH, LEPH or HEPH concentration greater than CCME CWS Residential F1, F2 or F3 standard (potential CCME exceedance), only applied where no F1, F2 or F3 concentration is available.

TABLE 2: Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
TP-05	FS-05-1.0	2002 10 05	1.0 - 1.0	-	< 0.05[a]	-	-	< 0.05	< 0.04	< 0.05	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
TP-35	FS-35-1.0	2002 10 05	1.0 - 1.0	-	< 0.05[a]	-	-	< 0.05	< 0.04	< 0.05	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH01	BH01-01	2003 01 01	1.2 - 1.2	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH02	BH02-01	2003 01 01	1.2 - 1.2	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH02-08	2003 01 01	6.6 - 6.6	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH03	BH03-08	2003 01 01	10.1 - 10.1	-	< 0.06[a]	-	-	-	-	-	***0.08***	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH04	BH04-03	2003 01 01	4.3 - 4.3	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH04-05	2003 01 01	7.3 - 7.3	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH04-06	2003 01 01	8.8 - 8.8	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH05	BH05-07	2003 01 01	8.5 - 8.5	-	< 0.05[a]	-	-	-	-	-	***0.2***	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH06	BH06-05	2003 01 01	7.3 - 7.3	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH07	BH07-06	2003 01 01	8.8 - 8.8	-	< 0.5[a]	-	-	-	-	-	***0.5***	-	-	0.07	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH08	BH08-04	2003 01 01	5.8 - 5.8	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH08-08	2003 01 01	11.9 - 11.9	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH09	BH09-03	2003 01 01	4.3 - 4.3	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH09-07	2003 01 01	10.1 - 10.1	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH10	BH10-05	2003 01 01	7.3 - 7.3	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH10-08	2003 01 01	11.9 - 11.9	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH11	BH11-01	2003 01 01	1.2 - 1.2	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BHQAQC-01	Duplicate	1.2 - 1.2	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	QA/QC RPD%				*	-	-	-	-	-	*	-	-	*	*	-	*	-	-	*	*	*	*	-	-	-	-
	BH11-07	2003 01 01	10.4 - 10.4	-	***0.21***	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH12	BH12-01	2003 01 01	1.2 - 1.2	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BHQAQC-02	Duplicate	1.2 - 1.2	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	QA/QC RPD%				*	-	-	-	-	-	*	-	-	*	*	-	*	-	-	*	*	*	*	-	-	-	-
	BH12-05	2003 01 01	7.3 - 7.3	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH12-08	2003 01 01	11.9 - 11.9	-	< 0.06[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH16	BH16-2	2001 11 23	2.6	-	< 0.5[a]	-	< 0.5	< 0.5	< 0.5[a]	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.605	< 5.6[a]
BH24	BH24-1	2004 11 26	0.5 - 0.5	-	***1.3***	-	2	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH54	BH54-1	2004 11 30	1.5 - 1.5	-	< 0.5[a]	-	-	-	-	-	< 0.5[a]	-	-	< 0.5	< 0.5	-	< 0.5	-	-	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-
	BH54-2	2004 11 30	3.1 - 3.1	-	< 0.5[a]	-	-	-	-	-	< 0.5[a]	-	-	< 0.5	< 0.5	-	< 0.5	-	-	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-
BH67	BH67-1	2005 03 13	1.5 - 1.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH67-2	2005 03 13	3.0 - 3.0	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH78	BH78-3	2005 03 15	4.5 - 4.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH78-5	2005 03 15	7.5 - 7.5	-	< 0.5[a]	-	-	-	-	-	< 0.5[a]	-	-	< 0.5	< 0.5	-	< 0.5	-	-	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-
BH79	BH79-1	2005 03 15	1.5 - 1.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH79-4	2005 03 15	6.0 - 6.0	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH85	BH85-1	2005 03 16	1.5 - 1.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH87	BH87-5	2005 03 16	7.5 - 7.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH90	BH90-1	2005 03 16	1.5 - 1.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH90-2	2005 03 16	3.0 - 3.0	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
BH91	BH91-1	2005 03 17	1.5 - 1.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH91-2	2005 03 17	4.5 - 4.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
	BH91-3	2005 03 17	7.5 - 7.5	-	< 0.05[a]	-	-	-	-	-	< 0.05[a]	-	-	< 0.05	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-
SS4	SS4	2005 11 08	0.0 - 0.1	-	***0.7***	-	< 0.5	< 0.5	-	< 0.5[a]	< 0.5[a]	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.605	< 5.6[a]
MR1	MR-1	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
MR2	MR-2	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
MR3	MR-3	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
MR4	MR-4	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	GR2	Duplicate	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
MR5	MR-5	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
RES1	125-66.02-JLM-RES1-2	2006 07 29	0.6 - 0.6	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
RES2	125-66.02-JLM-RES2-1	2006 07 29	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
RES3	125-66.02-JLM-RES3-1	2006 07 29	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
RES4	125-66.02-JLM-RES4-1	2006 07 29	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
RES5	125-66.02-JLM-RES5-2	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	0.01	0.01	0.01	0.01	0.02	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	0.012	0.22
	125-66.02-JLM-GR1	Duplicate	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	0.02	0.01	< 0.01	0.01	0.2	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	0.029	***1.3***
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
RES6	125-66.02-JLM-RES6-1	2006 07 29	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
RES7	125-66.02-JLM-RES7-2	2006 07 29	0.0 - 0.2	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
RES8	125-66.02-JLM-RES8-1	2006 07 29	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
BH113M	BH113M-2	2006 08 14	22.8 - 22.8	-	< 0.05[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
SP1	SP1	2006 08 14	0.0 - 0.1	-	< 0.05[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	GR58	Duplicate	0.0 - 0.1	-	< 0.05[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
GARDEN1	Garden 1	2006 08 19	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	0.01	***0.07***	0.02	0.17	0.13	0.04	0.09	0.11	-	-	< 0.01	0.03	0.02	< 0.005	0.02	-	0.05	0.99
	Garden 1A	2009 10 18	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	FSGR3	Duplicate	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
	Garden 1B	2009 10 18	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
GARDEN2	Garden 2	2006 08 19	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
MSV1	MSV1-1	2009 10 14		-	***0.36***	-	0.83	< 0.005	0.089	0.12	***0.12***	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	MSV1-3	2009 10 14		-	***6.3***	-	17	< 0.005	***0.73***	***1.4***	***2.3***	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
AEC7A	AEC7A	2009 10 19	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	FSGR4	Duplicate	0.0 - 0.1	-	< 0.01	-	< 0.05	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
BH120M	BH120M-1	2009 10 16	0.0 - 0.6	-	***0.03***	-	0.06	< 0.005	0.01	0.02	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	BH120M-3	2009 10 16	3.7 - 4.3	-	***0.02***	-	0.09	< 0.005	< 0.005	0.01	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	FSGR	Duplicate	3.7 - 4.3	-	***0.02***	-	0.08	< 0.005	< 0.005	0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	-	< 0.01	< 0.11
	QA/QC RPD%				*	-	12	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
BH127	BH127-1	2010 08 26	0.5 - 0.8	-	< 1.7[a]	-	2.85	< 0.08	< 0.3[a]	***0.531***	***0.559***	< 0.3	< 0.05	< 0.25	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH127-2	2010 08 26	1.1 - 1.4	-	***8.63***	-	22.5	< 0.2	< 0.75[a]	***1.28***	***2.71***	< 0.3	< 0.075	0.259	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	GR2	Duplicate	1.1 - 1.4	-	***8.98***	-	20.9	< 0.26	< 0.7[a]	***1.16***	***2.47***	< 0.27	< 0.07	0.171	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	QA/QC RPD%				4	-	7	*	*	10	9	*	*	41	*	*	*	-	-	*	*	*	*	*	-	*	*
	BH127-3	2010 08 26	2.0 - 2.1	-	< 0.017[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH127-6	2010 08 26	4.9 - 5.2	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH128	BH128-1	2010 08 26	0.3 - 0.6	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH128-3	2010 08 26	1.8 - 2.1	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH129	BH129-1	2010 08 26	0.5 - 0.8	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH129-3	2010 08 26	1.8 - 2.1	-	< 0.02[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH130	BH130-1	2010 08 27	0.3 - 0.6	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH130-2	2010 08 27	2.7 - 3.1	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH131	BH131-2	2010 08 27	0.9 - 1.2	-	< 0.015[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH131-3	2010 08 27	1.4 - 1.5	-	< 0.015[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH132	BH132-2	2010 08 27	0.9 - 1.2	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH132-3	2010 08 27	1.2 - 1.5	-	***0.015***	-	< 0.05	< 0.05	< 0.05	0.075	***0.322***	0.066	0.101	0.069	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	GR3	Duplicate	1.2 - 1.5	-	< 0.015[a]	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
	BH132-5	2010 08 27	2.7 - 3.1	-	***0.06***	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH133	BH133-2	2010 08 27	0.9 - 1.1	-	***0.051***	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
	BH133-3	2010 08 27	2.7 - 3.1	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH134	BH134-1	2010 08 27	1.5 - 1.8	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH135	BH135-3	2010 08 27	2.7 - 3.1	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH136	BH136-1	2010 08 26	0.3 - 0.5	-	< 0.013	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.061	< 0.59
BH12-01	BH12-01-15-AD05	2012 10 14	12.7 - 13.0	-	***0.4***	2.5	0.8	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	BH12-01-32-AD05	2012 10 14	25.5 - 25.8	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	BH12-01-36-AD05	2012 10 14	28.5 - 28.8	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
BH12-02	BH12-02-26-AD05	2012 10 15	18.8 - 19.1	-	< 0.01	0.01	0.05	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	BH12-02-27-AD05	2012 10 15	19.5 - 19.8	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	0.04	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	BH12-02-28-AD05	Duplicate	19.5 - 19.8	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	0.04	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
	BH12-02-30-AD05	2012 10 15	26.4 - 26.7	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	BH12-02-31-AD05	Duplicate	26.4 - 26.7	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	-	*	*
	BH12-02-32-AD05	2012 10 15	27.9 - 28.2	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
SS12-09	SS12-09-AD05	2012 10 20	0.2 - 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
SS12-10	SS12-10-AD05	2012 10 20	0.2 - 0.5	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	-	-	< 0.02	< 0.05	< 0.02	< 0.02	< 0.05	-	< 0.040	< 0.29
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH13-03	BH13-03-23-AD05	2013 03 17	17.9 - 18.1	-	< 0.005	-	-	-	-	-	< 0.02	-	-	< 0.01	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
	BH13-03-25-AD05	2013 03 17	19.5 - 19.8	-	< 0.005	-	-	-	-	-	< 0.02	-	-	< 0.01	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
	BH13-03-33-AD05	2013 03 17	25.7 - 25.9	-	***0.084***	-	-	-	-	-	***1.02***	-	-	0.04	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
	BH13-03-A-AD05	Duplicate	25.7 - 25.9	-	***0.112***	-	-	-	-	-	***1.37***	-	-	0.06	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
	QA/QC RPD%				29	-	-	-	-	-	29	-	-	*	*	-	-	-	*	*	*	*	*	-	-	-	-
	BH13-03-34-AD05	2013 03 17	26.2 - 26.5	-	***0.073***	-	-	-	-	-	***1.38***	-	-	0.03	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
	BH13-03-35-AD05	2013 03 17	26.8 - 27.0	-	***0.058***	-	-	-	-	-	***0.82***	-	-	0.02	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
	BH13-03-36-AD05	2013 03 17	28.1 - 28.4	-	***0.079***	-	-	-	-	-	***1.33***	-	-	0.02	< 0.03	-	-	-	< 0.05	< 0.05	< 0.03	< 0.05	< 0.005	-	-	-	-
TP13-02	TP13-02-2	2013 08 22	1.7 - 2.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-03	TP13-03-1	2013 08 22	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-03-2	2013 08 22	1.0 - 2.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-04	TP13-04-1	2013 08 22	0.5 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-04-2	2013 08 22	1.5 - 1.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-05	TP13-05-1	2013 08 22	0.5 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-05-2	2013 08 22	1.5 - 1.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-06	TP13-06-1	2013 08 22	0.3 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-06-2	2013 08 22	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-07	TP13-07-1	2013 08 22	0.1 - 0.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-07-2	2013 08 22	0.7 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-08	TP13-08-1	2013 08 22	0.5 - 0.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-08-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-09	TP13-09-1	2013 08 22	0.5 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-09-101	Duplicate	0.5 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	TP13-09-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-10	TP13-10-1	2013 08 22	0.5 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-10-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-11	TP13-11-1	2013 08 22	0.0 - 0.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-11-102	Duplicate	0.0 - 0.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	TP13-11-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-12	TP13-12-1	2013 08 22	0.3 - 0.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-12-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-13	TP13-13-1	2013 08 22	0.4 - 0.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-13-2	2013 08 22	1.6 - 1.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-14	TP13-14-1	2013 08 22	0.3 - 0.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-14-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-15	TP13-15-1	2013 08 22	0.0 - 0.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-15-2	2013 08 22	0.4 - 0.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-16	TP13-16-1	2013 08 22	0.2 - 0.5	-	< 0.4[a]	-	< 0.4	< 0.4	< 0.4[a]	< 0.4[a]	< 0.4[a]	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	-	< 0.48	< 4.7[a]
	TP13-16-2	2013 08 22	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-18	TP13-18-1	2013 08 23	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-18-2	2013 08 23	1.4 - 1.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-19	TP13-19-1	2013 08 23	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-19-2	2013 08 23	1.8 - 2.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-20	TP13-20-1	2013 08 23	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-20-2	2013 08 23	2.4 - 2.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-21	TP13-21-1	2013 08 23	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-21-2	2013 08 23	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-22	TP13-22-1	2013 08 23	0.1 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-22-2	2013 08 23	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
TP13-23	TP13-23-1	2013 08 23	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	TP13-23-104	Duplicate	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	TP13-23-2	2013 08 23	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH13-04	BH13-04-21-AD05	2013 09 22	21.8 - 22.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-04-22-AD05	2013 09 22	22.6 - 22.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-04-30-AD05	2013 09 23	31.5 - 31.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH13-05	BH13-05-02-AD05	2013 09 23	1.1 - 1.4	-	***3.2***	-	34	< 2.8	< 3.4[a]	***1***	***0.45***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-05-A	Duplicate	1.1 - 1.4	-	***3.7***	-	36	< 3	< 3.6[a]	***1.3***	***0.49***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				14	-	6	*	*	26	9	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH13-05-14-AD05	2013 09 23	11.6 - 11.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-05-27-AD05	2013 09 24	21.9 - 22.2	-	< 0.28[a]	-	< 0.1	< 3	< 3.8[a]	***1.2***	***4.6***	< 0.34	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-05-28-AD05	2013 09 24	22.6 - 22.9	-	< 0.22[a]	-	< 0.1	< 1.92	< 3.2[a]	***1.2***	***1.6***	< 0.22	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-05-29-AD05	2013 09 24	23.0 - 23.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-05-30-AD05	2013 09 24	23.7 - 24.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-05-31-AD05	2013 09 24	24.9 - 25.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH13-06	BH13-06-01-AD05	2013 09 24	0.3 - 0.6	-	***0.066***	-	0.26	< 0.1	< 0.1	0.063	***0.075***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-06-02-AD05	2013 09 24	1.0 - 1.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-06-31-AD05	2013 09 25	31.7 - 32.0	-	< 0.1[a]	-	0.065	< 0.18	< 0.3[a]	***0.32***	***0.73***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-06-B	Duplicate	31.7 - 32.0	-	< 0.1[a]	-	< 0.1	< 0.32	< 0.54[a]	***0.41***	***0.93***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	25	24	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH13-06-32-AD05	2013 09 25	32.3 - 32.6	-	< 0.16[a]	-	< 0.1	< 0.16	< 0.56[a]	***0.68***	***1.1***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-06-33-AD05	2013 09 25	33.1 - 33.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-06-34-AD05	2013 09 25	33.9 - 34.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	***0.091***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-06-35-AD05	2013 09 25	34.6 - 34.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH13-07	BH13-07-01-AD05	2013 09 25	0.3 - 0.6	-	***3.2***	-	15	< 1.28	< 0.96[a]	***0.56***	***0.33***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-07-02-AD05	2013 09 25	1.3 - 1.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-07-21-AD05	2013 09 26	17.6 - 17.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-07-22-AD05	2013 09 26	18.7 - 19.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH13-08	BH13-08-01	2013 11 30	0.3 - 0.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-08-02	2013 11 30	0.9 - 0.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-08-16	2013 11 30	12.6 - 12.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-08-42	2013 12 03	30.9 - 30.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH13-08-44	2013 12 03	33.5 - 33.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-09	BH14-09-02-AD05	2014 02 15	1.4 - 1.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-09-41-AD05	2014 02 17	31.2 - 31.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-09-40-AD05	2014 02 17	32.3 - 32.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-10	BH14-10-02-AD05	2014 02 19	1.4 - 1.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-10-25-AD05	2014 02 19	16.6 - 16.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-10-35-AD05	2014 02 19	20.6 - 20.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-10-42-AD05	2014 02 20	31.9 - 31.9	-	< 0.1[a]	-	0.062	< 0.1	0.05	0.1	***0.19***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-10-44-AD05	2014 02 20	33.1 - 33.1	-	< 0.1[a]	-	0.097	< 0.1	0.086	0.2	***0.35***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-11	BH14-11-02-AD05	2014 02 21	1.4 - 1.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-11-02A-AD05	Duplicate	1.4 - 1.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH14-11-33-AD05	2014 02 22	21.3 - 21.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-11-47-AD05	2014 02 23	30.5 - 30.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-13	BH14-13-01-AD05	2014 02 27	1.1 - 1.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-13-16-AD05	2014 02 27	3.4 - 3.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-13-17-AD05	2014 02 27	11.6 - 11.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-13-25-AD05	2014 02 27	18.1 - 18.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-13-25A-AD05	Duplicate	18.1 - 18.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH14-13-30-AD05	2014 02 28	22.1 - 22.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-13-30A-AD05	Duplicate	22.1 - 22.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
BH14-14	BH14-14-01-AD05	2014 02 27	0.2 - 0.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-14-03-AD05	2014 02 27	1.1 - 1.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-14-05-AD05	2014 02 27	2.0 - 2.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-14-19-AD05	2014 02 28	11.4 - 11.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
All terms defined within the body of SNC-Lavalin's report.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH14-15	BH14-15-07-AD05	2014 02 28	4.0 - 4.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-11-AD05	2014 03 01	8.4 - 8.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-13-AD05	2014 03 01	10.5 - 10.5	-	***0.063***	-	1.3	< 0.1	< 0.14	< 0.1	***1.4***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-15-AD05	2014 03 01	12.8 - 12.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-18-AD05	2014 03 01	15.4 - 15.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-26-AD05	2014 03 01	22.4 - 22.4	-	< 0.1[a]	-	< 0.2	< 0.1	< 0.1	< 0.14	< 0.14[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-27-AD05	2014 03 01	23.8 - 23.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-15-27A-AD05	Duplicate	23.8 - 23.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH14-15-30-AD05	2014 03 01	27.0 - 27.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-17	BH14-17-17-AD05	2014 03 01	10.7 - 10.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-17-2-AD05	2014 03 01	1.1 - 1.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-17-6-AD05	2014 03 01	3.2 - 3.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-18	BH14-18-01-AD05	2014 03 02	0.3 - 0.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-18-19-AD05	2014 03 02	20.6 - 20.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-18-20-AD05	2014 03 02	22.4 - 22.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-18-25-AD05	2014 03 02	27.0 - 27.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-18-25A-AD05	Duplicate	27.0 - 27.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH14-18-27-AD05	2014 03 02	29.0 - 29.0	-	< 0.1[a]	-	< 0.18	< 0.1	< 0.1	< 0.26[a]	***0.17***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-19	BH14-19-24-AD05	2014 03 04	18.9 - 18.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-19-37-AD05	2014 03 05	31.2 - 31.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-19-41A-AD05	2014 03 05	32.8 - 32.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-19-41-AD05	2014 03 05	32.8 - 32.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-20	BH14-20-01-AD05	2014 03 03	1.8 - 1.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-20-06-AD05	2014 03 03	6.9 - 6.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-20-21-AD05	2014 03 03	22.0 - 22.0	-	< 0.1[a]	-	0.63	< 0.1	< 0.16	***0.41***	***0.58***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-20-23-AD05	2014 03 03	23.9 - 23.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-20-23A-AD05	Duplicate	23.9 - 23.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
BH14-21	BH14-21-02-AD05	2014 03 03	1.2 - 1.4	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-21-12-AD05	2014 03 03	8.7 - 8.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-22	BH14-22-01-AD05	2014 03 04	1.2 - 1.2	-	***0.076***	-	0.13	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-22-19-AD05	2014 03 04	26.8 - 26.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-22-19A-AD05	Duplicate	26.8 - 26.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH14-22-30-AD05	2014 03 04	29.1 - 29.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-23	BH14-23-01-AD05	2014 03 04	0.6 - 0.6	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-23-02-AD05	2014 03 04	1.2 - 1.2	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-23-15-AD05	2014 03 04	16.3 - 16.3	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-23-16-AD05	2014 03 04	17.5 - 17.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-23-17-AD05	2014 03 04	19.7 - 19.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-23-23-AD05	2014 03 04	27.0 - 27.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-23-23A-AD05	Duplicate	27.0 - 27.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
BH14-24	BH14-24-01-AD05	2014 03 05	0.8 - 0.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-24-02-AD05	2014 03 05	1.1 - 1.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-24-03-AD05	2014 03 05	1.5 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-24-12-AD05	2014 03 05	20.1 - 20.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-24-14-AD05	2014 03 05	20.7 - 20.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-24-15-AD05	2014 03 05	20.9 - 20.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-24-18-AD05	2014 03 05	24.7 - 24.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-25	BH14-25-01-AD05	2014 03 06	2.0 - 2.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-25-06-AD05	2014 03 06	9.9 - 9.9	-	< 0.1[a]	-	0.28	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-25-09-AD05	2014 03 06	12.8 - 12.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-25-09A-AD05	Duplicate	12.8 - 12.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH14-26	BH14-26-23-AD05	2014 03 07	32.8 - 32.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-27	BH14-27-01-AD05	2014 03 06	1.5 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-27-06-AD05	2014 03 06	7.8 - 7.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-27-10-AD05	2014 03 07	12.7 - 12.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.12	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-27-10A-AD05	Duplicate	12.7 - 12.7	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.3[a]	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH14-27-11-AD05	2014 03 07	13.1 - 13.1	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
BH14-28	BH14-28-07-AD05	2014 03 07	12.8 - 12.8	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	BH14-28-10-AD05	2014 03 07	15.9 - 15.9	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-01	SS14-01-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-01-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-01-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-02	SS14-02-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-02-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-02-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-03	SS14-03-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-D1-01-AD05	Duplicate	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	SS14-03-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-03-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-04	SS14-04-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-04-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-04-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-05	SS14-05-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-05-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-05-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-06	SS14-06-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-06-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-06-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-07	SS14-07-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-07-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-07-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-08	SS14-08-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-08-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-08-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-D2-01-AD05	Duplicate	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
SS14-10	SS14-10-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-10-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-10-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-11	SS14-11-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-11-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-11-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-12	SS14-12-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-12-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-D4-01-AD05	Duplicate	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	SS14-12-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-13	SS14-13-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-13-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-13-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
SS14-14	SS14-14-01-AD05	2014 02 20	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-14-02-AD05	2014 02 20	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-14-03-AD05	2014 02 20	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-D5-01-AD05	Duplicate	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
SS14-15	SS14-15-01-AD05	2014 02 21	0.0 - 0.5	-	***0.074***	-	0.13	< 0.1	< 0.1	< 0.1	***0.056***	< 0.1	< 0.1	0.091	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-15-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-15-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-D6-01-AD05	Duplicate	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
SS14-17	SS14-17-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-17-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-17-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-18	SS14-18-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-18-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-18-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-19	SS14-19-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-19-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-19-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-20	SS14-20-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-20-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-20-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-21	SS14-21-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-21-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-21-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-22	SS14-22-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-D8-01-AD05	Duplicate	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	SS14-22-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-22-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-23	SS14-23-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	0.062	0.48	0.41	0.25	0.24	-	-	0.32	0.11	0.25	0.15	< 0.1	0.17	-	0.39	***4.5***
	SS14-23-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-23-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
SS14-24	SS14-24-01-AD05	2014 02 21	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-24-02-AD05	2014 02 21	0.5 - 1.0	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	SS14-24-03-AD05	2014 02 21	1.0 - 1.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
FIRE14BKSS1	FIRE14BKSS1	2014 03 01	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
FIRE14BKSS2	FIRE14BKSS2	2014 03 02	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	0.23	< 0.1	< 0.1	< 0.1	-	0.3	***1.7***
FIRE14BKSS3	FIRE14BKSS3	2014 03 02	0.0 - 0.5	-	***0.051***	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	0.14	< 0.1	< 0.1	< 0.1	-	0.21	***1.4***
FIRE14SS4	FIRE14SS4	2014 02 28	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	***0.066***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	0.25	< 0.1	< 0.1	< 0.1	-	0.32	***1.7***
FIRE14SS5	FIRE14SS5	2014 03 01	0.0 - 0.5	-	***0.057***	-	0.1	< 0.1	< 0.1	< 0.1	***0.053***	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
FIRE14SS6	FIRE14SS6	2014 03 01	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
FIRE14SS8	FIRE14SS8	2014 03 01	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
	FIRE14-DUP1	Duplicate	0.0 - 0.5	-	< 0.1[a]	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1[a]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.12	< 1.2[a]
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	-	*	*
BH16	BH16-2	2004 11 23	2.6 - 2.6	-	< 0.5[a]	-	-	-	-	-	< 0.5[a]	-	-	< 0.5	< 0.5	-	< 0.5	-	-	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-
BH16-01	BH16-01-5	2016 03 14	11.6 - 11.9	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-03	BH16-03-1	2016 03 07	0.5 - 0.6	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-03-2	2016 03 07	1.5 - 1.8	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-03-3	Duplicate	1.5 - 1.8	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
BH16-04	BH16-04-2	2016 03 14	0.6 - 0.9	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-04-3	2016 03 14	1.5 - 2.1	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-04-4	2016 03 14	4.3 - 4.6	5	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-05	BH16-05-1	2016 03 15	0.2 - 0.5	200	***0.53***	-	1.6	< 0.0050	0.036	0.16	***0.11***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-05-3	2016 03 15	1.5 - 2.0	125	***0.18***	-	0.57	< 0.0050	0.0079	0.059	***0.05***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-05-4	2016 03 15	4.1 - 4.6	25	***0.19***	-	0.63	< 0.0050	< 0.0082	0.06	***0.051***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-05-7	2016 03 15	15.8 - 16.2	-	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-06	BH16-06-1	2016 03 07	0.5 - 0.6	75	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH16-08	BH16-08-1	2016 03 07	1.5 - 1.8	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-09	BH16-09-1	2016 03 07	1.5 - 1.8	150	***0.045***	-	0.032	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-10	BH16-10-1	2016 03 07	1.5 - 1.8	5	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-10-2	2016 03 07	3.0 - 3.4	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-12	BH16-12-1	2016 03 11	0.9 - 1.2	75	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-12-2	2016 03 11	5.5 - 5.8	5	0.013	-	< 0.020	0.014	0.016	0.022	***0.11***	0.076	0.89	0.54	0.37	0.49	-	-	0.6	0.18	0.29	0.1	< 0.050	0.1	-	0.44	***7.2***
	BH16-12-3	2016 03 11	10.1 - 10.4	-	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-12-9	2016 03 12	20.7 - 21.0	-	< 0.23[a]	-	1.5	< 0.29	< 0.11	< 0.59[a]	***0.89***	< 0.072	< 0.020	0.028	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	BH16-12-10	Duplicate	20.7 - 21.0	-	< 0.21[a]	-	1.4	< 0.043	< 0.096	***0.55***	***0.81***	< 0.063	< 0.020	0.025	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
	QA/QC RPD%				*	-	7	*	*	*	9	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH16-12-13	2016 03 13	30.0 - 30.3	-	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	-	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	< 0.10	0.31
BH16-13	BH16-13-03	2016 06 01	3.0 - 3.2	220	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-13-04	Duplicate	3.0 - 3.2	330	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH16-13-06	2016 06 01	7.9 - 8.1	40	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-14	BH16-14-03	2016 06 01	7.9 - 8.1	30	< 0.01	-	0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-15	BH16-15-01	2016 06 01	1.5 - 1.7	130	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-15-02	2016 06 01	3.0 - 3.2	55	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-15-03	2016 06 01	7.9 - 8.1	75	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-15-04	Duplicate	7.9 - 8.1	75	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
BH16-16	BH16-16-03	2016 06 02	8.1 - 8.2	250	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-17	BH16-17-01	2016 06 02	2.0 - 2.1	0	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-17-04	2016 06 02	7.9 - 8.1	0	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-18	BH16-18-03	2016 06 02	8.1 - 8.2	15	< 0.01	-	< 0.02	< 0.005	0.0057	< 0.02	0.024	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-18-04	Duplicate	8.1 - 8.2	15	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	0.024	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH16-18-05	2016 06 02	10.1 - 10.2	410	< 0.01	-	0.056	< 0.005	0.08	< 0.02	< 0.01	0.0048	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-18-06	2016 06 02	14.0 - 14.2	0	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-19	BH16-19-03	2016 06 02	7.9 - 8.1	0	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-19-04	2016 06 02	9.3 - 9.4	15	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-22	BH16-22-01	2016 06 03	1.2 - 1.4	85	< 0.01	-	< 0.02	< 0.005	0.0058	< 0.02	< 0.01	0.02	< 0.02	0.2	< 0.02	0.17	-	-	0.061	< 0.02	0.059	< 0.05	< 0.05	0.054	-	0.097	0.84
BH16-23	BH16-23-01	2016 06 03	0.9 - 1.1	25	< 0.01	-	< 0.02	0.022	< 0.005	< 0.02	0.024	0.053	0.19	0.23	0.087	0.38	-	-	0.66	0.21	0.41	0.37	0.066	0.59	-	0.62	***7.5***
BH16-26	BH16-26-01	2016 06 03	0.5 - 0.6	-	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-27	BH16-27-01	2016 06 03	0.5 - 0.6	-	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-28	BH16-28-01	2016 06 03	0.5 - 0.6	-	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	0.014	< 0.004	< 0.02	0.023	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-28-02	2016 06 03	3.0 - 3.2	-	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-30	BH16-30-01	2016 06 03	1.1 - 1.2	20	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-30-02	2016 06 03	2.7 - 2.9	10	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-36	BH16-36-01	2016 06 03	0.5 - 0.6	480	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-36-03	2016 06 03	2.7 - 3.0	10	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-37	BH16-37-06	2016 06 04	7.9 - 8.1	10	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-37-07	2016 06 04	11.0 - 11.1	590	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-37-10	2016 06 04	20.1 - 20.3	190	< 0.01	-	0.048	< 0.005	0.055	0.062	***0.28***	0.0068	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-37-11	Duplicate	20.1 - 20.3	190	< 0.01	-	0.079	0.013	< 0.005	0.03	***0.18***	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	QA/QC RPD%				*	-	*	*	*	*	43	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
	BH16-37-12	2016 06 04	21.9 - 22.1	295	< 0.01	-	0.044	< 0.005	< 0.005	0.024	0.027	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-37-13	2016 06 04	23.9 - 24.1	35	< 0.01	-	< 0.02	< 0.005	0.011	0.056	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH16-38	BH16-38-01	2016 06 05	1.1 - 1.2	240	***0.066***	-	0.2	< 0.005	< 0.005	< 0.02	0.012	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-38-04	2016 06 05	7.5 - 7.6	150	< 0.01	-	< 0.02	< 0.005	< 0.005	< 0.02	< 0.01	< 0.004	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-38-10	2016 06 05	32.6 - 32.8	560	***0.017***	-	0.1	0.11	0.059	0.25	***0.89***	< 0.004	< 0.02	0.037	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
	BH16-38-11	2016 06 05	32.6 - 32.8	560	***0.15***	-	0.075	0.032	0.061	0.25	***0.91***	0.13	< 0.02	0.035	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.05	< 0.05	< 0.05	-	0.041	0.31
BH17-40	BH17-40-01	2017 06 09	26.5 - 26.8	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***1.0***	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-40-02	2017 06 09	29.0 - 29.1	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
BH17-41	BH17-41-01	2017 06 12	29.6 - 29.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	0.03	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-41-02	2017 06 12	32.6 - 32.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-43	BH17-43-02	2017 06 16	29.1 - 29.3	65	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
BH17-44	BH17-44-02	2017 06 17	28.7 - 28.8	350	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	***0.3***	***1.7***	< 0.04	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH17-45	BH17-45-02	2017 06 19	32.0 - 32.3	90	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***0.5***	< 0.04	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-45-03	2017 06 19	34.7 - 35.1	65	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.48***	***0.64***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-47	BH17-47-04	2017 06 15	5.4 - 5.6	0	< 0.005	0.006	0.013	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-47-06	2017 06 15	6.4 - 6.6	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-48	BH17-48-08	2017 06 15	5.4 - 5.6	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-48-09	2017 06 15	6.4 - 6.6	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-48-10	2017 06 15	7.4 - 7.6	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-49	BH17-49-09	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-50	BH17-50-02	2017 06 13	1.4 - 1.6	115	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-50-03	2017 06 13	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-50-05	2017 06 13	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-50-06	Duplicate	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-50-09	2017 06 13	7.5 - 7.6	810	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-51	BH17-51-01	2017 06 13	0.4 - 0.6	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-51-02	2017 06 13	1.4 - 1.6	420	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-51-06	2017 06 13	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-51-09	2017 06 13	7.5 - 7.6	0	***0.017***	0.014	0.037	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-52	BH17-52-07	2017 06 13	5.5 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-53	BH17-53-03	2017 06 13	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-53-04	Duplicate	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-53-07	2017 06 13	5.5 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-53-09	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-54	BH17-54-02	2017 06 13	1.4 - 1.6	-	0.005	0.006	0.010	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-54-04	2017 06 13	3.5 - 3.7	170	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-54-06	2017 06 13	5.5 - 5.6	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-54-08	2017 06 13	7.5 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-55	BH17-55-01	2017 06 13	0.4 - 0.6	80	0.012	0.011	0.020	0.005	< 0.005	< 0.02	< 0.02	0.008	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-55-04	2017 06 13	2.4 - 2.6	90	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-55-07	2017 06 13	5.0 - 5.2	0	< 0.005	< 0.005	0.011	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-55-11	2017 06 13	7.5 - 7.6	140	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
BH17-56	BH17-56-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-56-07	2017 06 14	5.5 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-56-08	Duplicate	5.5 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-56-09	2017 06 14	6.4 - 6.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-56-10	2017 06 14	7.5 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-57	BH17-57-05	2017 06 14	3.5 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-57-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-57-07	2017 06 14	5.3 - 5.5	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-58	BH17-58-05	2017 06 14	3.5 - 3.7	0	< 0.005	0.011	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-58-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.005	0.009	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-58-07	2017 06 14	5.3 - 5.5	0	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-59	BH17-59-05	2017 06 14	4.0 - 4.1	35	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-59-06	2017 06 14	4.9 - 5.0	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-60	BH17-60-07	2017 06 14	5.0 - 5.2	0	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-60-08	Duplicate	5.0 - 5.2	0	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-61	BH17-61-06	2017 06 14	4.4 - 4.6	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-61-08	2017 06 14	5.2 - 5.3	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-61-10	2017 06 14	6.7 - 6.9	490	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-61-11	2017 06 14	7.5 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-62	BH17-62-07	2017 06 14	5.0 - 5.2	0	***1.02***	3.09	4.79	< 0.05	< 0.05	< 0.2	***0.3***	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-62-08	2017 06 14	5.9 - 6.1	0	***1.26***	4.70	5.61	< 0.05	< 0.05	< 0.2	***0.4***	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-62-10	2017 06 14	7.5 - 7.8	0	***0.10***	1.75	< 0.05	< 0.05	< 0.05	< 0.2	***0.2***	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
BH17-63	BH17-63-07	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-64	BH17-64-06	2017 06 14	4.4 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-64-09	2017 06 14	5.9 - 6.1	0	0.007	0.008	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-64-11	2017 06 14	7.5 - 7.6	0	0.013	0.014	0.021	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-65	BH17-65-07	2017 06 15	4.4 - 4.6	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-65-11	2017 06 15	7.5 - 7.6	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
BH17-66	BH17-66-07	2017 06 15	4.4 - 4.6	60	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-66-09	2017 06 15	5.9 - 6.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-66-10	Duplicate	6.7 - 6.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-66-13	2017 06 15	7.5 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F3	LIF-17F3-01	2017 11 09	13.1 - 13.4	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F6	LIF-17F6-01	2018 01 29	25.5 - 25.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	***0.17***	< 0.004	< 0.01	0.02	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F6-02	2018 01 29	26.5 - 26.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F6-05	2018 01 29	28.7 - 29.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F6-06	Duplicate	28.7 - 29.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F6-10	2018 01 29	33.5 - 33.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F8	LIF-17F8-01	2017 11 08	20.6 - 21.0	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	0.04	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F9	LIF-17F9-01	2017 11 07	22.8 - 23.3	-	0.008	0.037	0.074	< 0.005	< 0.005	0.02	0.03	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F10	LIF-17F10-01	2017 11 09	22.8 - 23.1	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.55***	***0.90***	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F14	LIF-17F14-01	2017 11 10	22.4 - 22.9	-	< 0.005	1.28	2.47	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F15	LIF-17F15-01	2017 11 10	22.8 - 23.1	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	***0.31***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F17	LIF-17F17-05	2018 01 28	28.9 - 29.4	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F17-06	Duplicate	28.9 - 29.4	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F17-10	2018 01 28	33.1 - 33.5	0	< 0.005	< 0.005	0.009	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F17-11	2018 01 28	34.5 - 34.9	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F18	LIF-17F18-01	2018 01 27	23.9 - 24.2	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F18-03	2018 01 27	25.6 - 25.9	30	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.02	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F18-05	2018 01 27	27.7 - 28.2	95	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.36***	***0.22***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F18-06	Duplicate	27.7 - 28.2	95	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.35***	***0.22***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	3	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F18-08	2018 01 27	30.5 - 30.8	185	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12	***0.29***	< 0.004	< 0.01	0.02	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F18-10	2018 01 27	32.5 - 32.8	300	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.49***	***0.48***	< 0.004	< 0.01	0.04	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F18-11	2018 01 27	33.4 - 34.0	160	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12	***0.16***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F18-12	2018 01 27	34.7 - 35.3	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F19	LIF-17F19-03	2017 12 11	21.2 - 21.5	90	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.38***	***0.28***	< 0.004	< 0.01	0.03	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F19-04	Duplicate	21.2 - 21.5	90	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.21	***0.17***	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	58	49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F19-14	2017 12 11	34.1 - 34.3	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.09	***0.16***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F20	LIF-17F20-01	2017 10 26	27.1 - 27.7	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F23	LIF-17F23-02	2018 02 07	26.4 - 26.7	105	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F23-11	2018 02 07	32.5 - 32.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	***0.06***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F25	LIF-17F25-03	2017 11 28	25.6 - 25.9	210	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	***0.11***	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F25-04	Duplicate	25.6 - 25.9	210	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	0.03	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F25-11	2017 11 28	31.5 - 31.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F26	LIF-17F26-05	2017 12 10	25.0 - 25.1	115	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	***0.41***	***0.55***	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F26-13	2017 12 10	32.8 - 32.9	150	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F27	LIF-17F27-01	2017 12 09	20.1 - 20.4	35	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F27-02	Duplicate	20.1 - 20.4	35	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F27-05	2017 12 09	23.2 - 23.3	220	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	***0.3***	***0.5***	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F31	LIF-17F31-07	2017 11 25	29.4 - 29.7	160	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F32	LIF-17F32-03	2017 11 25	25.6 - 25.9	-	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***1.3***	< 0.04	< 0.1	0.2	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F33	LIF-17F33-04	2017 12 08	23.3 - 23.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F33-05	Duplicate	23.3 - 23.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F33-06	2017 12 08	24.8 - 25.0	65	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F36	LIF-17F36-07	2017 12 01	34.2 - 34.4	210	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.16	***0.40***	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F36-08	2017 12 01	35.7 - 36.0	500	< 0.005	0.103	0.097	< 0.005	< 0.005	0.20	***0.24***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F39	LIF-17F39-06	2017 12 03	34.3 - 34.4	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	***0.11***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F40	LIF-17F40-03	2017 12 04	34.3 - 34.4	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F41	LIF-17F41-06	2017 11 24	31.7 - 32.0	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F43	LIF-17F43-01	2017 10 25	10.1 - 10.7	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F46	LIF-17F46-01	2017 11 19	12.0 - 12.5	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 2 (Cont'd): Summary of Analytical Results for PAHs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
LIF-17F53	LIF-17F53-02	2018 02 01	21.6 - 21.9	210	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***0.8***	< 0.04	< 0.1	0.3	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F53-04	2018 02 01	23.3 - 23.6	230	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	***0.4***	***1.0***	< 0.04	< 0.1	0.3	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F53-05	Duplicate	23.3 - 23.6	230	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	***0.4***	***0.9***	< 0.04	< 0.1	0.3	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	0	11	*	*	0	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F53-08	2018 02 01	25.3 - 25.6	65	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***0.6***	< 0.04	< 0.1	0.1	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F54	LIF-17F54-02	2018 01 30	23.5 - 23.8	-	< 0.05[a]	1.62	< 0.05	< 0.05	< 0.05	***1.0***	***1.8***	< 0.04	< 0.1	0.6	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	LIF-17F54-04	2018 01 30	25.0 - 25.3	-	< 0.005	0.012	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F54-14	2018 01 31	33.2 - 33.5	55	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F54-15	2018 01 31	34.1 - 34.4	55	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
LIF-17F55	LIF-17F55-01	2018 02 02	19.2 - 19.5	155	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.1	0.1	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F55-03	2018 02 02	21.0 - 21.3	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F55-07	2018 02 02	24.1 - 24.4	30	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***0.4***	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	LIF-17F55-08	Duplicate	24.1 - 24.4	30	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***0.2***	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	LIF-17F55-10	2018 02 02	25.6 - 25.9	165	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	***0.5***	< 0.04	< 0.1	< 0.1	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B645259.
Associated AGAT file(s): 17C227642, 17F288247, 17N229462, 17N283894, 17N286004, 17N291226, 17N293453, 17V228326, 17V228340, 17V279218, 17V295812, 17Y227106, 17Y227125, 17Y229844, 18V309776, 18V310223, 18V311381.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 3: Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
TP-05	FS-05-1.0	2002 10 05	1.0 - 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP-35	FS-35-1.0	2002 10 05	1.0 - 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH24	BH24-1	2004 11 26	0.5 - 0.5	-	-	< 10	< 10	161	-	-	< 1	-	-	-	28	11	-	-	-	-	-	-	0.02	< 4	29	0.3	< 2	-	-	-	< 5	-	29	-	-
	GR7(BH24-1)	Duplicate	0.5 - 0.5	-	-	< 10	< 10	124	-	-	< 1	-	-	-	23	9	-	-	-	-	-	-	0.05	< 4	28	0.3	< 2	-	-	-	< 5	-	24	-	-
	QA/QC RPD%			-	-	*	*	26	-	-	*	-	-	-	20	20	-	-	-	-	-	-	*	*	4	*	*	-	-	-	*	-	19	-	-
BH29	BH29-1	2004 11 27	0.5 - 0.5	***8.6***	-	< 2	3.9	146	-	-	0.22	-	< 0.5	-	14.6	4.6	11	-	5.1	-	-	-	0.015	1.6	19.4	< 0.4	< 0.5	-	-	-	< 2	-	22.4	36.6	-
BH37	BH37-1	2004 11 29	0.6 - 0.6	-	-	< 10	< 10	139	-	-	< 1	-	-	-	31	9	-	-	-	-	-	-	0.02	< 4	32	0.3	< 2	-	-	-	< 5	-	29	-	-
BH42	BH42-1	2004 11 29	0.9 - 0.9	***8.3***	-	< 2	4.7	169	-	-	0.32	-	< 0.5	-	26	6.8	10.6	-	8.8	-	-	-	0.03	1.6	23.1	< 0.4	< 0.5	-	-	-	< 2	-	27.2	45	-
BH97	BH97-1	2005 03 17	0.3 - 0.3	-	-	< 10	< 10	188	-	-	< 1	-	-	-	29	10	-	-	-	-	-	-	0.07	< 4	31	0.4	< 2	-	-	-	< 5	-	29	-	-
	BH97-2	2005 03 17	1.5 - 1.5	-	-	< 10	< 10	91	-	-	< 1	-	-	-	17	6	-	-	-	-	-	-	0.03	< 4	23	0.2	< 2	-	-	-	< 5	-	18	-	-
SS4	SS4	2005 11 08	0.0 - 0.1	7.6	6,460	< 0.1	< 10	144	-	-	< 1	3	< 1	24,500	10	5	20	8,210	23	-	7,580	190	0.022	< 0.01	15	0.3	< 0.2	183	69	-	< 2	-	16	126	< 1
Pile 1	Pile 1	2005 12 09	0.0 - 0.1	***8.6***	518	< 10	< 30[a]	18.1	-	-	-	< 1	< 3	14,800	< 2	< 1	3	1,320	< 4	-	1,810	69.9	-	< 2	< 2	-	< 2	-	19	-	< 5	-	1	7	< 1
MR1	MR-1	2006 07 29	0.0 - 0.2	6.4	10,900	< 0.1	3.5	140	-	-	< 1	4	< 0.2	2,980	31	6	7	18,800	5.1	-	4,170	197	0.01	0.5	21	< 0.2	< 0.1	63	13	< 0.1	< 5	-	40	33	2
MR2	MR-2	2006 07 29	0.0 - 0.2	6.6	8,290	< 0.1	4.1	97	-	-	< 1	4	< 0.2	2,520	31	7	10	16,600	5.3	-	5,210	301	0.02	0.5	31	0.2	< 0.1	66	9	< 0.1	< 5	-	33	33	6
MR3	MR-3	2006 07 29	0.0 - 0.2	6.7	10,400	< 0.1	1.2	128	-	-	< 1	4	< 0.2	2,720	25	5	6	14,100	11.5	-	4,570	110	0.02	0.4	18	0.4	< 0.1	205	12	0.1	< 5	-	21	47	1
MR4	MR-4	2006 07 29	0.0 - 0.2	***5.7***	9,740	< 0.1	3.6	154	-	-	< 1	5	***23.1***	3,730	20	5	9	15,200	65.6	-	3,500	248	0.03	0.5	16	0.3	< 0.1	118	14	< 0.1	< 5	-	26	***294***	< 1
	GR2	Duplicate	0.0 - 0.2	***5.5***	10,700	< 0.1	3.6	169	-	-	< 1	5	***33***	4,210	22	6	10	16,100	87.5	-	3,760	259	0.03	0.6	17	0.3	0.1	147	16	< 0.1	< 5	-	28	***270***	< 1
	QA/QC RPD%			*	9	*	*	9	-	-	*	0	35	12	10	18	11	6	29	-	7	4	*	18	6	*	*	22	13	*	*	-	7	9	*
MR5	MR-5	2006 07 29	0.0 - 0.2	6.5	8,730	< 0.1	6.1	81	-	-	< 1	5	< 0.2	3,330	24	6	9	19,600	9.2	-	4,830	151	0.04	0.5	22	0.4	< 0.1	164	14	< 0.1	< 5	-	28	46	1
RES1	125-66.02-JLM-RES1-2	2006 07 29	0.6 - 0.6	***8.1***	7,690	< 0.1	5.5	119	-	-	< 1	5	0.3	10,700	23	7	15	16,400	10.4	-	5,680	329	0.05	0.8	24	0.3	< 0.1	99	27	< 0.1	< 5	-	26	52	3
RES2	125-66.02-JLM-RES2-1	2006 07 29	0.0 - 0.1	7.9	4,680	0.6	5.1	159	-	-	< 1	4	0.5	11,200	11	5	16	12,100	7	-	4,660	262	0.08	1.1	17	0.4	0.1	50	32	< 0.1	< 5	-	20	57	< 1
RES3	125-66.02-JLM-RES3-1	2006 07 29	0.0 - 0.1	***8.5***	6,580	< 0.1	5.3	139	-	-	< 1	5	0.4	34,900	19	7	14	14,900	9	-	8,380	428	0.06	0.8	24	0.5	< 0.1	144	77	< 0.1	< 5	-	26	54	1
RES4	125-66.02-JLM-RES4-1	2006 07 29	0.0 - 0.1	***8***	8,850	< 0.1	5.2	140	-	-	< 1	4	< 0.2	11,300	21	7	12	15,100	9.2	-	5,520	252	0.04	0.5	22	0.3	< 0.1	81	30	< 0.1	< 5	-	26	46	2
RES5	125-66.02-JLM-RES5-2	2006 07 29	0.0 - 0.2	***8.2***	8,420	< 0.1	5.6	160	-	-	< 1	5	0.3	11,500	22	7	15	15,800	20.1	-	5,000	237	0.05	0.7	21	0.4	< 0.1	170	27	< 0.1	< 5	-	28	53	1
	125-66.02-JLM-GR1	Duplicate	0.0 - 0.2	***8.2***	9,230	< 0.1	5.6	175	-	-	< 1	5	0.3	12,300	23	8	15	16,800	21.2	-	5,370	257	0.05	0.8	21	0.4	< 0.1	201	27	< 0.1	< 5	-	29	56	1
	QA/QC RPD%			*	9	*	0	9	-	-	*	0	0	7	4	13	0	6	5	-	7	8	0	13	0	*	*	17	0	*	*	-	4	6	*
RES6	125-66.02-JLM-RES6-1	2006 07 29	0.0 - 0.1	***8.3***	6,200	< 0.1	4.5	120	-	-	< 1	5	0.2	18,900	18	6	14	13,500	15.6	-	6,650	448	0.05	0.6	22	0.4	0.1	84	44	< 0.1	< 5	-	23	70	1
RES7	125-66.02-JLM-RES7-2	2006 07 29	0.0 - 0.2	***8.3***	6,300	2.5	4	127	-	-	< 1	5	0.2	17,900	17	5	12	12,300	***665***	-	6,480	247	0.05	0.6	18	0.3	< 0.1	101	37	< 0.1	< 5	-	22	46	1
RES8	125-66.02-JLM-RES8-1	2006 07 29	0.0 - 0.1	***8.2***	4,930	0.7	5.9	200	-	-	< 1	5	0.6	54,800	15	6	16	14,800	11.4	-	9,470	428	0.06	1.3	22	0.7	0.1	78	113	< 0.1	< 5	-	23	66	< 1
GARDEN1	Garden 1	2006 08 19	0.0 - 0.1	7.9	5,620	1.3	7.9	***813***	-	-	< 1	5	2	30,000	14	5	25	15,700	11.7	-	5,990	203	0.08	5	40	***3.5***	0.4	12	55	0.2	< 5	-	30	141	1
	Garden 1A	2009 10 18	0.0 - 0.1	7.8	5,760	< 10	< 10	***869***	-	-	< 1	17	2	33,500	16	6	30	18,000	13	-	6,620	-	0.1	7	***47***	< 2[a]	< 2	66	-	-	< 5	-	32	155	3
	FSGR3	Duplicate	0.0 - 0.1	8	5,710	< 10	< 10	***805***	-	-	< 1	16	2	36,000	16	6	30	17,800	14	-	6,660	-	0.09	7	***46***	< 2[a]	< 2	59	-	-	< 5	-	36	151	3
	QA/QC RPD%			*	1	*	*	8	-	-	*	6	0	7	0	0	0	1	7	-	1	-	11	0	2	*	*	11	-	-	*	-	12	3	*
	Garden 1B	2009 10 18	0.0 - 0.1	8	4,900	< 10	< 10	**365**	-	-	< 1	11	2	43,600	12	6	16	13,200	12	-	15,000	-	0.04	< 4	27	< 2[a]	< 2	72	-	-	< 5	-	25	121	2
GARDEN2	Garden 2	2006 08 19	0.0 - 0.1	7.7	8,210	< 0.1	3.3	230	-	-	< 1	4	0.8	9,970	21	7	11	16,600	10.4	-	4,170	242	0.02	0.4	21	***1.2***	0.1	18	35	< 0.1	< 5	-	24	75	4
RES9	Res 9-1	2009 10 18	0.0 - 0.1	***8.8***	2,930	< 0.1	2.9	92	-	-	< 1	< 1	< 0.2	21,100	8	3	9	8,540	5.5	-	4,560	184	0.02	0.5	11	0.3	< 0.1	52	59	< 0.1	< 5	-	13	31	< 1
RES10	Res 10-1	2009 10 18	0.0 - 0.1	***8.1***	2,900	0.6	2.9	104	-	-	< 1	1	0.2	20,300	8	3	11	8,670	7.4	-	4,140	200	0.03	0.5	11	0.4	< 0.1	50	60	< 0.1	< 5	-	12	42	< 1
RES11	Res 11-1	2009 10 18	0.0 - 0.1	***8.6***	3,660	< 0.1	2.8	89	-	-	< 1	< 1	< 0.2	21,400	9	3	13	10,100	5.2	-	4,920	167	0.03	0.4	12	0.3	< 0.1	61	64	< 0.1	< 5	-	13	33	< 1
BH127	BH127-1	2010 08 26	0.5 - 0.8	***8.17***	-	< 10	5.1	235	-	-	< 0.5	-	< 0.5	-	18.2	6.3	15.4	-	< 30	-	-	-	< 0.05	< 4	20.8	< 2.8[a]	< 2	-	-	-	< 5	-	21.5	66.8	-
	BH127-2	2010 08 26	1.1 - 1.4	6.78	-	< 10	**10.7**	276	-	-	0.71	-	< 0.5	-	34.6	11.4	15.1	-	< 30	-	-	-	< 0.05	< 4	32.6	< 2[a]	< 2	-	-	-	< 5	-	38.1	71.2	-
	GR2	Duplicate	1.1 - 1.4	6.64	-	< 10	**10.7**	279	-	-	0.74	-	< 0.5	-	34.6	11.4	17.3	-	< 30	-	-	-	< 0.05	< 4	35.1	< 2[a]	< 2	-	-	-	< 5	-	36.8	67.2	-
	QA/QC RPD%			2	-	*	0	1	-	-	4	-	*	-	0	0	14	-	*	-	-	-	*	*	7	*	*	-	-	-	*	-	3	6	-
BH128	BH128-1	2010 08 26	0.3 - 0.6	***8.61***	-	< 10	< 5	152	-	-	< 0.5	-	< 0.5	-	16.3	5.2	14.2	-	< 30	-	-	-	< 0.05	< 4	17.8	< 2[a]	< 2	-	-	-	< 5	-	20.1	57.6	-
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	100,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Standard is pH dependent.

TABLE 3 (Cont'd): Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
BH135	BH135-3	2010 08 27	2.7 - 3.1	***9.01***	-	< 10	< 5	116	-	-	< 0.5	-	< 0.5	-	13.7	4.3	12	-	< 30	-	-	-	0.095	< 4	16.5	< 2[a]	< 2	-	-	-	< 5	-	18.2	28.8	-
BH12-01	BH12-01-32-AD05	2012 10 14	25.5 - 25.8	***8.8***	-	0.34	4.1	226	-	-	0.25	0.2	0.13	-	24	5	11	-	4.1	-	-	-	0.01	0.82	18.7	< 0.1	0.2	-	-	< 0.05	0.25	-	28	27	-
	BH12-01-36-AD05	2012 10 14	28.5 - 28.8	***8.9***	-	0.31	4.3	178	-	-	0.21	0.2	0.25	-	47	3.7	12.5	-	3.2	-	-	-	0.02	1.95	12.8	< 0.1	0.36	-	-	< 0.05	0.29	-	22	25	-
BH12-02	BH12-02-27-AD05	2012 10 15	19.5 - 19.8	8	-	0.36	2.5	79.8	-	-	0.2	< 0.1	0.1	-	11	3.9	9	-	3.9	-	-	-	< 0.01	1.21	13.6	< 0.1	0.05	-	-	< 0.05	0.16	-	16	29	-
	BH12-02-28-AD05	Duplicate	19.5 - 19.8	***8.1***	-	0.41	3.2	92.9	-	-	0.24	< 0.1	0.13	-	13	4.7	11.2	-	4.5	-	-	-	0.01	1.48	15.6	< 0.1	0.07	-	-	< 0.05	0.18	-	21	35	-
	QA/QC RPD%			1	-	*	25	15	-	-	18	*	26	-	17	19	22	-	14	-	-	-	*	20	14	*	*	-	-	*	*	-	27	19	-
	BH12-02-30-AD05	2012 10 15	26.4 - 26.7	***8.2***	-	0.26	2.3	87.1	-	-	0.16	0.1	0.07	-	15	2.8	16.3	-	2.7	-	-	-	0.02	1.3	10.4	0.2	0.06	-	-	< 0.05	0.17	-	15	30	-
	BH12-02-31-AD05	Duplicate	26.4 - 26.7	***9.4***	-	0.32	2.6	91.6	-	-	0.2	0.6	0.07	-	16	3.2	17.4	-	3.3	-	-	-	0.01	1.12	10.7	0.1	0.07	-	-	< 0.05	0.23	-	17	35	-
	QA/QC RPD%			14	-	*	*	5	-	-	22	*	0	*	6	13	7	-	20	-	*	-	*	15	3	*	*	*	-	*	*	-	12	15	-
SS12-01	SS12-01-AD05	2012 10 20	0.2 - 0.5	6.8	-	0.24	2.2	178	-	-	0.44	0.6	0.15	-	24	5.7	10.8	-	10.3	-	-	-	0.02	0.37	20.8	***1.8***	0.13	-	-	0.11	0.54	-	25	82	-
SS12-02	SS12-02-AD05	2012 10 20	0.2 - 0.5	6.7	-	0.14	1.4	279	-	-	0.34	0.5	0.56	-	21	4.7	10.1	-	8.2	-	-	-	0.01	0.3	18.1	***2.8***	0.13	-	-	0.13	0.45	-	19	84	-
SS12-03	SS12-03-AD05	2012 10 20	0.2 - 0.5	6.6	-	0.13	1.4	252	-	-	0.36	0.5	0.67	-	20	4.4	11.6	-	7.7	-	-	-	0.02	0.27	17.8	***3.1***	0.14	-	-	0.14	0.42	-	18	80	-
SS12-04	SS12-04-AD05	2012 10 20	0.2 - 0.5	6.8	-	0.37	5.3	139	-	-	0.4	0.2	0.56	-	20	8.4	9.4	-	8.3	-	-	-	< 0.01	0.73	17.5	0.5	0.08	-	-	< 0.05	0.4	-	30	121	-
SS12-05	SS12-05-AD05	2012 10 20	0.2 - 0.5	***5.5***	-	0.46	6.2	147	-	-	0.42	< 0.1	0.52	-	22	8.3	8.4	-	8.4	-	-	-	< 0.01	0.89	20.4	0.4	< 0.05	-	-	0.05	0.43	-	32	104	-
SS12-06	SS12-06-AD05	2012 10 20	0.2 - 0.5	7	-	0.16	1.5	261	-	-	0.39	0.2	0.57	-	22	4.4	11.3	-	10.6	-	-	-	0.02	0.26	15.5	***6.1***	0.09	-	-	0.1	0.5	-	21	78	-
SS12-07	SS12-07-AD05	2012 10 20	0.2 - 0.5	6.6	-	0.27	1.8	192	-	-	0.47	0.5	0.48	-	25	6.6	12.7	-	10.1	-	-	-	0.02	0.29	23.7	***2.2***	0.11	-	-	0.07	0.41	-	24	77	-
SS12-08	SS12-08-AD05	2012 10 20	0.2 - 0.5	6.5	-	0.45	5.3	308	-	-	0.61	0.3	0.25	-	27	8.3	15.6	-	10.8	-	-	-	0.02	0.5	29.8	***1.2***	0.18	-	-	0.07	0.55	-	33	69	-
SS12-09	SS12-09-AD05	2012 10 20	0.2 - 0.5	6.7	-	0.28	5.1	274	-	-	0.39	0.1	0.34	-	22	7.4	10.4	-	27.5	-	-	-	0.03	0.6	17.3	0.3	0.11	-	-	0.09	1.88	-	33	106	-
SS12-10	SS12-10-AD05	2012 10 20	0.2 - 0.5	***5.7***	-	0.27	7.3	269	-	-	0.56	< 0.1	0.05	-	26	7.1	10.1	-	10.4	-	-	-	0.03	0.45	23.6	0.4	0.08	-	-	0.09	1	-	36	56	-
BH13-03	BH13-03-23-AD05	2013 03 17	17.9 - 18.1	***8.6***	-	0.5	2.4	25.1	-	-	< 0.5	-	< 0.5	-	3.6	2.3	6.2	-	3	-	-	-	< 0.5	< 0.5	7.6	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	4.4	19	-
	BH13-03-25-AD05	2013 03 17	19.5 - 19.8	***8.5***	-	< 0.5	2.3	63.3	-	-	< 0.5	-	< 0.5	-	5.8	2.7	7.4	-	3.7	-	-	-	< 0.5	0.6	8.7	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	7.7	20	-
	BH13-03-33-AD05	2013 03 17	25.7 - 25.9	***8.6***	-	< 0.5	1.9	35.5	-	-	< 0.5	-	< 0.5	-	9.5	3.7	7.9	-	3.9	-	-	-	< 0.5	0.6	12.6	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	8.6	22	-
	BH13-03-A-AD05	Duplicate	25.7 - 25.9	***8.3***	-	< 0.5	2.1	35.1	-	-	< 0.5	-	< 0.5	-	9.8	3.6	7.9	-	3.6	-	-	-	< 0.5	0.6	12.4	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	8.4	21	-
	QA/QC RPD%			*	-	*	*	1	-	-	*	-	*	-	3	3	0	-	8	-	-	-	*	*	2	*	*	-	-	*	*	-	2	5	-
	BH13-03-34-AD05	2013 03 17	26.2 - 26.5	***8.7***	-	< 0.5	1.8	46	-	-	< 0.5	-	< 0.5	-	9.9	3.2	7.8	-	4.2	-	-	-	< 0.5	< 0.5	11.7	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	8.3	22	-
	BH13-03-35-AD05	2013 03 17	26.8 - 27.0	***8.4***	-	< 0.5	1.6	33.7	-	-	< 0.5	-	< 0.5	-	6.8	2.6	7.7	-	3.2	-	-	-	< 0.5	< 0.5	9.4	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	6.1	18	-
	BH13-03-36-AD05	2013 03 17	28.1 - 28.4	***8.7***	-	< 0.5	1.2	31.2	-	-	< 0.5	-	< 0.5	-	6.7	2.5	6.6	-	3	-	-	-	< 0.5	0.5	10.7	< 0.5	< 0.5	-	-	< 0.5	< 0.5	-	6.5	18	-
TP13-02	TP13-02-2	2013 08 22	1.7 - 2.0	***8.68***	6,790	0.61	5.96	135	-	-	< 0.8	-	0.285	8,050	20.2	7.34	15.1	17,100	59.3	9.5	5,100	312	0.066	0.69	24.7	< 1	0.054	141	28.2	0.082	0.32	0.599	25.7	52.3	2.52
TP13-03	TP13-03-1	2013 08 22	0.5 - 1.0	***8.39***	6,790	0.55	6.68	120	-	-	< 0.8	-	0.246	5,240	26.2	7.38	12.9	19,000	22.8	8.6	5,220	305	< 0.1	0.62	25.6	< 1	< 0.1	103	20.9	0.074	0.37	1.31	33.2	49.7	2.58
	TP13-03-2	2013 08 22	1.0 - 2.2	***8.35***	7,300	0.48	5.62	125	-	-	< 0.8	-	0.254	9,490	22.7	6.57	12	16,200	11.7	8.2	5,280	313	< 0.1	0.64	20.6	< 1	0.052	< 200	31.3	0.068	0.38	0.655	27.1	52.7	1.76
TP13-04	TP13-04-1	2013 08 22	0.5 - 0.8	***8.33***	6,760	0.73	5.52	111	-	-	< 0.8	-	0.29	3,170	23.2	6.85	13.6	18,300	10.5	8.3	4,810	278	< 0.1	0.54	26.2	< 1	< 0.1	123	15.4	0.068	0.37	1.28	30.9	48.4	2.92
TP13-05	TP13-05-1	2013 08 22	0.5 - 0.8	***8.18***	6,550	0.48	5.37	103	-	-	< 0.8	-	0.236	4,110	20.7	6.45	12.3	15,900	7.33	8.2	4,190	268	< 0.1	0.58	22.6	< 1	< 0.1	< 200	17.2	0.07	0.32	0.616	27.1	46.4	2.64
	TP13-05-2	2013 08 22	1.5 - 1.8	***8.35***	6,320	0.48	4.99	106	-	-	< 0.8	-	0.245	6,360	19.6	6.17	11.7	14,800	6.95	7.9	4,810	257	< 0.1	0.55	22.4	< 1	< 0.1	< 200	23	0.065	0.29	0.56	25.7	44.4	2.36
TP13-06	TP13-06-1	2013 08 22	0.3 - 0.8	8	7,600	0.58	5.62	131	-	-	< 0.8	-	0.463	13,600	21.9	7.52	10.7	18,200	19.5	9.2	5,130	332	< 0.1	0.82	22.6	< 1	0.068	< 200	40.5	0.065	0.32	0.548	29.5	68.5	1.98
	TP13-06-2	2013 08 22	1.0 - 1.5	***8.47***	6,080	0.4	4.69	120	-	-	< 0.8	-	0.264	7,720	19	6.36	12.3	15,500	6.42	6.1	6,040	308	< 0.1	0.45	23.1	< 1	0.077	< 200	24.9	0.07	0.22	0.541	27.3	39.5	2.57
TP13-07	TP13-07-1	2013 08 22	0.1 - 0.4	7.16	10,900	0.28	4.86	137	-	-	< 0.8	-	0.153	2,520	20.4	5.36	6.81	16,600	9.23	11.7	3,050	214	< 0.1	0.53	15.5	< 1	0.058	130	12.4	0.086	0.53	0.467	33.7	46	< 1
TP13-08	TP13-08-1	2013 08 22	0.5 - 0.9	7.96	9,820	0.62	7.75	159	-	-	0.58	-	0.301	6,620	27.6	8.41	14.7	20,700	9.06	11.7	4,720	325	< 0.1	0.78	27.4	< 1	0.06	< 200	26	0.095	0.48	0.942	34.7	55.1	5.54
TP13-09	TP13-09-1	2013 08 22	0.5 - 0.8	***8.06***	7,640	0.5	5.37	102	-	-	0.42	-	0.254	3,310	30.7	7.78	8.3	21,100	6.93	9.5	4,120	397	< 0.1	0.68	21.3	< 1	< 0.1	< 200	14.7	0.057	0.37	0.627	38.2	62.2	3.27
	TP13-09-101	Duplicate	0.5 - 0.8	7.88	7,910	0.51	6.07	114	-	-	< 0.8	-	0.235	3,550	26.3	8.65	9.21	19,000	8.61	9.1	3,850	475	< 0.1	0.71	19.7	< 1	< 0.1	< 200	16	0.06	0.43	0.589	33	57.4	2.36
	QA/QC RPD%			*	3	2	12	11	-	-	*	-	8	7	15	11	10	10	22	*	7	18	*	4	8	*	*	*	8	*	*	6	15	8	*
TP13-10	TP13-10-1	2013 08 22	0.5 - 0.8	7.56	10,400	0.24	5.32	149	-	-	< 0.8	-	0.096	2,540	23.1	5.32	6.34	18,200	10.9	13.8	3,720	192	< 0.1	0.69	15	< 1	< 0.1	< 200	15.3	0.08	0.49	0.574	32.7	51.9	1.55
	TP13-10-2	2013 08 22	1.0 - 1.3	7.75	6,830	0.39	5.34	113	-	-	< 0.8	-	0.289	4,170	24.5	6.8	13.8	15,300	6.01	6.4	5,250	381	< 0.1	0.49	26.7	< 1	0.056	114	18	0.073	0.23	0.614	28.8	43.1	2.09
TP13-11	TP13-11-1	2013 08 22	0.0 - 0.4	***8.1***	9,990	0.4	6.04	150	-	-	< 0.8	-	0.16	2,550	21.4	8.16	8.85	18,000	14.4	12.3	3,340	410	< 0.1	0.72	17.3	< 1	0.066	366	12.8	0.079	0.5	0.534	33.4	60.6	1.04
	TP13-11-102	Duplicate	0.0 - 0.4	***8.14***	9,230	0.57	6.92	124	-	-	0.46	-	0.23	2,550	25.1	8.5	12.6	18,700	9.24	11.2	3,900	320	< 0.1	0.73	25.6	< 1	< 0.1	526	13.9	0.079	0.4	0.675	30.9	57.1	3.08
	QA/QC RPD%			*	8	*	14	19	-	-	*	-	36	0	16	4	35	4	44	*	15	25	*	1	39	*	*	36	8	*	*	23	8	6	*
	TP13-11-2	2013 08 22	1.0 - 1.3	***8.14***	6,880	0.68	5.6	161	-	-	< 0.8	-	0.297	14,400	22.3	5.98	12.4	15,200	35.2	8.6	4,270	260	< 0.1	0.62	18	< 1	0.082	< 200	48.4	0.071	0.54	0.537	23.8	200	0.78
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	150,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Standard is pH dependent.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 3 (Cont'd): Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
TP13-12	TP13-12-1	2013 08 22	0.3 - 0.6	***8.75***	7,020	0.59	6.38	109	-	-	< 0.8	-	0.276	2,650	22.5	7.37	12.8	16,800	7.27	10.1	4,290	315	< 0.1	0.67	25.3	< 1	< 0.1	485	14.6	0.088	0.33	0.755	26.3	53	3.22
	TP13-12-2	2013 08 22	1.0 - 1.3	***8.39***	7,900	0.57	6.29	154	-	-	0.41	-	0.302	5,330	23.2	7.23	15.6	16,800	8.11	9.7	4,450	315	< 0.1	0.7	23.9	< 1	0.056	230	23.5	0.103	0.41	0.612	29.6	53.6	3.35
TP13-13	TP13-13-1	2013 08 22	0.4 - 0.7	***9.47***	6,100	0.65	5.85	125	-	-	0.41	-	0.349	16,000	20.8	7.13	16.2	16,400	6.42	10	7,000	298	< 0.1	0.78	26.7	< 1	0.089	376	49.2	0.088	0.2	0.623	26	57.8	3.1
	TP13-13-2	2013 08 22	1.6 - 1.9	***9.39***	5,000	0.39	4.28	145	-	-	< 0.8	-	0.253	16,000	15.4	5.55	12.5	13,300	5.41	6.9	5,930	237	0.05	0.54	20	< 1	0.072	282	40.7	0.072	< 0.2	0.446	22.5	48.3	2.39
TP13-14	TP13-14-1	2013 08 22	0.3 - 0.6	7.6	8,790	0.58	6.56	205	-	-	0.52	-	0.405	8,960	23.7	7.13	16.9	17,700	29.9	12.1	4,240	297	< 0.1	0.58	23	< 1	0.073	430	32.8	0.08	0.44	0.526	29.9	91.4	1.06
	TP13-14-2	2013 08 22	1.0 - 1.3	6.32	8,490	0.43	4.97	186	-	-	< 0.8	-	0.384	5,110	20.5	6.03	10.9	15,600	15.9	10.2	3,130	347	< 0.1	0.62	17.8	< 1	0.073	283	22	0.073	0.36	0.475	29.7	85.6	< 1
TP13-15	TP13-15-1	2013 08 22	0.0 - 0.3	7.28	10,200	0.66	7.49	168	-	-	0.74	-	0.372	2,430	30.5	9.77	14.2	21,600	9.07	13.1	3,840	337	< 0.1	0.98	29.7	< 1	0.057	160	13.1	0.101	0.37	1.01	34.5	73	8.85
	TP13-15-2	2013 08 22	0.4 - 0.7	7.58	5,570	0.5	5.17	93.2	-	-	< 0.8	-	0.333	2,250	24.7	6.62	12.7	16,500	6.46	7.5	4,110	288	< 0.1	0.91	28.5	< 1	< 0.1	116	14.5	0.061	< 0.2	0.595	30.4	45.6	2.4
TP13-16	TP13-16-1	2013 08 22	0.2 - 0.5	***8.66***	4,830	0.38	4	82.8	-	-	< 0.8	-	0.273	15,700	16.4	5.56	12.8	12,000	5.83	6.6	5,500	239	< 0.1	0.67	21.8	< 1	0.06	< 200	60.5	0.069	0.22	0.505	23.7	40.9	2.47
	TP13-16-2	2013 08 22	1.0 - 1.3	***8.87***	4,460	0.37	3.79	84.3	-	-	< 0.8	-	0.232	14,300	15.3	4.84	9.26	11,600	4.8	6.3	5,250	203	< 0.1	0.4	16.7	< 1	0.081	< 200	53.7	0.057	0.19	0.397	20	37.9	2.22
TP13-18	TP13-18-1	2013 08 23	0.0 - 0.5	***8.38***	8,930	0.51	7.98	179	-	-	0.57	-	0.284	7,640	28.7	8.81	19	20,500	9.83	13	5,030	296	< 0.1	0.66	32.5	< 1	0.091	131	29.5	0.093	0.3	0.746	34.9	60.8	3.72
TP13-19	TP13-19-1	2013 08 23	0.0 - 0.5	***8.84***	5,360	0.65	5.01	118	-	-	< 0.8	-	0.365	15,800	20.1	6.28	13.1	14,300	6.8	9.3	5,750	257	< 0.1	0.57	24	< 1	0.19	< 200	53.7	0.058	0.54	0.516	23.1	53.5	2.97
TP13-20	TP13-20-1	2013 08 23	0.0 - 0.5	***8.81***	4,430	0.55	4.97	131	-	-	< 0.8	-	0.381	46,300	12.8	4.71	11.7	13,200	10.2	7.4	11,800	254	< 0.1	0.8	14.7	< 1	0.098	< 200	81.8	0.069	< 0.2	0.533	20.3	51.1	2.22
TP13-21	TP13-21-1	2013 08 23	0.0 - 0.5	***8.7***	6,330	0.58	6.14	101	-	-	< 0.8	-	0.243	2,200	22.3	6.97	13.6	16,800	6.92	9.3	4,050	281	< 0.1	0.66	27.4	< 1	< 0.1	260	13.1	0.068	0.16	0.649	25.8	52.6	3.04
TP13-22	TP13-22-1	2013 08 23	0.1 - 0.5	7.91	8,720	0.43	5.9	132	-	-	< 0.8	-	0.355	2,770	22.8	7.54	9.51	18,700	8.11	11	3,570	303	< 0.1	0.69	21.8	< 1	0.052	< 200	14.3	0.085	0.39	0.69	31.3	75.5	1.87
TP13-23	TP13-23-1	2013 08 23	0.0 - 0.5	***8.39***	7,410	0.63	6.84	105	-	-	< 0.8	-	0.207	3,070	23.6	7.7	15.5	17,800	8.23	10.2	4,250	327	< 0.1	0.75	26.2	< 1	< 0.1	120	15.7	0.109	0.32	0.797	27.6	68.4	3.03
	TP13-23-104	Duplicate	0.0 - 0.5	***8.35***	7,190	0.71	6.89	98.4	-	-	< 0.8	-	0.246	2,730	22.8	7.53	15	17,400	8.47	10.8	4,170	319	< 0.1	0.79	27	< 1	0.067	122	14.2	0.098	0.36	0.762	26.5	53.5	3.26
	QA/QC RPD%			*	3	12	1	6	-	-	*	-	17	12	3	2	3	2	3	*	2	2	*	5	3	*	*	2	10	*	*	4	4	24	*
BH13-04	BH13-04-21-AD05	2013 09 22	21.8 - 22.1	***8.79***	5,220	0.22	5.08	87.8	-	-	< 0.8	-	0.227	16,300	11.9	4.79	11	11,300	6.31	5.2	7,820	201	< 0.1	0.4	17.3	< 1	0.056	142	54	0.057	0.23	0.329	19.2	26.6	2.63
	BH13-04-22-AD05	2013 09 22	22.6 - 22.9	***9.12***	5,500	0.22	3.95	202	-	-	< 0.8	-	0.19	28,200	10	3.33	10.5	11,100	3.92	6	5,650	200	< 0.1	0.84	10.3	< 1	0.071	199	68	< 0.1	0.23	0.322	19.3	21.8	2.97
	BH13-04-30-AD05	2013 09 23	31.5 - 31.8	***8.85***	3,510	0.24	2.42	54.9	-	-	< 0.8	-	0.111	16,100	8.9	3.02	7.53	7,200	3.1	< 10	4,740	122	< 0.1	0.27	10.3	< 1	0.065	< 200	42.4	< 0.1	0.12	0.281	16	19.9	2.08
BH13-05	BH13-05-02-AD05	2013 09 23	1.1 - 1.4	***8.83***	5,640	0.29	4.91	105	-	-	< 0.8	-	0.249	43,000	15.2	4.94	12.9	13,600	5.44	< 10	8,470	314	< 0.1	0.63	19.4	< 1	0.057	140	114	0.06	0.17	0.4	22.6	36.6	2.7
	BH13-05-A	Duplicate	1.1 - 1.4	***8.72***	5,810	0.3	3.96	106	-	-	< 0.8	-	0.257	53,900	17.8	4.9	10.6	12,800	5.15	6.3	11,700	278	< 0.1	0.49	17.6	< 1	0.083	< 200	134	0.053	0.14	0.542	22.3	36.1	2.56
	QA/QC RPD%			1	3	*	21	1	-	-	*	-	3	22	16	1	20	6	5	*	32	12	*	*	10	*	*	*	16	*	*	*	1	1	*
	BH13-05-14-AD05	2013 09 23	11.6 - 11.9	***8.72***	4,090	0.35	5.17	108	-	-	< 0.8	-	0.276	36,100	15.8	5.37	8.85	11,400	5.67	< 10	8,250	329	< 0.1	1.04	29.1	< 1	0.054	< 200	91.7	< 0.1	0.1	0.333	16.1	27.6	2.14
	BH13-05-27-AD05	2013 09 24	21.9 - 22.2	***8.35***	5,210	0.29	4.75	49.3	-	-	< 0.8	-	0.233	18,900	14.9	4.14	8.96	14,800	3.78	6.5	6,200	156	< 0.1	0.44	17	< 1	0.055	131	58.6	< 0.1	0.16	0.704	21.4	33.9	2.78
	BH13-05-28-AD05	2013 09 24	22.6 - 22.9	***8.25***	5,430	0.36	5.45	54.4	-	-	< 0.8	-	0.257	15,000	13.4	3.75	9.88	15,200	4.11	6.1	6,730	173	< 0.1	0.52	15.2	< 1	0.067	139	43.9	< 0.1	0.16	0.869	20.6	32.7	2.89
	BH13-05-29-AD05	2013 09 24	23.0 - 23.3	***8.79***	8,320	0.33	6.32	173	-	-	< 0.8	-	0.29	24,700	21.7	5.7	15.1	15,800	6.69	10.9	9,050	260	< 0.1	0.46	24.3	< 1	0.087	185	76.4	0.103	0.34	0.524	26.3	49.7	4.59
	BH13-05-30-AD05	2013 09 24	23.7 - 24.0	***8.72***	5,290	0.29	***12.4***	82	-	-	< 0.8	-	0.364	14,000	14.2	3.99	7.67	17,300	2.97	< 10	5,770	204	< 0.1	0.61	19.3	< 1	< 0.1	129	40.9	< 0.1	0.11	0.33	21.7	28.1	2.51
	BH13-05-31-AD05	2013 09 24	24.9 - 25.2	***8.7***	9,000	0.39	6.01	166	-	-	< 0.8	-	0.308	26,700	24.1	6.47	16.2	17,300	6.37	11.4	10,400	278	< 0.1	0.43	25.3	< 1	0.089	227	79.4	0.089	0.34	0.54	27.9	46.3	4.95
BH13-06	BH13-06-31-AD05	2013 09 25	31.7 - 32.0	***8.68***	5,370	0.28	3.37	89.6	-	-	< 0.8	-	0.367	30,500	13.9	4.25	9.88	11,100	4.55	< 10	8,860	146	< 0.1	0.65	16	< 1	0.058	135	76.2	< 0.1	0.14	0.581	25.6	26.9	2.9
	BH13-06-B	Duplicate	31.7 - 32.0	***8.72***	5,870	0.25	2.87	101	-	-	< 0.8	-	0.202	37,100	11.6	3.69	10.2	10,100	4.09	< 10	9,960	138	< 0.1	0.55	13.2	< 1	0.061	159	89.8	< 0.1	0.1	0.803	20.6	24.8	2.89
	QA/QC RPD%			0	9	*	16	12	-	-	*	-	58	20	18	14	3	9	11	*	12	6	*	*	19	*	*	16	16	*	*	32	22	8	*
	BH13-06-32-AD05	2013 09 25	32.3 - 32.6	***8.6***	5,990	0.2	3.06	53.4	-	-	< 0.8	-	0.159	27,400	12.1	4.31	9.73	11,000	3.23	< 10	8,450	171	< 0.1	0.37	16.1	< 1	0.054	168	69	< 0.1	0.15	0.465	23	23.9	2.47
BH13-07	BH13-07-01-AD05	2013 09 25	0.3 - 0.6	***8.55***	6,120	0.91	6.6	122	-	-	< 0.8	-	0.32	23,800	13.5	5.12	13.2	13,800	13.5	7.3	6,320	162	< 0.1	0.71	18.8	< 1	0.067	124	57.6	0.073	0.26	0.497	20.8	43.8	3.62
	BH13-07-02-AD05	2013 09 25	1.3 - 1.6	***8.22***	10,700	0.63	7.35	102	-	-	< 0.8	-	0.344	3,010	24.2	8.71	11.9	24,300	9.64	12.2	4,500	259	< 0.1	1.06	28	< 1	< 0.1	347	16.8	0.095	0.5	0.616	30.3	68.8	5.08
	BH13-07-21-AD05	2013 09 26	17.6 - 17.9	***8.67***	7,120	0.55	5.18	243	-	-	< 0.8	-	0.391	24,000	15	6.08	14.6	15,600	7.28	9.5	7,670	272	0.052	0.63	20.5	< 1	0.143	121	71.2	0.108	0.28	0.579	22.6	56.5	4.61
	BH13-07-22-AD05	2013 09 26	18.7 - 19.0	***8.97***	3,680	0.32	4.65	62.8	-	-	< 0.8	-	0.173	15,600	6.8	2.93	7.84	8,670	4.18	< 10	4,320	111	< 0.1	0.59	11	< 1	0.051	< 200	47.4	< 0.1	< 0.2	0.521	14.7	28	2.1
BH14-09	BH14-09-02-AD05	2014 02 15	1.4 - 1.4	***8.72***	6,140	0.5	4.71	111	-	-	0.4	-	0.395	2,420	***74.5***	6.89	17	16,600	6.28	9.6	4,270	306	< 0.1	0.83	29.8	< 1	0.067	364	13.3	0.082	0.35	0.63	24.1	47.5	8.32
	BH14-09-41-AD05	2014 02 17	31.2 - 31.2	***9.01***	3,650	0.28	2.49	110	-	-	< 0.8	-	0.145	18,900	14.2	3.4	24.7	8,900	3.81	5.4	4,550	160	< 0.1	2.52	11.7	< 1	0.064	< 200	53.4	< 0.1	0.13	0.322	15.2	29.3	2.48
	BH14-09-40-AD05	2014 02 17	32.3 - 32.3	***8.92***	3,840	0.36	3.92	84.8	-	-	< 0.8	-	0.167	20,400	17.1	3.84	10.2	11,200	4.47	< 10	5,950	163	< 0.1	1.89	11.6	< 1	0.08	105	58	0.055	0.16	0.389	17	29.5	3.13
BH14-10	BH14-10-33-AD05	2014 02 19	19.8 - 19.8	***9.07***	4,320	0.25	3.24	81.5	-	-	< 0.8	-	0.136	18,500	11.8	4.38	8.67	9,960	4.68	6.6	5,170	168	< 0.1	0.73	12.2	< 1	0.057	104	61	< 0.1	0.19	0.369	15.2	28.5	2.07
	BH14-10-42-AD05	2014 02 20	31.9 - 31.9	***8.72***	5,540	0.43	4.03	88	-	-	< 0.8	-	0.178	17,800	21.7	6.53	15.3	13,000	5.91	6.5	7,100	202	< 0.1	2.24	21.8	< 1	0.058	195	48.8	0.07	0.21	0.671	27.3	32.8	3.62
	BH14-10-44-AD05	2014 02 20	33.1 - 33.1	***8.72***	5,130	0.35	3.12	81.3	-	-	< 0.8	-	0.153	17,000	21.5	5.41	18.1	12,100	4.83	5.3	5,550	166	< 0.1	2.03	20.2	< 1	0.064	153	58.6	0.056	0.41	0.486	23.4	29.6	3.32
BH14-11	BH14-11-02-AD05	2014 02 21	1.4 - 1.4	***8.1***	7,760	0.55	6.58	149	-	-	0.47	-	0.171	2,600	23.6	7.58	14.2	17,300	7.85	10.8	3,480	330	< 0.1	0.77	27	< 1	< 0.1	231	14	0.077	0.35	0.711	26.3	53.6	2.78
	BH14-11-02A-AD05	Duplicate	1.4 - 1.4	***8.18***	8,630	0.61	7.23	160	-	-	0.48	-	0.179	2,510	25.5	7.95	15.6	18,500	8.14	11	3,570	329	< 0.1	0.98	27.8	< 1	< 0.1	234	14.7	0.094	0.38	0.777	29	56.5	3
	QA/QC RPD%			1	11	*	9	7	-	-	2	-	5	4	8	5	9	7	4	*	3	0	*	*	3	*	*	1	5	*	*	9	10	5	*
	BH14-11-33-AD05	2014 02 22	21.3 - 21.3	***8.03***	4,530	1.58	***38.5***	***1,680***	-	-	0.53	-	9.71	31,000	20.5	***227***	***78.5***	51,500	6.68	6.4	5,720	**24,700**	0.212	***24.8***	***273***	< 1	0.151	771	121	***5.37***	0.26	0.748	45.8	***212***	7.41
	BH14-11-47-AD05	2014 02 23	30.5 - 30.5	***8.93***	4,060	0.29	2.75	155	-	-	< 0.8	-	0.195	15,100	16.4	3.39	10.7	10,100	5.02	5.8	4,410	133	< 0.1	1.17	14.5	< 1	0.056	103	53.9	0.053	0.18	0.433	18.8	30.1	3.13
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	150,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] Standard is pH dependent.

TABLE 3 (Cont'd): Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
BH14-13	BH14-13-01-AD05	2014 02 27	1.1 - 1.1	6.73	5,800	0.35	3.91	127	-	-	< 0.8	-	0.196	22,900	16.2	6.56	33.9	13,500	11.1	5.6	7,770	358	< 0.1	3.85	17.9	< 1	0.076	157	89	0.074	0.29	0.293	23.2	83.6	1.46
	BH14-13-16-AD05	2014 02 27	3.4 - 3.4	***8.49***	21,200	0.34	7.02	213	-	-	1.14	-	0.649	20,200	45.6	14	34.4	26,900	13.9	31.9	19,100	475	< 0.1	1.18	41.5	0.62	0.129	682	66.7	0.363	0.97	1.78	64.4	91.8	11.3
	BH14-13-17-AD05	2014 02 27	11.6 - 11.6	***8.77***	6,790	0.63	6.34	74.4	-	-	0.66	-	0.654	91,400	13.5	9.7	21.7	24,500	15	10.7	6,510	431	< 0.1	1.86	19.8	< 1	0.095	< 200	238	0.148	0.15	0.585	20	78.2	4.53
	BH14-13-25-AD05	2014 02 27	18.1 - 18.1	***8.68***	7,420	0.6	6.49	123	-	-	0.57	-	0.637	77,200	13.1	6.62	20.2	20,900	14.6	11.7	8,120	567	0.07	1.51	16.2	< 1	0.099	< 200	220	0.131	0.12	0.555	19	74.7	3.12
	BH14-13-25A-AD05	Duplicate	18.1 - 18.1	***8.71***	6,670	0.61	6.75	121	-	-	0.6	-	0.467	69,600	13	7.02	19.9	20,500	14.4	10.6	8,330	610	0.174	1.74	17.1	0.54	0.076	< 200	208	0.166	0.13	0.496	21	78	2.83
	QA/QC RPD%			0	11	*	4	2	-	-	5	-	31	10	1	6	1	2	1	*	3	7	85	14	5	*	*	*	6	*	*	*	10	4	*
	BH14-13-30-AD05	2014 02 28	22.1 - 22.1	***8.72***	6,540	0.53	5.8	114	-	-	0.53	-	0.433	73,100	12.3	6.68	18.4	19,100	12.1	10.9	7,330	305	0.069	1.28	15.6	***1.35***	0.082	< 200	202	0.072	0.15	0.533	20	65.5	2.93
	BH14-13-30A-AD05	Duplicate	22.1 - 22.1	***8.89***	7,060	0.69	6.03	112	-	-	0.54	-	0.516	88,100	13.3	7.21	17.8	22,400	13.3	10.8	7,030	340	0.074	1.64	16.6	0.67	0.09	< 200	239	0.236	0.17	0.563	22.1	69.9	4.15
	QA/QC RPD%			2	8	*	4	2	-	-	2	-	17	19	8	8	3	16	9	*	4	11	7	25	6	67	*	*	17	*	*	5	10	6	*
BH14-14	BH14-14-01-AD05	2014 02 27	0.2 - 0.2	***8.56***	6,040	0.76	6.58	234	-	-	< 0.8	-	0.547	36,400	17.1	6.48	18.9	14,600	10.2	8.1	9,130	311	< 0.1	1.64	20.3	< 1	0.114	117	110	0.095	0.3	0.591	24	71.9	2.1
	BH14-14-03-AD05	2014 02 27	1.1 - 1.1	***8.2***	9,440	0.52	4.72	81.1	-	-	0.49	-	0.19	2,870	25.2	6.73	12	20,200	9.61	20.1	5,130	132	< 0.1	0.69	27.3	< 1	0.064	145	18.5	0.119	0.41	0.591	29.1	53.6	2.27
	BH14-14-05-AD05	2014 02 27	2.0 - 2.0	***8.09***	6,800	0.57	6.14	76.8	-	-	< 0.8	-	0.237	7,480	21.1	6.23	14.9	16,100	7.52	11.4	8,880	154	< 0.1	0.71	24.5	< 1	0.116	177	22.2	0.079	0.34	0.633	25.1	58.5	3.45
	BH14-14-19-AD05	2014 02 28	11.4 - 11.4	***8.35***	3,030	0.16	2.93	41.5	-	-	< 0.8	-	0.107	10,700	5.9	2.69	6.9	6,150	2.93	< 10	3,810	126	< 0.1	0.39	8.28	< 1	0.055	< 200	31.9	< 0.1	< 0.2	0.247	13.3	20.9	1.08
BH14-17	BH14-17-17-AD05	2014 03 01	10.7 - 10.7	***8.54***	7,980	1.07	9.06	***1,030***	-	-	0.62	-	1.12	98,900	15.5	***73.4***	24.1	25,100	12.2	12.1	6,610	**32,000**	0.055	***19.6***	***81.8***	< 1	0.083	< 200	336	***2.63***	0.18	1.83	28.3	149	5.15
	BH14-17-2-AD05	2014 03 01	1.1 - 1.1	***9.13***	5,420	0.46	5.27	169	-	-	< 0.8	-	0.239	34,600	22.5	5.03	18	14,600	15.4	6.8	7,980	256	< 0.1	3.06	16	< 1	0.109	256	87.5	0.064	0.58	0.51	21.7	48.7	2.04
	BH14-17-6-AD05	2014 03 01	3.2 - 3.2	***9.59***	4,190	0.55	4.36	123	-	-	< 0.8	-	0.274	36,000	13.4	4.57	12.4	12,400	6.11	5.9	15,200	344	< 0.1	0.93	17.2	< 1	0.163	435	83.6	0.077	0.2	1.02	20.7	35.4	2.89
BH14-18	BH14-18-01-AD05	2014 03 02	0.3 - 0.3	***9.08***	4,330	0.31	3.6	107	-	-	< 0.8	-	0.195	25,500	14.5	4.3	10.3	11,300	3.84	5.4	6,520	255	< 0.1	0.82	13.3	< 1	0.07	255	72.3	< 0.1	0.16	0.29	19.2	26.8	2.1
	BH14-18-19-AD05	2014 03 02	20.6 - 20.6	***9.25***	4,120	0.31	3.25	235	-	-	< 0.8	-	0.148	17,000	11.8	3.56	10.1	8,240	3.6	5.7	4,320	177	< 0.1	0.78	12.8	< 1	0.088	177	83.6	< 0.1	0.15	0.305	18.4	25.3	2.73
	BH14-18-20-AD05	2014 03 02	22.4 - 22.4	***8.76***	3,940	0.33	3.22	81.6	-	-	< 0.8	-	0.192	25,100	17.1	4.12	9.38	9,980	3.83	5.6	4,080	148	< 0.1	0.77	13.4	< 1	0.06	107	85.6	0.051	0.18	0.569	19.9	29.3	2.74
	BH14-18-25-AD05	2014 03 02	27.0 - 27.0	***8.72***	4,570	0.4	3.51	81	-	-	< 0.8	-	0.177	17,700	14.1	4.68	9.58	10,500	3.93	5.8	5,540	158	< 0.1	0.41	17.4	< 1	0.055	< 200	54.4	< 0.1	0.13	0.853	22.2	30.5	3.07
	BH14-18-25A-AD05	Duplicate	27.0 - 27.0	***8.68***	3,750	0.31	3	60.6	-	-	< 0.8	-	0.143	20,100	11.3	3.99	8.91	8,930	3.26	5.2	6,010	150	< 0.1	0.44	14.6	< 1	0.07	< 200	51.4	< 0.1	0.1	0.519	18.2	24.9	2.27
	QA/QC RPD%			0	20	*	16	29	-	-	*	-	21	13	22	16	7	16	19	*	8	5	*	*	17	*	*	*	6	*	*	49	20	20	*
	BH14-18-27-AD05	2014 03 02	29.0 - 29.0	***8.64***	5,260	0.22	3.15	146	-	-	< 0.8	-	0.146	17,600	13.4	4.78	8.75	11,300	3.47	5.1	6,500	233	< 0.1	0.36	13.7	< 1	0.062	145	55	< 0.1	0.19	0.419	18.9	26.3	2.53
BH14-19	BH14-19-24-AD05	2014 03 04	18.9 - 18.9	7.88	5,240	0.85	**10.3**	***3,150***	-	-	< 0.8	-	***38.1***	38,900	10.8	***794***	***360***	17,700	6.95	11.3	7,850	**93,900**	0.194	***81.8***	***908***	< 1	0.181	134	137	***23.1***	0.22	1.19	23.8	***627***	4.12
	BH14-19-37-AD05	2014 03 05	31.2 - 31.2	***8.89***	5,060	0.21	3.3	71	-	-	< 0.8	-	0.13	16,900	27.7	4.71	11.2	12,300	3.5	6.4	6,740	183	< 0.1	0.55	21.3	< 1	< 0.1	< 200	50.5	< 0.1	0.2	0.326	23.7	28.8	2.5
	BH14-19-41A-AD05	2014 03 05	32.8 - 32.8	***8.82***	5,210	0.28	3.09	99.7	-	-	< 0.8	-	0.187	18,500	32.9	5.43	15.7	14,500	3.73	6.1	7,210	214	< 0.1	2.02	23.6	< 1	0.053	114	56.3	0.052	0.28	0.364	28.6	36.4	3.35
BH14-20	BH14-20-01-AD05	2014 03 03	1.8 - 1.8	***8.45***	5,460	0.4	4.21	119	-	-	< 0.8	-	0.207	4,150	15	5.51	12.9	13,600	6.29	6.9	4,010	313	< 0.1	0.52	19.2	< 1	0.053	139	23.4	< 0.1	0.17	0.663	23.9	32.1	2.22
	BH14-20-06-AD05	2014 03 03	6.9 - 6.9	***9.1***	4,590	0.3	3.35	89.4	-	-	< 0.8	-	0.214	21,600	20.3	5.37	9.7	13,000	4.27	5.4	6,830	226	< 0.1	0.45	21.4	< 1	0.085	121	58.8	0.051	0.17	0.423	24	31.8	2.69
	BH14-20-21-AD05	2014 03 03	22.0 - 22.0	***8.72***	2,890	0.31	2.72	66.3	-	-	< 0.8	-	0.153	16,200	6.6	2.97	7.98	7,120	3.81	< 10	3,300	92.3	< 0.1	0.55	9.21	< 1	0.069	< 200	53.8	< 0.1	< 0.2	0.584	14	24.8	1.99
	BH14-20-23-AD05	2014 03 03	23.9 - 23.9	***8.72***	3,240	0.47	3.45	153	-	-	< 0.8	-	0.259	13,200	10.1	3.16	10.5	9,520	4.36	5	4,100	91.6	< 0.1	0.51	11.7	< 1	0.082	< 200	42.9	< 0.1	0.12	0.416	17.1	41.2	2.51
	BH14-20-23A-AD05	Duplicate	23.9 - 23.9	***8.76***	3,460	0.58	4.58	227	-	-	< 0.8	-	0.246	14,400	11.7	3.77	13	11,500	4.94	5.2	4,400	104	0.064	0.56	12.3	0.6	0.093	< 200	48	0.055	0.15	0.456	19.8	52.2	3.21
	QA/QC RPD%			0	7	*	28	39	-	-	*	-	5	9	15	18	21	19	12	*	7	13	*	*	5	*	*	*	11	*	*	*	15	24	*
BH14-21	BH14-21-02-AD05	2014 03 03	1.2 - 1.4	7.6	7,780	0.51	6.12	114	-	-	< 0.8	-	0.218	2,390	21.4	7.63	14	16,800	7.79	12.3	4,380	299	< 0.1	0.78	27.1	< 1	0.054	< 200	13.4	0.114	0.42	0.631	24.9	49.6	3.96
	BH14-21-12-AD05	2014 03 03	8.7 - 8.8	***9.1***	4,910	0.46	3.47	95.8	-	-	< 0.8	-	0.222	18,900	20.5	5.54	11	12,100	3.82	6.6	6,880	238	< 0.1	0.53	20.7	< 1	0.069	< 200	56.5	0.053	0.21	0.42	22.6	33.2	2.81
BH14-22	BH14-22-01-AD05	2014 03 04	1.2 - 1.2	***8.08***	10,500	0.54	5.93	201	-	-	0.49	-	0.452	11,400	25.7	7.6	11.9	18,800	23.3	13.7	5,670	324	< 0.1	1.08	16.8	< 1	0.09	3,540	60.4	0.09	0.87	0.564	31.6	62.8	1.28
	BH14-22-19-AD05	2014 03 04	26.8 - 26.8	***8.8***	6,600	0.55	4.18	191	-	-	< 0.8	-	0.271	24,200	21.2	7.3	14.7	15,400	7.58	11.9	7,380	248	< 0.1	0.52	22.7	< 1	0.091	177	75	0.107	0.37	0.549	23.7	54.8	4.71
	BH14-22-19A-AD05	Duplicate	26.8 - 26.8	***8.93***	5,880	0.42	3.57	175	-	-	< 0.8	-	0.279	22,200	19.4	7	12.7	14,100	6.53	10.9	6,820	230	< 0.1	0.47	20.2	< 1	0.087	196	68.3	0.08	0.31	0.519	22.2	51	4.58
	QA/QC RPD%			1	12	*	16	9	-	-	*	-	3	9	9	4	15	9	15	*	8	8	*	*	12	*	*	10	9	*	*	6	7	7	*
	BH14-22-30-AD05	2014 03 04	29.1 - 29.1	***8.76***	6,110	0.48	2.79	150	-	-	< 0.8	-	0.344	25,400	25.7	6.62	14.4	15,500	4.4	9.9	9,020	271	< 0.1	0.55	26.4	< 1	0.064	101	74.5	0.063	0.29	1.19	28.6	46.5	4.57
BH14-23	BH14-23-01-AD05	2014 03 04	0.6 - 0.6	***9.07***	6,130	0.46	4.62	167	-	-	< 0.8	-	0.234	23,600	15.1	5.18	13.6	12,400	13	7.8	7,680	267	< 0.1	0.73	17.6	< 1	0.1	226	54.4	0.068	0.42	0.461	21.8	39	3.04
	BH14-23-02-AD05	2014 03 04	1.2 - 1.2	***9.17***	6,500	0.47	4.14	198	-	-	< 0.8	-	0.409	21,900	15.7	5.79	13.8	13,600	13.9	9.6	5,550	298	< 0.1	0.71	21	< 1	0.094	256	70.6	0.076	0.35	1.62	23.9	47.5	2.98
	BH14-23-15-AD05	2014 03 04	16.3 - 16.3	***8.78***	4,240	0.29	3.79	70.3	-	-	< 0.8	-	0.246	22,000	10.1	5.21	10.6	10,700	4.71	< 10	4,510	217	< 0.1	0.63	14.7	< 1	0.07	154	64.8	< 0.1	0.16	0.346	21	31.3	2.83
	BH14-23-16-AD05	2014 03 04	17.5 - 17.5	***8.79***	4,450	0.27	3.02	71.7	-	-	< 0.8	-	0.16	14,800	18	4.06	7.65	10,000	3.49	< 10	5,270	156	< 0.1	0.51	16.5	< 1	0.06	155	47.5	< 0.1	0.17	0.487	20.1	26.9	2.35
	BH14-23-17-AD05	2014 03 04	19.7 - 19.7	***8.87***	4,360	0.31	3.71	81.7	-	-	< 0.8	-	0.171	18,000	14.7	4.02	8.06	11,000	3.77	5.2	6,060	153	< 0.1	0.49	15.8	< 1	0.06	103	53.4	< 0.1	0.16	0.329	20	31.3	2.46
	BH14-23-23-AD05	2014 03 04	27.0 - 27.0	***8.83***	3,380	0.54	4.86	206	-	-	< 0.8	-	0.368	15,500	9.9	3.41	11.7	11,400	4.27	< 10	4,860	148	< 0.1	0.58	12.2	< 1	0.114	< 200	50.8	< 0.1	0.14	0.439	16.5	45.2	3.13
	BH14-23-23A-AD05	Duplicate	27.0 - 27.0	***8.82***	3,410	0.63	5.71	227	-	-	< 0.8	-	0.31	15,200	9.6	3.47	12.5	11,700	4.85	< 10	4,860	153	< 0.1	0.66	12.3	< 1	0.098	< 200	53	< 0.1	0.13	0.516	17.4	46.4	3.29
	QA/QC RPD%			0	1	*	16	10	-	-	*	-	17	2	3	2	7	3	13	*	0	3	*	*	1	*	*	*	4	*	*	*	5	3	*
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	150,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] Standard is pH dependent.

TABLE 3 (Cont'd): Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
BH14-24	BH14-24-01-AD05	2014 03 05	0.8 - 0.8	***8.92***	4,290	0.45	4.85	108	-	-	< 0.8	-	0.257	21,600	14.8	4.52	17.6	12,000	7.04	< 10	5,190	199	< 0.1	0.65	17	< 1	0.079	874	55.8	0.056	0.17	0.405	21.2	38.1	2.37
	BH14-24-02-AD05	2014 03 05	1.1 - 1.1	***11.1***	7,620	0.35	2.85	165	-	-	< 0.8	-	0.456	40,200	18.7	5.02	8.51	12,000	6.84	13.1	4,260	188	< 0.1	1.03	13.3	< 1	0.092	1,360	60	0.061	0.74	0.55	25.7	***235***	4.26
	BH14-24-03-AD05	2014 03 05	1.5 - 1.5	***8.05***	6,750	0.48	5.24	73.5	-	-	< 0.8	-	0.177	2,250	22.3	6.27	12.4	17,100	7.21	13.7	4,070	153	< 0.1	0.65	26.5	< 1	< 0.1	385	13.4	0.083	0.32	0.539	25.3	45.6	2.62
	BH14-24-12-AD05	2014 03 05	20.1 - 20.1	***8.43***	1,990	0.28	6.27	63.1	-	-	< 0.8	-	0.267	4,390	4.3	2.42	10	8,940	4.24	< 10	1,900	274	< 0.1	0.85	11.1	< 1	< 0.1	< 200	23	0.093	< 0.2	0.285	11.4	30	1.22
	BH14-24-14-AD05	2014 03 05	20.7 - 20.7	***8.22***	5,500	0.85	3.43	336	-	-	0.59	-	0.511	18,800	20.7	5.85	33.6	11,900	10.4	10.8	6,590	135	0.188	0.34	20.6	< 1	0.284	< 200	62.5	0.093	0.42	0.842	24.7	87.8	10.7
	BH14-24-15-AD05	2014 03 05	20.9 - 20.9	***8.52***	8,240	0.82	9.56	257	-	-	0.43	-	0.593	21,900	22.1	8.47	21.5	18,800	11.9	16	7,170	209	0.055	0.56	28.3	< 1	0.16	101	71.2	0.131	0.47	0.688	27	79.5	6.29
	BH14-24-18-AD05	2014 03 05	24.7 - 24.7	***9.09***	3,650	0.26	3.58	90.1	-	-	< 0.8	-	0.136	12,700	13.5	3.06	7.05	7,760	3.06	< 10	4,070	199	< 0.1	0.45	11.1	< 1	< 0.1	122	39	< 0.1	0.12	0.322	16	26.1	1.96
BH14-25	BH14-25-01-AD05	2014 03 06	2.0 - 2.0	***9.72***	4,470	0.31	2.97	70.7	-	-	< 0.8	-	0.139	11,700	17.5	4.73	9.99	11,000	4.31	5.4	5,270	211	< 0.1	0.45	22.1	< 1	< 0.1	328	30.5	< 0.1	0.15	0.418	20.2	25.9	2.36
	BH14-25-06-AD05	2014 03 06	9.9 - 9.9	***8.95***	2,920	0.34	4.05	67.1	-	-	< 0.8	-	0.154	14,300	8.7	2.95	7.43	9,010	2.91	< 10	4,300	133	< 0.1	0.57	10.5	< 1	0.058	< 200	46.9	< 0.1	< 0.2	0.414	13.7	29.1	1.75
	BH14-25-09-AD05	2014 03 06	12.8 - 12.8	***8.16***	4,390	0.34	**11.2**	61.9	-	-	< 0.8	-	0.398	12,500	14.3	8.93	7.61	11,000	2.92	6.9	5,140	805	< 0.1	4.12	25.3	< 1	< 0.1	< 200	41.1	0.327	0.16	1	18.8	33.5	2.55
	BH14-25-09A-AD05	Duplicate	12.8 - 12.8	***8.22***	4,980	0.31	9.96	71.7	-	-	< 0.8	-	0.406	14,300	17.3	8.78	8.36	12,000	3.67	9	5,960	647	< 0.1	3.4	26.9	< 1	0.061	< 200	43.6	0.316	0.19	1.16	19.7	36.8	2.91
	QA/QC RPD%			1	13	*	12	15	-	-	*	-	2	13	19	2	9	9	23	*	15	22	*	19	6	*	*	*	6	3	*	15	5	9	*
BH14-26	BH14-26-23-AD05	2014 03 07	32.8 - 32.8	***8.71***	4,250	0.28	2.45	74.7	-	-	< 0.8	-	0.139	29,100	8.7	3.36	14.8	8,550	3.66	< 10	5,720	145	< 0.1	1.11	12.1	< 1	< 0.1	135	88.1	< 0.1	0.11	0.385	16	26.9	2.55
BH14-27	BH14-27-01-AD05	2014 03 06	1.5 - 1.5	***9.31***	4,340	0.35	3.43	96.8	-	-	< 0.8	-	0.202	2,960	12.9	5.11	12	12,800	4.98	5.5	2,970	297	0.057	0.63	18	< 1	0.06	281	12.7	0.067	0.26	0.446	21.6	31.4	2.54
	BH14-27-06-AD05	2014 03 06	7.8 - 7.8	***8.97***	3,720	0.48	***24.5***	109	-	-	< 0.8	-	0.221	27,900	8.6	9.89	13.3	21,400	7.75	< 10	4,800	637	0.084	1.41	23.2	< 1	0.115	212	60.4	0.071	0.12	0.38	16.3	34.6	4.44
	BH14-27-10-AD05	2014 03 07	12.7 - 12.7	***8.41***	4,750	0.18	1.27	88.2	-	-	< 0.8	-	0.181	14,700	33.3	7.35	8.53	9,190	6.06	9	4,930	191	0.075	0.62	17.1	< 1	0.067	< 200	49.9	0.12	0.27	1.22	15.5	38.4	3.11
	BH14-27-10A-AD05	Duplicate	12.7 - 12.7	***8.27***	4,580	0.23	2.11	88.2	-	-	< 0.8	-	0.179	15,400	15.9	7.19	7.74	9,750	5.6	8	5,060	273	0.059	0.44	16	< 1	0.053	< 200	50	0.106	0.24	0.728	16.9	36.2	3.12
	QA/QC RPD%			2	4	*	*	0	-	-	*	-	1	5	71	2	10	6	8	*	3	35	24	*	7	*	*	*	0	*	*	51	9	6	*
	BH14-27-11-AD05	2014 03 07	13.1 - 13.1	***8.39***	4,420	0.42	***13***	87.1	-	-	< 0.8	-	0.137	15,000	14.1	5.01	10.4	12,900	4.55	6.1	4,900	176	< 0.1	0.59	14.2	< 1	0.062	< 200	47.4	< 0.1	0.16	0.351	19	31.2	3.27
BH14-28	BH14-28-07-AD05	2014 03 07	12.8 - 12.8	***8.97***	5,280	0.45	3.96	342	-	-	< 0.8	-	0.316	37,700	20.6	**32**	12.4	14,800	5.22	7.9	6,010	**4,430**	0.059	5.91	24.1	< 1	0.097	366	106	0.167	0.29	0.451	18.6	42.1	3.7
	BH14-28-10-AD05	2014 03 07	15.9 - 15.9	***8.52***	4,010	0.2	2.5	48.3	-	-	< 0.8	-	0.119	10,200	13.2	3.82	6.78	8,920	3.19	< 10	4,610	165	0.053	0.73	12.1	< 1	0.062	< 200	29.3	< 0.1	0.15	0.266	16.6	21.3	2.33
SS14-01	SS14-01-01-AD05	2014 02 20	0.0 - 0.5	***8.17***	8,630	0.51	5.85	212	-	-	0.51	-	0.413	7,930	32.3	8.18	14.3	19,200	17.6	11.6	4,590	489	< 0.1	1.09	22.7	< 1	0.112	< 200	24.7	0.088	0.44	0.527	28.6	80	0.94
	SS14-01-02-AD05	2014 02 20	0.5 - 1.0	***8.18***	7,850	0.58	6.75	178	-	-	0.47	-	0.349	4,890	25.5	7.93	15	18,000	13.7	11.2	3,640	406	< 0.1	0.95	23.4	< 1	0.106	< 200	18.9	0.096	0.4	0.575	27.1	77.4	0.79
	SS14-01-03-AD05	2014 02 20	1.0 - 1.5	***8.63***	10,600	0.69	7.74	**464**	-	-	0.62	-	0.441	45,400	25.5	9.28	18.1	22,000	12.6	17	6,800	496	< 0.1	0.72	27	< 1	0.177	155	111	0.1	0.59	0.845	33.3	74.8	2.41
SS14-02	SS14-02-01-AD05	2014 02 20	0.0 - 0.5	***8.93***	8,890	0.42	5.95	120	-	-	< 0.8	-	0.213	4,620	31	6.94	9.11	18,300	13.8	11.6	3,490	323	0.081	1.04	18	< 1	0.06	667	18	0.083	0.49	0.521	29.3	71	1.63
	SS14-02-02-AD05	2014 02 20	0.5 - 1.0	***8.88***	10,800	0.37	7.75	116	-	-	0.44	-	0.19	2,250	28.7	9.88	9.07	21,500	12.2	14.5	3,620	480	< 0.1	1.31	19.4	< 1	0.051	904	12.1	0.096	0.45	0.604	33.9	65.6	2.26
	SS14-02-03-AD05	2014 02 20	1.0 - 1.5	***9.05***	11,400	0.47	7.03	129	-	-	0.44	-	0.224	3,240	29.2	9.29	16.2	21,100	10.3	14.2	3,930	388	< 0.1	0.96	26.8	< 1	0.065	951	14.9	0.11	0.43	0.682	31.3	61.9	4.59
SS14-03	SS14-03-01-AD05	2014 02 20	0.0 - 0.5	***8.42***	11,600	0.6	8.08	147	-	-	0.5	-	0.305	4,070	41.8	8.66	11.7	21,100	10	14.2	4,030	300	< 0.1	1.64	25.7	< 1	0.053	145	18.8	0.109	0.47	0.609	32.7	65.2	3.56
	SS14-D1-01-AD05	Duplicate	0.0 - 0.5	***8.47***	11,300	0.6	8.5	143	-	-	0.48	-	0.235	6,220	36.1	8.74	12.4	21,600	10.3	15.1	4,110	263	< 0.1	1.56	27.6	< 1	< 0.1	173	22.7	0.11	0.49	0.62	33.6	66.4	3.7
	QA/QC RPD%			*	3	0	5	3	-	-	*	-	26	42	15	1	6	2	3	*	2	13	*	5	7	*	*	18	19	*	*	2	3	2	*
	SS14-03-02-AD05	2014 02 20	0.5 - 1.0	7.59	7,160	0.56	6.44	100	-	-	< 0.8	-	0.175	2,250	25.9	6.86	13.8	16,600	7.32	9.1	3,580	275	< 0.1	0.82	25.8	< 1	< 0.1	125	12.8	0.079	0.29	0.818	26.1	47.7	3.92
	SS14-03-03-AD05	2014 02 20	1.0 - 1.5	***8.42***	7,650	0.57	6.82	115	-	-	< 0.8	-	0.284	2,620	24.3	8.04	18.6	17,600	7.39	10.9	4,520	337	0.079	0.77	30.1	< 1	0.053	225	15.3	0.113	0.33	0.864	27.4	56.6	3.55
SS14-04	SS14-04-01-AD05	2014 02 20	0.0 - 0.5	***8.13***	9,010	0.51	6.59	119	-	-	< 0.8	-	0.204	2,540	30.1	7	11	16,700	8.92	10.9	3,730	229	< 0.1	1.17	25.2	< 1	< 0.1	< 200	13.4	0.087	0.34	0.543	26.3	55.2	2.72
	SS14-04-02-AD05	2014 02 20	0.5 - 1.0	***8.01***	8,040	0.57	6.69	122	-	-	< 0.8	-	0.284	2,410	25.2	7.61	18.7	16,900	7.88	10.6	4,060	301	< 0.1	0.82	28	< 1	0.109	121	14.6	0.098	0.36	0.722	25.9	52.1	4.65
	SS14-04-03-AD05	2014 02 20	1.0 - 1.5	***8.43***	6,750	0.51	6.08	123	-	-	< 0.8	-	0.353	2,650	19.9	6.7	14.6	15,500	6.42	9.5	4,250	302	< 0.1	0.64	25.8	< 1	0.075	236	15.5	0.089	0.38	0.584	22.9	54.8	7.98
SS14-05	SS14-05-01-AD05	2014 02 20	0.0 - 0.5	***8.2***	7,080	0.49	5.51	111	-	-	0.47	-	0.277	4,290	43.1	5.91	12.6	14,800	7.13	8.1	4,010	274	0.221	0.86	24.3	< 1	0.105	< 200	18.1	0.08	0.31	0.529	25	48	3.46
	SS14-05-02-AD05	2014 02 20	0.5 - 1.0	***8.31***	7,440	0.49	5.23	99.6	-	-	< 0.8	-	0.249	6,000	30.5	5.96	13.6	14,500	6.43	7.2	4,470	281	0.309	1.01	27.2	< 1	0.053	< 200	28.1	0.071	0.29	0.478	24.5	47.3	3.72
	SS14-05-03-AD05	2014 02 20	1.0 - 1.5	***8.32***	6,220	0.35	3.97	99.3	-	-	< 0.8	-	0.253	4,930	27.4	5.15	12.1	12,200	5.34	6.6	4,340	272	0.133	0.84	23.3	< 1	0.071	< 200	20.4	0.077	0.25	0.419	21.3	39.1	3.18
SS14-06	SS14-06-01-AD05	2014 02 20	0.0 - 0.5	6.83	8,220	0.52	6.45	98.1	-	-	< 0.8	-	0.295	2,170	30.5	7.27	12.9	17,700	7.39	9.8	4,090	276	< 0.1	0.94	27.3	< 1	< 0.1	< 200	10.9	0.074	0.35	0.549	30	45.5	4.72
	SS14-06-02-AD05	2014 02 20	0.5 - 1.0	***8.01***	7,160	0.97	6.97	121	-	-	0.4	-	0.225	6,370	20.8	11	19	18,100	8.09	9.7	4,570	315	0.057	0.65	23.6	< 1	0.102	106	19.4	0.066	0.29	0.631	23.5	40	4.22
	SS14-06-03-AD05	2014 02 20	1.0 - 1.5	***8.6***	6,530	0.38	4.78	103	-	-	< 0.8	-	0.247	24,900	19.1	5.71	13.3	13,900	5.67	7.6	9,250	310	< 0.1	0.65	20.2	< 1	0.092	108	45.8	0.073	0.26	0.595	22.7	36.1	3.85
SS14-07	SS14-07-01-AD05	2014 02 20	0.0 - 0.5	7.88	7,260	0.54	4.91	117	-	-	0.41	-	0.265	3,720	***69.5***	6.2	16.5	18,400	6.39	6.6	4,320	302	< 0.1	6.61	22.4	< 1	0.053	113	15.3	0.057	0.45	0.612	27.2	36.8	5.51
	SS14-07-02-AD05	2014 02 20	0.5 - 1.0	***8.21***	7,060	0.37	4.61	121	-	-	< 0.8	-	0.219	6,700	28.7	5.75	12.9	14,300	8.52	7.4	4,150	268	< 0.1	0.78	20.1	< 1	0.055	108	20.3	0.061	0.3	0.671	26.5	35.3	4.82
	SS14-07-03-AD05	2014 02 20	1.0 - 1.5	***8.46***	6,530	0.41	4.47	129	-	-	0.41	-	0.228	7,530	27.9	5.55	13.8	14,700	5.83	7.8	5,670	267	< 0.1	1.02	19.8	< 1	< 0.1	< 200	20.3	0.071	0.39	0.566	26.4	36.6	4.78
SS14-08	SS14-08-01-AD05	2014 02 20	0.0 - 0.5	***8.02***	9,670	0.41	5.36	140	-	-	< 0.8	-	0.283	4,930	34.6	6.82	10.5	16,800	7.45	9.1	3,880	261	< 0.1	2.44	22	< 1	< 0.1	< 200	18.3	0.067	0.51	0.448	28	42.7	4.12
	SS14-08-02-AD05	2014 02 20	0.5 - 1.0	7.96	8,460	0.37	5.19	116	-	-	< 0.8	-	0.18	3,470	23.6	6.06	9.1	15,000	6.67	8.1	3,720	263	< 0.1	0.93	20.5	< 1	< 0.1	< 200	15.7	0.062	0.38	0.392	25.6	37.3	4.61
	SS14-08-03-AD05	2014 02 20	1.0 - 1.5	7.52	9,020	0.49	5.49	131	-	-	0.46	-	0.251	2,330	28.4	7	12.5	17,700	6.49	9	4,790	310	< 0.1	1.08	27.8	< 1	< 0.1	< 200	12	0.079	0.32	0.484	29.9	39.8	6.59
	SS14-D2-01-AD05	Duplicate	1.0 - 1.5	***8.33***	6,420	0.35	4.63	185	-	-	< 0.8	-	0.155	3,270	24.6	5.02	11.2	13,700	5.47	6.8	3,610	245	< 0.1	1.43	18.1	< 1	< 0.1	< 200	13.5	0.057	0.23	0.398	23.8	32.4	3.62
	QA/QC RPD%			*	34	*	*	34	-	-	*	-	47	34	14	33	11	25	17	*	28	23	*	28	42	*	*	*	12	*	*	*	23	20	*
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	150,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Standard is pH dependent.

TABLE 3 (Cont'd): Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
SS14-10	SS14-10-01-AD05	2014 02 20	0.0 - 0.5	***8.25***	5,720	0.39	4.53	94.5	-	-	< 0.8	-	0.183	2,640	20.4	6.27	9.72	13,400	6.31	8.2	3,750	294	< 0.1	0.51	20.7	< 1	< 0.1	< 200	14.1	0.069	0.29	0.504	22.7	41.3	3.7
	SS14-10-02-AD05	2014 02 20	0.5 - 1.0	***8.3***	6,110	0.44	4.89	95.2	-	-	< 0.8	-	0.206	2,970	31.6	6.72	10.5	16,300	5.81	8.4	4,240	322	< 0.1	0.6	22.2	< 1	< 0.1	< 200	15.1	0.062	0.33	0.552	23.2	44.5	3.68
	SS14-10-03-AD05	2014 02 20	1.0 - 1.5	***8.56***	6,060	0.43	4.71	97.1	-	-	< 0.8	-	0.224	5,310	24.7	6.36	10.9	15,300	5.88	7.7	5,250	346	< 0.1	0.74	24.2	< 1	< 0.1	< 200	16.5	0.061	0.28	0.7	24.7	43	3.06
SS14-11	SS14-11-01-AD05	2014 02 20	0.0 - 0.5	***8.63***	9,790	0.52	6.71	92.1	-	-	0.47	-	0.307	4,220	40.1	8.32	11.4	18,700	8.45	12.1	4,050	203	< 0.1	2.16	22.8	< 1	0.061	217	15.4	0.101	0.43	0.601	29.8	57.3	3.8
	SS14-11-02-AD05	2014 02 20	0.5 - 1.0	***8.18***	7,490	0.69	7.31	111	-	-	0.4	-	0.284	2,770	25.8	7.96	15.8	17,300	8.31	10.4	3,970	292	< 0.1	0.91	26.9	< 1	< 0.1	365	11.8	0.108	0.37	0.992	28.2	50.3	4.37
	SS14-11-03-AD05	2014 02 20	1.0 - 1.5	***8.68***	7,630	0.62	6.42	121	-	-	0.52	-	0.439	2,320	25.6	7.62	14.7	17,100	7.41	10.1	3,970	318	< 0.1	0.8	25.9	< 1	0.109	384	13.3	0.114	0.49	0.71	27.8	53.7	10.8
SS14-12	SS14-12-01-AD05	2014 02 20	0.0 - 0.5	***8.33***	9,980	0.64	6.73	226	-	-	0.55	-	0.331	14,200	39	7.68	13.4	18,500	9.09	11.4	4,840	352	< 0.1	2.46	22.8	< 1	0.08	< 200	47.4	0.086	0.58	0.702	30.7	56.7	6.12
	SS14-12-02-AD05	2014 02 20	0.5 - 1.0	7.46	7,460	0.54	7.1	114	-	-	< 0.8	-	0.295	3,330	23.2	7.12	12.1	16,100	7.11	10.2	4,220	311	< 0.1	0.83	26.7	< 1	< 0.1	< 200	16.3	0.094	0.36	0.723	27.1	48.9	4.9
	SS14-D4-01-AD05	Duplicate	0.5 - 1.0	***8.05***	7,440	0.51	6.56	128	-	-	0.41	-	0.274	4,140	22.9	7.17	12.7	16,100	7.35	10.4	4,010	302	< 0.1	0.87	24.3	< 1	< 0.1	< 200	19	0.076	0.36	0.621	25.7	49.3	4.98
	QA/QC RPD%			*	0	6	8	12	-	-	*	-	7	22	1	1	5	0	3	*	5	3	*	5	9	*	*	*	15	*	*	15	5	1	*
	SS14-12-03-AD05	2014 02 20	1.0 - 1.5	7.62	6,170	0.53	5.22	85.7	-	-	< 0.8	-	0.311	2,650	23.8	6.64	8.77	18,000	6.23	9.2	4,300	268	< 0.1	0.63	23.9	< 1	< 0.1	< 200	13.4	0.066	0.28	0.658	26.7	56.1	2.2
SS14-13	SS14-13-01-AD05	2014 02 20	0.0 - 0.5	***8.6***	6,830	0.68	6.15	144	-	-	0.5	-	0.33	26,200	22.2	7.34	15.4	17,900	7.48	11.2	7,250	319	< 0.1	0.85	24.4	< 1	0.092	116	73	0.11	0.38	0.703	24	53.2	2.87
	SS14-13-02-AD05	2014 02 20	0.5 - 1.0	***8.67***	6,390	0.54	5.62	120	-	-	< 0.8	-	0.262	26,200	22.8	6.95	13.5	16,400	6.61	10.2	7,300	296	< 0.1	0.61	25.4	< 1	0.074	103	71.1	0.078	0.33	0.684	26.6	47.5	2.62
	SS14-13-03-AD05	2014 02 20	1.0 - 1.5	***8.54***	5,840	0.55	5.43	99.5	-	-	< 0.8	-	0.256	11,900	18.6	6.55	12.2	16,600	5.95	9.2	5,440	288	< 0.1	0.63	22	< 1	0.06	< 200	38.3	0.081	0.27	0.64	23.5	47.9	2.63
SS14-14	SS14-14-01-AD05	2014 02 20	0.0 - 0.5	***8.46***	6,290	0.56	4.5	122	-	-	0.41	-	0.247	11,500	27.7	5.71	11.4	15,200	6.43	7.7	4,900	409	0.06	1.08	20	< 1	0.067	< 200	37.7	0.071	0.34	0.503	24.8	40.6	2.53
	SS14-14-02-AD05	2014 02 20	0.5 - 1.0	***8.43***	5,600	0.61	4.55	111	-	-	< 0.8	-	0.229	8,190	38.1	5.34	11.4	15,900	6.32	6.6	4,380	413	< 0.1	1.39	19	< 1	0.062	< 200	29	0.058	0.3	2.07	23.8	38.5	2.38
	SS14-14-03-AD05	2014 02 20	1.0 - 1.5	***8.33***	5,970	0.69	4.57	130	-	-	< 0.8	-	0.223	9,600	37	5.87	12	15,000	6.72	7	4,900	467	< 0.1	1.35	21.9	< 1	0.101	< 200	30.1	0.073	0.31	0.524	25.2	40.1	2.4
	SS14-D5-01-AD05	Duplicate	1.0 - 1.5	***8.38***	6,110	0.66	4.63	141	-	-	< 0.8	-	0.231	11,700	37.9	5.96	11.9	14,200	6.82	7.6	6,840	444	< 0.1	0.92	22	< 1	0.063	< 200	28.8	0.07	0.32	0.491	24.9	42.2	2.53
	QA/QC RPD%			*	2	4	*	8	-	-	*	-	4	20	2	2	1	5	1	*	33	5	*	38	0	*	*	*	4	*	*	*	1	5	*
SS14-15	SS14-15-01-AD05	2014 02 21	0.0 - 0.5	7.23	8,800	0.38	4.9	184	-	-	< 0.8	-	0.225	8,670	21.8	6.12	10.8	15,700	10.6	12	3,990	311	< 0.1	0.86	17.5	< 1	0.103	3,010	29.6	0.092	0.61	0.601	27.9	52.7	< 1
	SS14-15-02-AD05	2014 02 21	0.5 - 1.0	6.86	10,000	0.28	3.41	161	-	-	< 0.8	-	0.186	4,900	23.2	5.82	7.33	15,300	9.21	18.7	3,110	255	< 0.1	0.75	15.7	< 1	0.091	2,170	22.1	0.094	0.45	0.644	30	61.6	< 1
	SS14-15-03-AD05	2014 02 21	1.0 - 1.5	7.46	8,360	0.44	9.34	94.1	-	-	0.46	-	0.123	3,330	26.8	9.51	7.77	21,200	9.03	17.2	4,110	400	< 0.1	0.79	20.8	< 1	0.053	1,070	18.8	0.082	0.42	0.856	33.4	74.3	0.77
	SS14-D6-01-AD05	Duplicate	1.0 - 1.5	7.32	9,750	0.48	**11.4**	114	-	-	0.44	-	0.184	3,810	29	11.9	9.86	23,000	9.71	17.1	4,290	599	< 0.1	0.92	23.9	< 1	0.068	1,050	18.7	0.075	0.44	0.885	38.8	75.1	0.92
	QA/QC RPD%			*	15	*	20	19	-	-	*	-	40	13	8	22	24	8	7	*	4	40	*	15	14	*	*	2	1	*	*	3	15	1	*
SS14-17	SS14-17-01-AD05	2014 02 21	0.0 - 0.5	***8.39***	8,560	0.52	3.87	117	-	-	0.42	-	0.172	9,120	49.6	6.31	10.4	18,300	10.5	19.7	4,900	195	< 0.1	3.67	23.3	< 1	0.073	154	25.2	0.094	0.46	0.565	24.5	55.6	1.48
	SS14-17-02-AD05	2014 02 21	0.5 - 1.0	***8.37***	8,630	0.55	5.89	95.4	-	-	0.44	-	0.18	3,790	30.9	6.79	14.1	21,500	9.74	16.9	3,990	159	< 0.1	1.25	27.5	< 1	0.058	184	19	0.119	0.43	0.597	30.3	56.5	2.79
	SS14-17-03-AD05	2014 02 21	1.0 - 1.5	***8.33***	7,650	0.54	5.67	91.5	-	-	< 0.8	-	0.205	3,490	25.2	6.66	14.4	18,200	9.06	15.3	4,510	159	< 0.1	0.83	25.9	< 1	0.076	133	18.4	0.109	0.38	0.528	26.6	54.9	3.25
SS14-18	SS14-18-01-AD05	2014 02 21	0.0 - 0.5	***8.64***	5,560	0.5	4.84	159	-	-	< 0.8	-	0.27	21,900	29.6	5.49	14.2	15,900	9.37	8.6	5,490	239	< 0.1	1.56	16.8	< 1	0.081	< 200	62.8	0.068	0.32	0.533	22.4	56	1.92
	SS14-18-02-AD05	2014 02 21	0.5 - 1.0	***8.18***	8,260	0.48	2.91	93.8	-	-	0.46	-	0.166	4,970	26.4	5.1	8.61	16,000	9.65	18.3	3,380	122	< 0.1	0.82	20.8	< 1	0.053	102	22.3	0.106	0.36	0.533	22.7	59	1.75
	SS14-18-03-AD05	2014 02 21	1.0 - 1.5	***8.35***	7,490	0.45	4.22	90.5	-	-	0.43	-	0.198	3,530	25.8	5.46	10.6	18,500	9.09	14.1	3,690	127	< 0.1	0.89	22.7	< 1	< 0.1	< 200	18.7	0.092	0.34	0.502	26.2	52.7	2.12
SS14-19	SS14-19-01-AD05	2014 02 21	0.0 - 0.5	***8.18***	5,920	0.78	5.44	191	-	-	< 0.8	-	0.291	19,100	***84.1***	6.49	14.9	15,300	20.3	8	5,170	353	< 0.1	1.61	20.3	< 1	0.089	659	51.9	0.087	0.41	0.51	22.9	51.3	2.91
	SS14-19-02-AD05	2014 02 21	0.5 - 1.0	***8.04***	5,960	0.52	4.94	150	-	-	< 0.8	-	0.253	16,600	***64.9***	6.36	15.4	15,700	17.8	7.8	5,340	285	< 0.1	1.24	20.4	< 1	0.077	471	41.1	0.07	0.41	0.499	23.8	46.6	2.81
	SS14-19-03-AD05	2014 02 21	1.0 - 1.5	***8.14***	6,480	0.6	5.49	145	-	-	< 0.8	-	0.293	11,400	51.9	6.98	16.3	16,100	14.7	8.3	5,130	294	< 0.1	1.32	22.7	< 1	0.091	445	36.3	0.073	0.36	0.525	25.2	52.7	2.7
SS14-20	SS14-20-01-AD05	2014 02 21	0.0 - 0.5	***9.27***	8,120	0.53	6.11	148	-	-	0.4	-	0.322	6,050	31.3	6.73	13	16,100	10.3	10	3,620	258	< 0.1	1.29	20.7	< 1	0.06	723	23.7	0.067	0.53	0.519	26.4	53.8	2.85
	SS14-20-02-AD05	2014 02 21	0.5 - 1.0	***9.25***	8,850	0.52	6.07	157	-	-	0.48	-	0.289	7,040	30.4	7.34	13.2	18,900	13.1	10.9	3,960	286	< 0.1	1.16	21.9	< 1	0.074	747	25.7	0.084	0.49	0.603	28.5	56.9	2.98
	SS14-20-03-AD05	2014 02 21	1.0 - 1.5	***9.09***	8,750	0.63	7.06	161	-	-	0.43	-	0.268	8,750	23.6	8.17	17.2	18,400	9.43	11.5	5,660	334	< 0.1	0.81	27.4	< 1	0.085	535	30.4	0.102	0.45	0.627	28.3	62.5	3.42
SS14-21	SS14-21-01-AD05	2014 02 21	0.0 - 0.5	***9.62***	4,250	0.4	4.01	94.6	-	-	< 0.8	-	0.196	7,370	33.7	4.52	9.64	10,700	4.81	6.1	5,300	219	< 0.1	0.9	17.8	< 1	0.071	317	16.4	0.059	0.29	0.39	20.5	30.1	2.08
	SS14-21-02-AD05	2014 02 21	0.5 - 1.0	***9.64***	4,440	0.43	4.12	97	-	-	< 0.8	-	0.238	6,910	36.3	4.74	11	11,800	4.48	< 10	3,990	251	< 0.1	3.08	18.8	< 1	0.095	313	22.7	0.055	0.24	0.371	19.9	33.9	2.08
	SS14-21-03-AD05	2014 02 21	1.0 - 1.5	***9.68***	4,240	0.36	4.23	105	-	-	< 0.8	-	0.184	10,700	21.4	4.97	10.3	11,100	6.05	5.2	4,380	230	< 0.1	0.81	17.2	< 1	0.072	321	26.5	0.053	0.19	0.377	21	33.2	2.05
SS14-22	SS14-22-01-AD05	2014 02 21	0.0 - 0.5	***8.74***	5,230	0.47	4.73	95.5	-	-	< 0.8	-	0.271	17,000	18.5	5.84	11.1	13,900	5.43	8.6	5,910	296	< 0.1	0.67	22.6	< 1	< 0.1	< 200	55.9	0.073	0.27	0.579	22.2	43.9	2.33
	SS14-D8-01-AD05	Duplicate	0.0 - 0.5	***8.72***	5,630	0.5	5.05	96.5	-	-	< 0.8	-	0.228	17,600	20.1	6.08	11.8	14,500	5.78	8.8	6,150	307	< 0.1	0.69	22.7	< 1	0.078	< 200	56.5	0.06	0.27	0.564	23.6	45.2	2.22
	QA/QC RPD%			*	7	*	*	1	-	-	*	-	17	3	8	4	6	4	6	*	4	4	*	3	0	*	*	*	1	*	*	3	6	3	*
	SS14-22-02-AD05	2014 02 21	0.5 - 1.0	***8.79***	5,250	0.56	4.98	124	-	-	< 0.8	-	0.3	19,800	20.2	6.24	11.5	15,300	5.4	9	6,310	296	< 0.1	0.7	22.6	< 1	0.071	< 200	60.2	0.072	0.26	0.591	24.3	48	2.87
	SS14-22-03-AD05	2014 02 21	1.0 - 1.5	***8.76***	5,510	0.54	5.22	123	-	-	< 0.8	-	0.331	20,600	20.9	6.49	13.2	14,900	5.7	9.6	6,240	413	< 0.1	0.73	23.7	< 1	0.08	< 200	62.2	0.066	0.3	0.584	23.8	48.5	2.77
SS14-23	SS14-23-01-AD05	2014 02 21	0.0 - 0.5	***8.47***	5,100	0.47	4.96	102	-	-	< 0.8	-	0.182	18,900	26.6	5.43	12.2	13,700	8.66	8.6	4,900	251	< 0.1	0.81	19.4	< 1	0.07	< 200	59.1	0.078	0.29	0.4	20.6	46.4	1.27
	SS14-23-02-AD05	2014 02 21	0.5 - 1.0	***8.27***	7,240	0.58	5.69	132	-	-	0.42	-	0.286	7,290	***70.1***	7.18	13.1	17,000	10.8	12.4	4,690	311	< 0.1	1.03	22.8	< 1	0.095	107	26.1	0.083	0.42	0.602	25.6	59.5	1.72
	SS14-23-03-AD05	2014 02 21	1.0 - 1.5	7.92	13,000	0.6	8.26	124	-	-	0.59	-	0.262	4,100	35.7	6.88	14.5	32,500	14.2	26.5	5,020	150	< 0.1	1.38	24.5	< 1	0.165	< 200	24.9	0.127	0.69	0.753	50.7	74.7	7.87
SS14-24	SS14-24-01-AD05	2014 02 21	0.0 - 0.5	***8.41***	9,410	0.83	8.55	197	-	-	0.51	-	0.333	10,600	32.2	9.44	22.7	21,300	11.4	14.3	6,130	405	0.054	1	32.1	< 1	0.132	302	39.6	0.1	0.61	0.744	31.8	66.9	4.48
	SS14-24-02-AD05	2014 02 21	0.5 - 1.0	***8.6***	5,750	0.61	5.45	120	-	-	< 0.8	-	0.291	20,200	21.4	6.69	12.9	14,900	6.38	8.9	6,350	285	< 0.1	0.81	22.6	< 1	0.075	172	61.2	0.073	0.28	0.578	23.8	51.9	2.34
	SS14-24-03-AD05	2014 02 21	1.0 - 1.5	***8.81***	5,030	0.56	4.56	111	-	-	< 0.8	-	0.299	20,300	18	5.5	10.4	13,500	5.16	8.6	6,020	254	< 0.1	0.68	21	< 1	0.055	134	63.6	0.06	0.25	0.58	21.9	47.9	3.1
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	150,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Standard is pH dependent.

TABLE 3 (Cont'd): Summary of Analytical Results for Metals in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Extractable Barium µg/g	True Barium µg/g	Beryllium µg/g	Boron µg/g	Cadmium µg/g	Calcium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Magnesium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Sodium µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
FIRE14BKSS1	FIRE14BKSS1	2014 03 01	0.0 - 0.5	6.49	9,790	0.44	3.17	200	-	-	0.42	-	0.375	4,120	16.9	5.05	4.68	19,400	10.9	8.2	2,220	259	< 0.1	1.48	12.7	< 1	0.054	< 200	21.2	0.079	0.52	0.325	37	67.8	2.4
FIRE14BKSS2	FIRE14BKSS2	2014 03 02	0.0 - 0.5	***4.98***	4,320	0.15	0.59	324	-	-	< 0.8	-	0.912	6,110	9.9	3.06	5.03	8,380	9.25	< 10	1,350	1,210	< 0.1	0.73	6.78	< 1	0.15	< 200	22	< 0.1	0.42	0.465	19.9	80.4	< 1
FIRE14BKSS3	FIRE14BKSS3	2014 03 02	0.0 - 0.5	6.54	6,160	0.22	1.46	334	-	-	< 0.8	-	**1.61**	10,000	10.9	5.49	9.71	11,100	10.9	< 10	1,720	464	0.082	0.8	12.5	< 1	0.467	< 200	36.3	0.061	0.35	0.31	18.1	86.8	< 1
FIRE14SS4	FIRE14SS4	2014 02 28	0.0 - 0.5	7.27	277	< 0.2	< 1	245	-	-	< 0.8	-	1.39	29,400	1.1	2.15	8.12	633	1.05	< 10	1,880	681	0.065	2.93	2.8	< 1	0.084	< 200	98.5	< 0.1	< 0.2	< 0.1	< 4	176	< 1
FIRE14SS5	FIRE14SS5	2014 03 01	0.0 - 0.5	6.16	8,960	0.94	5.54	145	-	-	0.54	-	0.24	4,160	22.6	8.51	11	19,900	23.1	14.5	3,590	412	< 0.1	0.75	21.1	< 1	0.095	< 200	20.5	0.092	0.66	0.551	28.5	56.2	1.82
FIRE14SS6	FIRE14SS6	2014 03 01	0.0 - 0.5	6.79	7,090	0.43	3.77	192	-	-	< 0.8	-	**1.04**	9,820	21.4	6.26	11.5	15,900	10.8	8.8	3,390	437	< 0.1	0.87	18.7	< 1	0.096	< 200	32.6	0.063	0.36	0.391	24.9	102	< 1
FIRE14SS8	FIRE14SS8	2014 03 01	0.0 - 0.5	7.15	13,500	0.33	4.42	226	-	-	0.55	-	0.292	3,340	30.7	8.35	7.36	22,800	13.2	8.9	2,990	270	< 0.1	0.7	27.2	< 1	0.08	< 200	17.1	0.09	0.7	0.412	45.5	65.8	4.14
	FIRE14-DUP1	Duplicate	0.0 - 0.5	6.84	11,600	0.31	4.2	165	-	-	0.61	-	0.316	2,560	28.6	7.39	6.67	20,100	7.47	9.4	3,050	218	< 0.1	0.7	21.8	< 1	0.074	< 200	14.3	0.085	0.57	0.398	41	51.4	4.91
	QA/QC RPD%			*	15	*	*	31	-	-	*	-	8	26	7	12	10	13	55	*	2	21	*	0	22	*	*	*	18	*	*	*	10	25	*
BH17-47	BH17-47-06	2017 06 15	6.4 - 6.6	***8.35***	4,700	0.3	3.4	138	-	-	0.2	-	0.21	17,500	19	5.2	10.5	11,900	4.2	6.0	5,520	217	0.04	0.5	22.5	0.3	140	< 0.5	53	< 0.1	0.3	0.5	26	32	2.1
	BH17-47-09	2017 06 15	7.9 - 8.1	***8.83***	4,750	0.3	3.5	87.3	18	1,200	0.2	-	0.18	15,200	13	4.2	7.8	10,500	3.3	5.4	5,190	226	0.03	0.4	17.5	0.2	< 0.5	107	64	< 0.1	< 0.2	0.4	16	32	1.9
BH17-49	BH17-49-09	2017 06 13	7.5 - 7.6	***9.78***	50,600	3.4	***27.0***	***1,260***	-	-	2.0	-	2.64	273,000	***188***	**49.8**	***107***	130,000	41.3	66.7	63,900	**2,300**	0.08	7.7	***209***	< 0.1	0.7	2,640	811	0.6	2.4	4.8	***231***	***338***	32.8
BH17-50	BH17-50-05	2017 06 13	4.4 - 4.6	***9.80***	4,510	0.4	3.1	111	-	-	0.2	-	0.25	20,400	16	4.5	10.2	11,100	4.1	5.8	5,900	251	0.03	0.6	17.5	< 0.1	< 0.5	660	55	< 0.1	< 0.2	0.4	21	28	2.7
BH17-51	BH17-51-01	2017 06 13	0.4 - 0.6	***8.68***	5,410	0.9	6.3	***634***	-	-	0.3	-	0.55	49,100	17	6.5	17.2	17,100	10.1	7.2	7,820	417	0.03	1.3	21.6	0.3	< 0.5	3,110	143	< 0.1	0.3	0.6	28	67	4.1
	BH17-51-02	2017 06 13	1.4 - 1.6	***8.27***	8,330	0.6	6.2	167	-	-	0.4	-	0.31	14,700	22	7.3	18.1	19,800	15.8	10.3	5,280	288	0.03	0.8	24.7	0.3	< 0.5	4,430	41	< 0.1	0.5	1.2	29	60	3.5
BH17-53	BH17-53-03	2017 06 13	2.4 - 2.6	***8.95***	6,320	0.5	4.9	163	-	-	0.2	-	0.31	31,700	16	5.1	14.7	14,200	5.4	4.8	7,190	259	0.05	0.8	16.2	0.5	< 0.5	1,890	95	< 0.1	0.3	0.4	29	34	4.4
	BH17-53-07	2017 06 13	5.5 - 5.6	***8.80***	4,700	0.5	4.3	101	-	-	0.2	-	0.23	28,200	14	4.1	10.7	11,900	4.9	4.8	6,440	218	0.06	0.8	15.7	0.3	< 0.5	1,730	71	< 0.1	< 0.2	0.4	20	30	3.6
BH17-54	BH17-54-04	2017 06 13	3.5 - 3.7	***8.99***	6,580	0.5	6.0	136	19	737	0.3	-	0.31	28,100	26	6.2	13.2	16,600	6.4	6.1	10,800	256	0.03	0.7	23.3	0.4	< 0.5	210	75	< 0.1	0.3	0.5	26	45	4.3
	BH17-54-06	2017 06 13	5.5 - 5.6	***9.06***	4,400	0.4	3.4	171	-	-	0.2	-	0.24	21,700	13	3.6	8.0	9,040	3.7	4.2	5,410	196	0.02	0.7	15.2	0.5	< 0.5	177	60	< 0.1	< 0.2	0.4	21	27	3.6
BH17-55	BH17-55-04	2017 06 13	2.4 - 2.6	***9.01***	6,380	0.4	3.5	151	-	-	0.2	-	0.21	33,600	13	4.5	12.0	13,000	4.8	7.0	9,790	362	0.04	0.5	13.7	0.3	< 0.5	183	67	< 0.1	0.2	0.5	21	32	3.2
	BH17-55-11	2017 06 13	7.5 - 7.6	***8.98***	5,940	0.5	4.8	158	-	-	0.2	-	0.28	22,300	19	4.8	11.1	15,700	11.4	5.3	8,190	243	0.03	0.9	21.6	0.3	< 0.5	153	68	< 0.1	0.2	0.5	24	45	3.8
BH17-56	BH17-56-07	2017 06 14	5.5 - 5.6	***8.88***	4,310	0.3	5.0	206	-	-	0.6	-	0.22	27,800	13	4.7	11.2	11,700	5.6	5.2	6,290	237	0.03	0.6	19.6	0.4	< 0.5	144	80	< 0.1	0.2	0.5	20	52	2.8
	BH17-56-09	2017 06 14	6.4 - 6.6	***8.89***	5,240	0.4	4.2	166	-	-	0.2	-	0.27	27,900	17	5.3	12.7	14,200	4.7	5.3	6,890	255	0.03	0.7	20.0	0.3	< 0.5	189	83	< 0.1	0.5	0.5	25	36	3.0
BH17-58	BH17-58-06	2017 06 14	4.4 - 4.6	***8.99***	6,230	0.3	3.6	158	-	-	0.2	-	0.18	45,800	14	5.2	12.2	13,000	4.8	7.0	7,130	302	0.03	0.6	18.6	0.4	< 0.5	160	171	< 0.1	0.2	0.4	21	29	2.6
BH17-61	BH17-61-09	2017 06 14	5.9 - 6.1	***8.74***	4,690	0.3	4.5	151	-	-	0.2	-	0.22	24,700	17	5.0	11.7	11,700	20.3	6.5	5,920	349	0.03	0.5	19.3	0.3	< 0.5	103	79	< 0.1	< 0.2	0.6	23	31	2.8
BH17-63	BH17-63-07	2017 06 14	4.4 - 4.6	***8.85***	5,110	0.3	4.2	139	-	-	0.2	-	0.28	27,300	20	6.4	14.7	13,900	5.0	6.4	7,510	256	0.03	0.6	24.8	0.3	< 0.5	102	78	< 0.1	0.2	0.6	23	45	2.9
BH17-65	BH17-65-05	2017 06 15	3.7 - 3.8	***8.17***	4,670	0.7	5.8	195	-	-	0.2	-	0.77	23,500	19	8.1	48.4	22,400	9.1	5.6	7,740	219	0.12	0.8	24.1	0.6	177	< 0.5	68	< 0.1	0.3	0.6	25	30	2.5
	BH17-65-06	Duplicate	3.7 - 3.8	7.95	5,170	0.9	6.0	218	-	-	0.2	-	0.93	22,600	19	8.7	48.7	23,900	11.2	5.8	8,150	207	0.04	1.0	23.8	0.5	184	< 0.5	72	0.1	0.3	0.9	26	30	2.8
	QA/QC RPD%			3	10	25	3	11	-	-	*	-	19	4	0	7	1	6	21	4	5	6	*	*	1	18	4	*	6	*	*	*	4	0	11
	BH17-65-08	2017 06 15	5.2 - 5.3	7.23	4,910	0.4	5.0	129	35	1,060	0.2	-	0.15	19,200	13	4.0	9.1	9,570	3.0	3.6	4,840	216	0.02	0.9	13.3	0.3	< 0.5	157	69	< 0.1	< 0.2	0.4	17	24	1.7
BH17-66	BH17-66-02	2017 06 15	1.4 - 1.5	***8.38***	7,830	0.6	7.1	119	21	919	0.3	-	0.30	5,040	19	6.2	13.8	17,400	7.4	9.0	4,760	370	0.04	0.7	25.3	0.4	< 0.5	320	22	< 0.1	0.4	0.6	22	49	6.4
BH17-67	BH17-67-07	2017 06 15	4.4 - 4.6	***9.49***	9,930	0.5	5.0	104	15	711	0.3	-	0.31	36,700	19	6.7	15.9	20,600	5.0	12.5	8,830	376	0.04	0.5	21.2	0.4	< 0.5	2,130	103	0.1	0.5	0.5	29	51	2.5
	BH17-67-12	2017 06 15	7.5 - 7.6	***8.54***	14,900	0.9	***13.4***	139	3	582	0.5	-	0.84	135,000	18	10.2	23.0	36,200	13.5	11.3	11,600	**4,600**	0.07	5.0	***78.2***	***1.2***	< 0.5	189	362	0.1	0.2	0.7	25	98	4.9
	BH17-67-14	2017 06 15	9.0 - 9.1	***8.64***	11,700	0.7	**10.2**	**355**	3	703	0.4	-	0.86	131,000	15	11.1	21.5	27,600	10.0	11.2	8,840	**9,910**	0.05	5.3	***65.2***	0.7	< 0.5	141	354	0.2	< 0.2	0.6	23	114	3.6
	BH17-67-16	2017 06 15	10.5 - 10.7	***8.07***	9,720	1.3	***18.0***	**371**	-	-	0.7	-	2.29	113,000	18	12.6	25.8	32,600	18.7	14.6	8,980	**24,800**	0.09	***27.6***	***112***	***1.4***	82	< 0.5	333	0.6	0.3	1.0	40	163	6.0
	BH17-67-17	2017 06 15	11.3 - 11.4	7.90	10,000	0.9	**11.7**	***1,050***	-	-	0.6	-	3.53	109,000	17	15.6	28.1	28,000	18.1	15.1	9,340	**43,900**	0.09	***22.9***	***195***	0.9	110	< 0.5	388	***1.8***	0.3	3.7	27	***204***	5.8
	BH17-67-18	Duplicate	11.3 - 11.4	7.92	10,800	0.8	**10.8**	***921***	-	-	0.6	-	3.02	113,000	17	14.4	28.4	28,500	17.4	15.6	10,400	**45,400**	0.08	***21.2***	***175***	1.0	98	< 0.5	382	***1.5***	0.3	3.2	29	190	6.2
	QA/QC RPD%			0	8	12	8	13	-	-	0	-	16	4	0	8	1	2	4	3	11	3	12	8	11	11	12	*	2	18	*	14	7	7	7
	BH17-67-19	2017 06 15	12.0 - 12.2	***8.21***	10,300	0.7	9.8	165	-	-	0.6	-	0.71	113,000	26	9.2	19.8	29,900	13.7	16.8	9,950	**5,000**	0.09	3.0	40.9	***1.2***	71	< 0.5	315	0.3	0.3	0.9	29	96	6.1
BH17-68	BH17-68-05	2017 06 15	3.7 - 3.8	***8.55***	5,120	0.3	3.5	75.3	22	1,030	0.2	-	0.16	18,600	12	3.9	8.0	11,000	3.1	4.5	5,870	216	0.02	0.4	15.2	0.3	< 0.5	668	56	< 0.1	< 0.2	0.3	16	26	2.0
	BH17-68-18	2017 06 15	13.0 - 13.1	***8.92***	4,800	0.3	4.1	71.6	9	1,040	0.2	-	0.27	13,000	18	7.0	10.9	10,600	3.3	4.1	5,590	969	0.06	0.9	21.4	0.2	< 0.5	120	33	0.1	< 0.2	1.2	22	31	1.8
	BH17-68-19	2017 06 15	13.6 - 13.7	***8.29***	6,900	0.3	3.8	86.6	-	-	0.3	-	0.25	15,700	43	13.6	12.0	21,900	4.2	8.2	8,620	1,450	0.04	1.3	37.7	0.3	162	< 0.5	39	0.4	0.4	0.5	45	39	3.0
	BH17-68-21	2017 06 15	15.1 - 15.2	***8.24***	5,730	0.3	3.7	67.1	-	-	0.2	-	0.12	11,300	22	6.3	8.6	14,100	5.2	8.5	6,730	298	0.03	1.0	20.5	0.3	122	< 0.5	32	0.1	0.3	0.4	24	35	3.2
	BH17-68-22	Duplicate	15.1 - 15.2	***8.73***	5,520	0.3	3.4	42.4	4	656	0.2	-	0.09	8,430	14	4.1	6.1	10,600	3.3	5.6	5,540	257	0.02	0.5	13.4	0.2	< 0.5	131	20	< 0.1	< 0.2	0.5	16	26	1.6
	QA/QC RPD%			6	4	*	8	45	-	-	*	-	29	29	44	42	34	28	45	41	19	15	*	*	42	*	*	7	46	*	*	*	40	30	67
	BH17-68-24	2017 06 15	16.3 - 16.5	***8.36***	8,790	0.6	***18.7***	123	-	-	0.6	-	0.63	95,200	16	6.7	20.1	26,600	15.4	14.2	8,750	395	0.08	1.3	17.7	0.9	39	< 0.5	254	< 0.1	0.2	0.6	25	85	4.8
	BH17-68-26	2017 06 15	18.1 - 18.3	***8.78***	12,800	0.7	**10.4**	127	12	659	0.6	-	0.41	121,000	17	7.3	19.9	33,800	10.4	14.0	12,500	379	0.04	1.1	21.9	***1.3***	< 0.5	90	360	< 0.1	0.2	0.6	24	73	4.1
Federal Guideline																																			
CCME CEQG Residential Coarse-Grained (RL)[b]				6.0 - 8.0	n/a	20	12	500	n/a	n/a	4	n/a	10	n/a	64	50	63	n/a	140	n/a	n/a	n/a	6.6	10	45	1	20	n/a	n/a	1	50	23	130	200	n/a
BC Standard																																			
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	40,000	20	10	350	n/a	n/a	1 - 85[d]	8,500	1 - 20[d]	n/a	60	25	75 - 150[d]	35,000	120[d]	30	n/a	2,000	10	15	70 - 150[c]	1	20	n/a	9,500	9	50	30	100	150 - 450[c]	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	250,000	40	10	350	n/a	n/a	250 - 350[d]	1,000,000	20 - 50[d]	n/a	60	25	300[d]	150,000	1,000[d]	450	n/a	2,000	75	15	250[c]	1	40	n/a	150,000	25	300	30	100	450[c]	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Standard is pH dependent.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 4: Summary of Analytical Results for Soil Salinity

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Soil Salinity																	
				Salinity mg/L	% Saturation %	Saturation pH pH	Saturated Paste Conductivity uS/cm	Theoretical Gypsum Req. t/ha	Saturated Paste Sodium µg/g	Saturated Paste Chloride µg/g	Water Soluble Calcium µg/g	Water Soluble Magnesium µg/g	Water Soluble Potassium µg/g	Water Soluble Sulphate µg/g	Soluble Sodium mg/L	Soluble Chloride mg/L	Soluble Calcium mg/L	Soluble Magnesium mg/L	Soluble Potassium mg/L	Soluble Sulphate mg/L	Sodium Adsorption Ratio None
TP-33	FS-33-2.0	2002 10 05	2.0 - 2.0	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP-34	FS-34-1.0	2002 10 05	1.0 - 1.0	> 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP-35	FS-35-1.0	2002 10 05	1.0 - 1.0	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02	BH02-01	2003 01 01	1.2 - 1.2	-	-	-	-	-	-	26	-	-	-	-	-	-	-	-	-	-	-
	BH02-08	2003 01 01	6.6 - 6.6	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
BH06	BH06-05	2003 01 01	7.3 - 7.3	-	-	-	-	-	-	**564**	-	-	-	-	-	-	-	-	-	-	-
BH12	BH12-01	2003 01 01	1.2 - 1.2	-	-	-	-	-	-	**1,240**	-	-	-	-	-	-	-	-	-	-	-
	BH12-05	2003 01 01	7.3 - 7.3	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-
BH39	BH39-1	2004 11 29	0.6 - 0.6	-	-	-	-	-	55.4	**10,100**	-	-	-	-	-	-	-	-	-	-	-
BH40	BH40-1	2004 11 29	0.6 - 0.6	-	-	-	-	-	56	**10,000**	-	-	-	-	-	-	-	-	-	-	-
	BH40-2	2004 11 29	1.2 - 1.2	-	-	-	-	-	27.4	**4,820**	-	-	-	-	-	-	-	-	-	-	-
BH41	BH41-1	2004 11 29	0.6 - 0.6	-	-	-	-	-	< 5	**393**	-	-	-	-	-	-	-	-	-	-	-
BH46	BH46-1	2004 11 29	0.3 - 0.3	-	-	-	-	-	9.29	**1,550**	-	-	-	-	-	-	-	-	-	-	-
BH47	BH47-1	2004 11 29	0.3 - 0.3	-	-	-	-	-	17.2	**3,130**	-	-	-	-	-	-	-	-	-	-	-
BH52	BH52-2	2004 11 29	2.4 - 2.4	-	-	-	-	-	< 5	45	-	-	-	-	-	-	-	-	-	-	-
BH83	BH83-4	2005 03 15	6.0 - 6.0	-	-	-	-	-	< 5	< 5	-	-	-	-	-	-	-	-	-	-	-
	BH83-5	2005 03 15	7.5 - 7.5	-	-	-	-	-	< 5	< 5	-	-	-	-	-	-	-	-	-	-	-
BH105	BH105-1	2006 08 07	0.0 - 0.6	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
BH106	BH106-1	2006 08 07	0.0 - 0.6	-	-	-	-	-	-	**151**	-	-	-	-	-	-	-	-	-	-	-
	BH106-2	2006 08 07	1.1 - 1.4	-	-	-	-	-	-	**240**	-	-	-	-	-	-	-	-	-	-	-
BH107	BH107-1	2006 08 07	0.0 - 0.6	-	-	-	-	-	-	81	-	-	-	-	-	-	-	-	-	-	-
	BH107-2	2006 08 07	1.1 - 1.4	-	-	-	-	-	-	29	-	-	-	-	-	-	-	-	-	-	-
BH108	BH108-1	2006 08 07	0.0 - 0.6	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-
BH109	BH109-1	2006 08 07	0.0 - 0.6	-	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-	-
	BH109-2	2006 08 07	1.1 - 1.4	-	-	-	-	-	-	**108**	-	-	-	-	-	-	-	-	-	-	-
BH110	BH110-1	2006 08 07	0.0 - 0.6	-	-	-	-	-	-	**144**	-	-	-	-	-	-	-	-	-	-	-
	GR55	Duplicate	0.0 - 0.6	-	-	-	-	-	-	82	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-	-
	BH110-2	2006 08 07	1.1 - 1.4	-	-	-	-	-	-	**218**	-	-	-	-	-	-	-	-	-	-	-
	GR56	Duplicate	1.1 - 1.4	-	-	-	-	-	-	**255**	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-
BH111	BH111-1	2006 08 07	1.2 - 1.8	-	-	-	-	-	-	**2,540**	-	-	-	-	-	-	-	-	-	-	-
	BH111-3	2006 08 07	4.3 - 4.9	-	-	-	-	-	-	**1,480**	-	-	-	-	-	-	-	-	-	-	-
	BH111-5	2006 08 07	7.3 - 7.9	-	-	-	-	-	-	**2,340**	-	-	-	-	-	-	-	-	-	-	-
	GR57	Duplicate	7.3 - 7.9	-	-	-	-	-	-	**4,080**	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-
	BH111-6	2006 08 07	8.8 - 9.5	-	-	-	-	-	-	**2,500**	-	-	-	-	-	-	-	-	-	-	-
	BH111-8	2006 08 07	11.9 - 12.2	-	-	-	-	-	-	**752**	-	-	-	-	-	-	-	-	-	-	-
BH121	BH121-1	2009 10 16	0.0 - 0.6	-	-	-	-	-	-	12.9	-	-	-	-	-	-	-	-	-	-	-
BH122	BH122-1	2009 10 16	0.0 - 0.6	-	-	-	-	-	-	24.3	-	-	-	-	-	-	-	-	-	-	-
BH123	BH123-1	2009 10 16	0.0 - 0.6	-	-	-	-	-	-	71.3	-	-	-	-	-	-	-	-	-	-	-
BH124	BH124-1	2009 10 16	0.0 - 0.6	-	-	-	-	-	-	60.6	-	-	-	-	-	-	-	-	-	-	-
	FSGR1	Duplicate	0.0 - 0.6	-	-	-	-	-	-	**161**	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	91	-	-	-	-	-	-	-	-	-	-	-
BH125	BH125-1	2009 10 16	0.0 - 0.6	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-
	FSGR2	Duplicate	0.0 - 0.6	-	-	-	-	-	-	20.8	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
BH126	BH126-1	2009 10 16	0.0 - 0.6	-	-	-	-	-	-	28.5	-	-	-	-	-	-	-	-	-	-	-
Federal Guideline																					
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
BC Standard																					
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	n/a	n/a	n/a	200	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Industrial Land Use (IL)[b]				n/a	n/a	n/a	n/a	n/a	1,000	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 4 (Cont'd): Summary of Analytical Results for Soil Salinity

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Soil Salinity																	
				Salinity mg/L	% Saturation %	Saturation pH pH	Saturated Paste Conductivity uS/cm	Theoretical Gypsum Req. t/ha	Saturated Paste Sodium µg/g	Saturated Paste Chloride µg/g	Water Soluble Calcium µg/g	Water Soluble Magnesium µg/g	Water Soluble Potassium µg/g	Water Soluble Sulphate µg/g	Soluble Sodium mg/L	Soluble Chloride mg/L	Soluble Calcium mg/L	Soluble Magnesium mg/L	Soluble Potassium mg/L	Soluble Sulphate mg/L	Sodium Adsorption Ratio None
BH12-02	BH12-02-30-AD05	2012 10 15	26.4 - 26.7	-	31	7.4	1,300	0	70	3	17	5	3	102	227	9	56	17	9	329	***6.82***
	BH12-02-31-AD05	Duplicate	26.4 - 26.7	-	29	7.3	920	0	5	< 2	36	8	4	82	17	6	124	28	13	284	0.36
	QA/QC RPD%			-	*	*	34	*	*	*	72	46	*	22	*	*	76	49	*	15	*
BH13-03	BH13-03-23-AD05	2013 03 17	17.9 - 18.1	-	-	-	-	-	-	**175**	-	-	-	-	-	625	-	-	-	-	-
	BH13-03-25-AD05	2013 03 17	19.5 - 19.8	-	-	-	-	-	-	64	-	-	-	-	-	246	-	-	-	-	-
	BH13-03-33-AD05	2013 03 17	25.7 - 25.9	-	-	-	-	-	-	70	-	-	-	-	-	249	-	-	-	-	-
	BH13-03-A-AD05	Duplicate	25.7 - 25.9	-	-	-	-	-	-	68	-	-	-	-	-	251	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	3	-	-	-	-	-	1	-	-	-	-	-
	BH13-03-34-AD05	2013 03 17	26.2 - 26.5	-	-	-	-	-	-	67	-	-	-	-	-	224	-	-	-	-	-
	BH13-03-35-AD05	2013 03 17	26.8 - 27.0	-	-	-	-	-	-	96	-	-	-	-	-	342	-	-	-	-	-
	BH13-03-36-AD05	2013 03 17	28.1 - 28.4	-	-	-	-	-	-	**162**	-	-	-	-	-	577	-	-	-	-	-
BH13-04	BH13-04-21-AD05	2013 09 22	21.8 - 22.1	-	39.1	-	-	-	13.2	8.8	-	-	-	-	33.8	22.5	-	-	-	-	-
	BH13-04-22-AD05	2013 09 22	22.6 - 22.9	-	38.7	-	-	-	19.2	9.4	-	-	-	-	49.6	24.4	-	-	-	-	-
	BH13-04-30-AD05	2013 09 23	31.5 - 31.8	-	36.8	-	-	-	2.8	4.7	-	-	-	-	7.6	12.9	-	-	-	-	-
BH13-05	BH13-05-02-AD05	2013 09 23	1.1 - 1.4	-	32.1	-	-	-	6.2	9	-	-	-	-	19.4	28.1	-	-	-	-	-
	BH13-05-A	Duplicate	1.1 - 1.4	-	30.2	-	-	-	4.8	6	-	-	-	-	16	19.9	-	-	-	-	-
	QA/QC RPD%			-	6	-	-	-	*	*	-	-	-	-	*	*	-	-	-	-	-
	BH13-05-14-AD05	2013 09 23	11.6 - 11.9	-	42.3	-	-	-	8.1	7.9	-	-	-	-	19	18.7	-	-	-	-	-
	BH13-05-27-AD05	2013 09 24	21.9 - 22.2	-	41.4	-	-	-	37.7	**331**	-	-	-	-	91.2	801	-	-	-	-	-
	BH13-05-28-AD05	2013 09 24	22.6 - 22.9	-	41.7	-	-	-	32.7	**243**	-	-	-	-	78.4	583	-	-	-	-	-
	BH13-05-29-AD05	2013 09 24	23.0 - 23.3	-	45.1	-	-	-	31.7	48.6	-	-	-	-	70.3	108	-	-	-	-	-
	BH13-05-30-AD05	2013 09 24	23.7 - 24.0	-	37.7	-	-	-	19.6	29.2	-	-	-	-	51.9	77.4	-	-	-	-	-
	BH13-05-31-AD05	2013 09 24	24.9 - 25.2	-	47.1	-	-	-	34.6	56.9	-	-	-	-	73.4	121	-	-	-	-	-
BH13-06	BH13-06-31-AD05	2013 09 25	31.7 - 32.0	-	33.2	-	-	-	22.2	87.1	-	-	-	-	66.7	262	-	-	-	-	-
	BH13-06-B	Duplicate	31.7 - 32.0	-	32.7	-	-	-	23.9	92.8	-	-	-	-	72.9	283	-	-	-	-	-
	QA/QC RPD%			-	2	-	-	-	7	6	-	-	-	-	9	8	-	-	-	-	-
	BH13-06-32-AD05	2013 09 25	32.3 - 32.6	-	31.6	-	-	-	17.3	52.1	-	-	-	-	54.7	165	-	-	-	-	-
BH13-07	BH13-07-21-AD05	2013 09 26	17.6 - 17.9	-	42.9	-	-	-	4.7	7.2	-	-	-	-	10.9	16.7	-	-	-	-	-
	BH13-07-22-AD05	2013 09 26	18.7 - 19.0	-	38.9	-	-	-	2.3	3.3	-	-	-	-	6	8.6	-	-	-	-	-
BH14-09	BH14-09-02-AD05	2014 02 15	1.4 - 1.4	-	36.1	-	-	-	5	9.8	-	-	-	-	116	27.1	-	-	-	-	-
	BH14-09-40-AD05	2014 02 17	32.3 - 32.3	-	37.6	-	-	-	< 10	45.7	-	-	-	-	83.4	122	-	-	-	-	-
	BH14-09-41-AD05	2014 02 17	31.2 - 31.2	-	34.8	-	-	-	< 10	33.9	-	-	-	-	89.7	97.3	-	-	-	-	-
BH14-10	BH14-10-02-AD05	2014 02 19	1.4 - 1.4	-	35.6	-	-	-	< 10	15.1	-	-	-	-	53.3	42.4	-	-	-	-	-
	BH14-10-25-AD05	2014 02 19	16.6 - 16.6	-	87.1	-	-	-	< 10	33	-	-	-	-	50.3	37.9	-	-	-	-	-
	BH14-10-35-AD05	2014 02 19	20.6 - 20.6	-	36.4	-	-	-	< 10	21.4	-	-	-	-	50.5	58.7	-	-	-	-	-
	BH14-10-42-AD05	2014 02 20	31.9 - 31.9	-	37	-	-	-	< 10	72.7	-	-	-	-	106	196	-	-	-	-	-
	BH14-10-44-AD05	2014 02 20	33.1 - 33.1	-	41.7	-	-	-	< 10	67.5	-	-	-	-	104	162	-	-	-	-	-
BH14-11	BH14-11-02-AD05	2014 02 21	1.4 - 1.4	-	51.6	-	-	-	< 10	38.1	-	-	-	-	89.1	73.8	-	-	-	-	-
	BH14-11-02A-AD05	Duplicate	1.4 - 1.4	-	45.3	-	-	-	< 10	36.7	-	-	-	-	96.5	81	-	-	-	-	-
	QA/QC RPD%			-	13	-	-	-	*	4	-	-	-	-	8	9	-	-	-	-	-
	BH14-11-47-AD05	2014 02 23	30.5 - 30.5	-	41.8	-	-	-	< 10	20.3	-	-	-	-	55.2	48.7	-	-	-	-	-
BH14-13	BH14-13-01-AD05	2014 02 27	1.1 - 1.1	-	79.9	-	-	-	< 10	5.5	-	-	-	-	16.4	6.9	-	-	-	-	-
	BH14-13-25-AD05	2014 02 27	18.1 - 18.1	-	38.2	-	-	-	< 10	2.2	-	-	-	-	21.9	5.8	-	-	-	-	-
	BH14-13-25A-AD05	Duplicate	18.1 - 18.1	-	36.2	-	-	-	< 10	4.2	-	-	-	-	19.7	11.5	-	-	-	-	-
	QA/QC RPD%			-	5	-	-	-	*	*	-	-	-	-	*	*	-	-	-	-	-
	BH14-13-30-AD05	2014 02 28	22.1 - 22.1	-	35.6	-	-	-	< 10	4.6	-	-	-	-	19.1	13	-	-	-	-	-
	BH14-13-30A-AD05	Duplicate	22.1 - 22.1	-	38.3	-	-	-	< 10	3.8	-	-	-	-	18.5	10	-	-	-	-	-
	QA/QC RPD%			-	7	-	-	-	*	*	-	-	-	-	*	*	-	-	-	-	-
BH14-14	BH14-14-01-AD05	2014 02 27	0.2 - 0.2	-	70.5	-	-	-	< 10	8.6	-	-	-	-	18.3	12.2	-	-	-	-	-
	BH14-14-03-AD05	2014 02 27	1.1 - 1.1	-	63.2	-	-	-	< 10	11.5	-	-	-	-	45	18.2	-	-	-	-	-
	BH14-14-05-AD05	2014 02 27	2.0 - 2.0	-	60.6	-	-	-	< 10	32	-	-	-	-	40.1	52.7	-	-	-	-	-
	BH14-14-19-AD05	2014 02 28	11.4 - 11.4	-	38.6	-	-	-	< 10	4	-	-	-	-	16.8	10.3	-	-	-	-	-
Federal Guideline																					
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
BC Standard																					
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	n/a	n/a	n/a	200	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Industrial Land Use (IL)[b]				n/a	n/a	n/a	n/a	n/a	1,000	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 4 (Cont'd): Summary of Analytical Results for Soil Salinity

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Soil Salinity																	
				Salinity mg/L	% Saturation %	Saturation pH pH	Saturated Paste Conductivity uS/cm	Theoretical Gypsum Req. t/ha	Saturated Paste Sodium µg/g	Saturated Paste Chloride µg/g	Water Soluble Calcium µg/g	Water Soluble Magnesium µg/g	Water Soluble Potassium µg/g	Water Soluble Sulphate µg/g	Soluble Sodium mg/L	Soluble Chloride mg/L	Soluble Calcium mg/L	Soluble Magnesium mg/L	Soluble Potassium mg/L	Soluble Sulphate mg/L	Sodium Adsorption Ratio None
BH14-15	BH14-15-07-AD05	2014 02 28	4.0 - 4.0	-	43.8	-	-	-	< 10	70.2	-	-	-	-	80.1	160	-	-	-	-	-
	BH14-15-11-AD05	2014 03 01	8.4 - 8.4	-	34.1	-	-	-	< 10	37.2	-	-	-	-	104	109	-	-	-	-	-
	BH14-15-13-AD05	2014 03 01	10.5 - 10.5	-	43.5	-	-	-	< 10	30	-	-	-	-	61.8	68.9	-	-	-	-	-
	BH14-15-15-AD05	2014 03 01	12.8 - 12.8	-	63	-	-	-	< 10	**230**	-	-	-	-	101	366	-	-	-	-	-
	BH14-15-18-AD05	2014 03 01	15.4 - 15.4	-	45	-	-	-	7.6	**427**	-	-	-	-	175	950	-	-	-	-	-
	BH14-15-26-AD05	2014 03 01	22.4 - 22.4	-	33.3	-	-	-	< 10	**170**	-	-	-	-	41.4	511	-	-	-	-	-
	BH14-15-27-AD05	2014 03 01	23.8 - 23.8	-	38.8	-	-	-	< 10	33.3	-	-	-	-	63.1	85.8	-	-	-	-	-
	BH14-15-27A-AD05	Duplicate	23.8 - 23.8	-	38.5	-	-	-	< 10	19.5	-	-	-	-	42.6	50.8	-	-	-	-	-
	QA/QC RPD%			-	1	-	-	-	*	52	-	-	-	-	*	51	-	-	-	-	-
	BH14-15-30-AD05	2014 03 01	27.0 - 27.0	-	31.5	-	-	-	< 10	9	-	-	-	-	30	28.7	-	-	-	-	-
BH14-17	BH14-17-17-AD05	2014 03 01	10.7 - 10.7	-	51	-	-	-	< 10	23.4	-	-	-	-	34.9	45.8	-	-	-	-	-
	BH14-17-2-AD05	2014 03 01	1.1 - 1.1	-	37.7	-	-	-	7.9	30.6	-	-	-	-	181	81.3	-	-	-	-	-
	BH14-17-6-AD05	2014 03 01	3.2 - 3.2	-	70	-	-	-	10.3	**134**	-	-	-	-	236	191	-	-	-	-	-
BH14-18	BH14-18-01-AD05	2014 03 02	0.3 - 0.3	-	36.9	-	-	-	18	**253**	-	-	-	-	413	684	-	-	-	-	-
	BH14-18-19-AD05	2014 03 02	20.6 - 20.6	-	36.5	-	-	-	5.3	42.1	-	-	-	-	122	115	-	-	-	-	-
	BH14-18-20-AD05	2014 03 02	22.4 - 22.4	-	42.6	-	-	-	< 10	76.8	-	-	-	-	72.4	180	-	-	-	-	-
	BH14-18-25-AD05	2014 03 02	27.0 - 27.0	-	30.2	-	-	-	< 10	76.6	-	-	-	-	35.2	253	-	-	-	-	-
	BH14-18-25A-AD05	Duplicate	27.0 - 27.0	-	31.4	-	-	-	< 10	72.9	-	-	-	-	33.3	232	-	-	-	-	-
	QA/QC RPD%			-	4	-	-	-	*	5	-	-	-	-	*	9	-	-	-	-	-
	BH14-18-27-AD05	2014 03 02	29.0 - 29.0	-	32.8	-	-	-	< 10	61.2	-	-	-	-	45.4	187	-	-	-	-	-
BH14-19	BH14-19-24-AD05	2014 03 04	18.9 - 18.9	-	112	-	-	-	< 10	**266**	-	-	-	-	12.8	238	-	-	-	-	-
	BH14-19-37-AD05	2014 03 05	31.2 - 31.2	-	77.3	-	-	-	< 10	7.5	-	-	-	-	20.1	9.7	-	-	-	-	-
BH14-20	BH14-20-01-AD05	2014 03 03	1.8 - 1.8	-	38.4	-	-	-	< 10	10.6	-	-	-	-	68.6	27.5	-	-	-	-	-
	BH14-20-06-AD05	2014 03 03	6.9 - 6.9	-	38.9	-	-	-	< 10	10.7	-	-	-	-	61.3	27.5	-	-	-	-	-
	BH14-20-21-AD05	2014 03 03	22.0 - 22.0	-	35.6	-	-	-	< 10	65.1	-	-	-	-	58.8	183	-	-	-	-	-
	BH14-20-23-AD05	2014 03 03	23.9 - 23.9	-	38.3	-	-	-	< 10	4.9	-	-	-	-	20.8	12.8	-	-	-	-	-
	BH14-20-23A-AD05	Duplicate	23.9 - 23.9	-	40.6	-	-	-	< 10	5.1	-	-	-	-	20.5	12.5	-	-	-	-	-
	QA/QC RPD%			-	6	-	-	-	*	*	-	-	-	-	*	*	-	-	-	-	-
BH14-21	BH14-21-02-AD05	2014 03 03	1.2 - 1.4	-	54.1	-	-	-	< 10	5.8	-	-	-	-	31.6	10.7	-	-	-	-	-
	BH14-21-12-AD05	2014 03 03	8.7 - 8.8	-	34.8	-	-	-	< 10	5.1	-	-	-	-	27.5	14.7	-	-	-	-	-
BH14-22	BH14-22-01-AD05	2014 03 04	1.2 - 1.2	-	59.4	-	-	-	140	**3,290**	-	-	-	-	3,210	5,540	-	-	-	-	-
	BH14-22-19-AD05	2014 03 04	26.8 - 26.8	-	41.4	-	-	-	5.7	61.1	-	-	-	-	131	148	-	-	-	-	-
	BH14-22-19A-AD05	Duplicate	26.8 - 26.8	-	41.7	-	-	-	5.7	56.1	-	-	-	-	130	134	-	-	-	-	-
	QA/QC RPD%			-	1	-	-	-	*	9	-	-	-	-	1	10	-	-	-	-	-
	BH14-22-30-AD05	2014 03 04	29.1 - 29.1	-	41.8	-	-	-	< 10	6.7	-	-	-	-	27.8	16	-	-	-	-	-
BH14-23	BH14-23-01-AD05	2014 03 04	0.6 - 0.6	-	43.5	-	-	-	< 10	11.1	-	-	-	-	114	25.5	-	-	-	-	-
	BH14-23-02-AD05	2014 03 04	1.2 - 1.2	-	40.3	-	-	-	5.7	10.3	-	-	-	-	131	25.6	-	-	-	-	-
	BH14-23-15-AD05	2014 03 04	16.3 - 16.3	-	68.1	-	-	-	< 10	**120**	-	-	-	-	97.8	176	-	-	-	-	-
	BH14-23-16-AD05	2014 03 04	17.5 - 17.5	-	58.5	-	-	-	< 10	**122**	-	-	-	-	105	208	-	-	-	-	-
	BH14-23-17-AD05	2014 03 04	19.7 - 19.7	-	54	-	-	-	< 10	51.8	-	-	-	-	47.4	95.9	-	-	-	-	-
	BH14-23-23-AD05	2014 03 04	27.0 - 27.0	-	42.8	-	-	-	< 10	4.6	-	-	-	-	20.1	10.7	-	-	-	-	-
	BH14-23-23A-AD05	Duplicate	27.0 - 27.0	-	40.1	-	-	-	< 10	6.4	-	-	-	-	24.9	15.9	-	-	-	-	-
	QA/QC RPD%			-	7	-	-	-	*	*	-	-	-	-	*	*	-	-	-	-	-
BH14-24	BH14-24-01-AD05	2014 03 05	0.8 - 0.8	-	38.4	-	-	-	86.1	**1,110**	-	-	-	-	1,980	2,880	-	-	-	-	-
	BH14-24-02-AD05	2014 03 05	1.1 - 1.1	-	64.9	-	-	-	59.9	**1,280**	-	-	-	-	1,380	1,970	-	-	-	-	-
	BH14-24-03-AD05	2014 03 05	1.5 - 1.5	-	43.5	-	-	-	23.4	**368**	-	-	-	-	538	847	-	-	-	-	-
	BH14-24-12-AD05	2014 03 05	20.1 - 20.1	-	40	-	-	-	< 10	5.1	-	-	-	-	16	12.7	-	-	-	-	-
BH14-25	BH14-25-01-AD05	2014 03 06	2.0 - 2.0	-	40.1	-	-	-	9.5	42.3	-	-	-	-	219	106	-	-	-	-	-
	BH14-25-06-AD05	2014 03 06	9.9 - 9.9	-	45.8	-	-	-	< 10	7.4	-	-	-	-	68.1	16.2	-	-	-	-	-
	BH14-25-09-AD05	2014 03 06	12.8 - 12.8	-	41.5	-	-	-	< 10	**131**	-	-	-	-	39.3	317	-	-	-	-	-
	BH14-25-09A-AD05	Duplicate	12.8 - 12.8	-	38.3	-	-	-	< 10	**107**	-	-	-	-	39.4	279	-	-	-	-	-
	QA/QC RPD%			-	8	-	-	-	*	20	-	-	-	-	*	13	-	-	-	-	-
Federal Guideline																					
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
BC Standard																					
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	n/a	n/a	n/a	200	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Industrial Land Use (IL)[b]				n/a	n/a	n/a	n/a	n/a	1,000	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 4 (Cont'd): Summary of Analytical Results for Soil Salinity

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Soil Salinity																	
				Salinity mg/L	% Saturation %	Saturation pH pH	Saturated Paste Conductivity uS/cm	Theoretical Gypsum Req. t/ha	Saturated Paste Sodium µg/g	Saturated Paste Chloride µg/g	Water Soluble Calcium µg/g	Water Soluble Magnesium µg/g	Water Soluble Potassium µg/g	Water Soluble Sulphate µg/g	Soluble Sodium mg/L	Soluble Chloride mg/L	Soluble Calcium mg/L	Soluble Magnesium mg/L	Soluble Potassium mg/L	Soluble Sulphate mg/L	Sodium Adsorption Ratio None
BH14-26	BH14-26-23-AD05	2014 03 07	32.8 - 32.8	-	60.6	-	-	-	< 10	30.5	-	-	-	-	59.7	50.3	-	-	-	-	-
BH14-27	BH14-27-01-AD05	2014 03 06	1.5 - 1.5	-	56.1	-	-	-	6.2	33.2	-	-	-	-	142	59.2	-	-	-	-	-
	BH14-27-06-AD05	2014 03 06	7.8 - 7.8	-	57.4	-	-	-	7.4	80.3	-	-	-	-	171	140	-	-	-	-	-
	BH14-27-10-AD05	2014 03 07	12.7 - 12.7	-	46.9	-	-	-	< 10	52.1	-	-	-	-	33.3	111	-	-	-	-	-
	BH14-27-10A-AD05	Duplicate	12.7 - 12.7	-	44.1	-	-	-	< 10	60.2	-	-	-	-	41	137	-	-	-	-	-
	QA/QC RPD%			-	6	-	-	-	*	14	-	-	-	-	*	21	-	-	-	-	-
	BH14-27-11-AD05	2014 03 07	13.1 - 13.1	-	35.6	-	-	-	< 10	3.5	-	-	-	-	16.8	9.7	-	-	-	-	-
BH14-28	BH14-28-07-AD05	2014 03 07	12.8 - 12.8	-	56.9	-	-	-	12	**164**	-	-	-	-	275	287	-	-	-	-	-
	BH14-28-10-AD05	2014 03 07	15.9 - 15.9	-	34.6	-	-	-	< 10	39.1	-	-	-	-	30.5	113	-	-	-	-	-
FIRE14BKSS1	FIRE14BKSS1	2014 03 01	0.0 - 0.5	-	107	-	-	-	< 10	16.8	-	-	-	-	12.1	15.7	-	-	-	-	-
FIRE14BKSS2	FIRE14BKSS2	2014 03 02	0.0 - 0.5	-	226	-	-	-	< 10	47	-	-	-	-	7.7	20.6	-	-	-	-	-
FIRE14BKSS3	FIRE14BKSS3	2014 03 02	0.0 - 0.5	-	263	-	-	-	< 10	52	-	-	-	-	9	19.8	-	-	-	-	-
FIRE14SS4	FIRE14SS4	2014 02 28	0.0 - 0.5	-	280	-	-	-	< 10	**222**	-	-	-	-	8.2	79.2	-	-	-	-	-
FIRE14SS5	FIRE14SS5	2014 03 01	0.0 - 0.5	-	149	-	-	-	< 10	47.5	-	-	-	-	14.5	32	-	-	-	-	-
FIRE14SS6	FIRE14SS6	2014 03 01	0.0 - 0.5	-	179	-	-	-	< 10	44.4	-	-	-	-	9.7	24.8	-	-	-	-	-
FIRE14SS8	FIRE14SS8	2014 03 01	0.0 - 0.5	-	60.1	-	-	-	< 10	13	-	-	-	-	19.1	21.7	-	-	-	-	-
	FIRE14-DUP1	Duplicate	0.0 - 0.5	-	49	-	-	-	< 10	13.1	-	-	-	-	25.1	26.8	-	-	-	-	-
	QA/QC RPD%			-	20	-	-	-	*	1	-	-	-	-	*	*	-	-	-	-	-
RES1	RES1-1	2006 08 07	0.6 - 0.6	-	-	-	-	-	-	94	-	-	-	-	-	-	-	-	-	-	-
RES2	RES2-1	2006 08 07	0.0 - 0.1	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	-	-
RES3	RES3-1	2006 08 07	0.0 - 0.1	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
RES4	RES4-1	2006 08 07	0.0 - 0.1	-	-	-	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-
RES5	RES5-1	2006 08 07	0.2 - 0.2	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-
RES6	RES6-1	2006 08 07	0.0 - 0.1	-	-	-	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-
RES7	RES7-1	2006 08 07	0.0 - 0.1	-	-	-	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-
	GR58b	Duplicate	0.0 - 0.1	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%			-	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-
RES8	RES8-1	2006 08 07	0.0 - 0.1	-	-	-	-	-	-	< 5	-	-	-	-	-	-	-	-	-	-	-
GARDEN1	Garden 1	2006 08 19	0.0 - 0.1	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-
GARDEN2	Garden 2	2006 08 19	0.0 - 0.1	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-
SS14-01	SS14-01-01-AD05	2014 02 20	0.0 - 0.5	-	58.2	-	-	-	< 10	18.5	-	-	-	-	19.2	31.8	-	-	-	-	-
	SS14-01-02-AD05	2014 02 20	0.5 - 1.0	-	60.9	-	-	-	< 10	23.1	-	-	-	-	20.3	38	-	-	-	-	-
	SS14-01-03-AD05	2014 02 20	1.0 - 1.5	-	60.9	-	-	-	< 10	30.3	-	-	-	-	35.8	49.8	-	-	-	-	-
SS14-02	SS14-02-01-AD05	2014 02 20	0.0 - 0.5	-	49.8	-	-	-	12.2	32.7	-	-	-	-	281	65.7	-	-	-	-	-
	SS14-02-02-AD05	2014 02 20	0.5 - 1.0	-	51.8	-	-	-	13.3	40.8	-	-	-	-	306	78.9	-	-	-	-	-
	SS14-02-03-AD05	2014 02 20	1.0 - 1.5	-	45.9	-	-	-	15.7	38.1	-	-	-	-	362	82.9	-	-	-	-	-
SS14-03	SS14-03-01-AD05	2014 02 20	0.0 - 0.5	-	48.5	-	-	-	< 10	11.6	-	-	-	-	57.8	23.9	-	-	-	-	-
	SS14-D1-01-AD05	Duplicate	0.0 - 0.5	-	53.7	-	-	-	< 10	20.8	-	-	-	-	62.7	38.7	-	-	-	-	-
	QA/QC RPD%			-	10	-	-	-	*	57	-	-	-	-	8	*	-	-	-	-	-
	SS14-03-02-AD05	2014 02 20	0.5 - 1.0	-	44.1	-	-	-	< 10	8.4	-	-	-	-	49	18.9	-	-	-	-	-
	SS14-03-03-AD05	2014 02 20	1.0 - 1.5	-	43.2	-	-	-	< 10	10.9	-	-	-	-	51.3	25.3	-	-	-	-	-
SS14-04	SS14-04-01-AD05	2014 02 20	0.0 - 0.5	-	46	-	-	-	< 10	8.9	-	-	-	-	27.1	19.3	-	-	-	-	-
	SS14-04-02-AD05	2014 02 20	0.5 - 1.0	-	42	-	-	-	< 10	15.8	-	-	-	-	46.5	37.7	-	-	-	-	-
	SS14-04-03-AD05	2014 02 20	1.0 - 1.5	-	41	-	-	-	< 10	12.9	-	-	-	-	44.5	31.5	-	-	-	-	-
SS14-05	SS14-05-01-AD05	2014 02 20	0.0 - 0.5	-	41.2	-	-	-	< 10	8.4	-	-	-	-	24.8	20.3	-	-	-	-	-
	SS14-05-02-AD05	2014 02 20	0.5 - 1.0	-	38.2	-	-	-	< 10	8.4	-	-	-	-	28.4	22	-	-	-	-	-
	SS14-05-03-AD05	2014 02 20	1.0 - 1.5	-	38.5	-	-	-	< 10	7.1	-	-	-	-	25.6	18.3	-	-	-	-	-
SS14-06	SS14-06-01-AD05	2014 02 20	0.0 - 0.5	-	39.7	-	-	-	< 10	22	-	-	-	-	32.9	55.4	-	-	-	-	-
	SS14-06-02-AD05	2014 02 20	0.5 - 1.0	-	42.9	-	-	-	< 10	24.1	-	-	-	-	48.9	56.2	-	-	-	-	-
	SS14-06-03-AD05	2014 02 20	1.0 - 1.5	-	35.5	-	-	-	< 10	18.4	-	-	-	-	35.1	51.8	-	-	-	-	-
SS14-07	SS14-07-01-AD05	2014 02 20	0.0 - 0.5	-	34	-	-	-	< 10	11.2	-	-	-	-	47.6	32.8	-	-	-	-	-
	SS14-07-02-AD05	2014 02 20	0.5 - 1.0	-	38.5	-	-	-	< 10	11.6	-	-	-	-	47.4	30.1	-	-	-	-	-
	SS14-07-03-AD05	2014 02 20	1.0 - 1.5	-	33.9	-	-	-	< 10	9.1	-	-	-	-	41.9	26.9	-	-	-	-	-
Federal Guideline																					
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
BC Standard																					
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	n/a	n/a	n/a	200	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Industrial Land Use (IL)[b]				n/a	n/a	n/a	n/a	n/a	1,000	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 4 (Cont'd): Summary of Analytical Results for Soil Salinity

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Soil Salinity																	
				Salinity mg/L	% Saturation %	Saturation pH pH	Saturated Paste Conductivity uS/cm	Theoretical Gypsum Req. t/ha	Saturated Paste Sodium µg/g	Saturated Paste Chloride µg/g	Water Soluble Calcium µg/g	Water Soluble Magnesium µg/g	Water Soluble Potassium µg/g	Water Soluble Sulphate µg/g	Soluble Sodium mg/L	Soluble Chloride mg/L	Soluble Calcium mg/L	Soluble Magnesium mg/L	Soluble Potassium mg/L	Soluble Sulphate mg/L	Sodium Adsorption Ratio None
SS14-08	SS14-08-01-AD05	2014 02 20	0.0 - 0.5	-	43.5	-	-	-	< 10	9	-	-	-	-	38.9	20.8	-	-	-	-	-
	SS14-08-02-AD05	2014 02 20	0.5 - 1.0	-	43.9	-	-	-	< 10	9.4	-	-	-	-	39.6	21.4	-	-	-	-	-
	SS14-08-03-AD05	2014 02 20	1.0 - 1.5	-	34.5	-	-	-	< 10	6.5	-	-	-	-	34.1	18.9	-	-	-	-	-
	SS14-D2-01-AD05	Duplicate	1.0 - 1.5	-	41.5	-	-	-	< 10	10.1	-	-	-	-	34.2	24.3	-	-	-	-	-
	QA/QC RPD%			-	18	-	-	-	*	*	-	-	-	-	*	*	-	-	-	-	-
SS14-10	SS14-10-01-AD05	2014 02 20	0.0 - 0.5	-	37.4	-	-	-	< 10	6.8	-	-	-	-	25.7	18.2	-	-	-	-	-
	SS14-10-02-AD05	2014 02 20	0.5 - 1.0	-	34.5	-	-	-	< 10	6.5	-	-	-	-	26	18.8	-	-	-	-	-
	SS14-10-03-AD05	2014 02 20	1.0 - 1.5	-	35	-	-	-	< 10	5.8	-	-	-	-	28.9	16.6	-	-	-	-	-
SS14-11	SS14-11-01-AD05	2014 02 20	0.0 - 0.5	-	46.4	-	-	-	< 10	23.7	-	-	-	-	84.2	51	-	-	-	-	-
	SS14-11-02-AD05	2014 02 20	0.5 - 1.0	-	42.3	-	-	-	< 10	27.5	-	-	-	-	94.8	65	-	-	-	-	-
	SS14-11-03-AD05	2014 02 20	1.0 - 1.5	-	44.4	-	-	-	7.4	23.2	-	-	-	-	170	52.3	-	-	-	-	-
SS14-12	SS14-12-01-AD05	2014 02 20	0.0 - 0.5	-	54.1	-	-	-	< 10	14.1	-	-	-	-	23.7	26.1	-	-	-	-	-
	SS14-12-02-AD05	2014 02 20	0.5 - 1.0	-	42.4	-	-	-	< 10	12.7	-	-	-	-	21.1	30	-	-	-	-	-
	SS14-D4-01-AD05	Duplicate	0.5 - 1.0	-	42.8	-	-	-	< 10	10.3	-	-	-	-	20.1	24	-	-	-	-	-
	QA/QC RPD%			-	1	-	-	-	*	21	-	-	-	-	*	*	-	-	-	-	-
	SS14-12-03-AD05	2014 02 20	1.0 - 1.5	-	44.6	-	-	-	< 10	10.8	-	-	-	-	19	24.2	-	-	-	-	-
SS14-13	SS14-13-01-AD05	2014 02 20	0.0 - 0.5	-	50.6	-	-	-	< 10	12.7	-	-	-	-	22.5	25	-	-	-	-	-
	SS14-13-02-AD05	2014 02 20	0.5 - 1.0	-	54.4	-	-	-	< 10	9.8	-	-	-	-	13.9	18	-	-	-	-	-
	SS14-13-03-AD05	2014 02 20	1.0 - 1.5	-	39.6	-	-	-	< 10	12.3	-	-	-	-	23	31.1	-	-	-	-	-
SS14-14	SS14-14-01-AD05	2014 02 20	0.0 - 0.5	-	39.9	-	-	-	< 10	12.8	-	-	-	-	24.6	32.1	-	-	-	-	-
	SS14-14-02-AD05	2014 02 20	0.5 - 1.0	-	39.8	-	-	-	< 10	12.2	-	-	-	-	24	30.7	-	-	-	-	-
	SS14-14-03-AD05	2014 02 20	1.0 - 1.5	-	40.3	-	-	-	< 10	12.7	-	-	-	-	23	31.5	-	-	-	-	-
	SS14-D5-01-AD05	Duplicate	1.0 - 1.5	-	44.9	-	-	-	< 10	12.3	-	-	-	-	21.9	27.3	-	-	-	-	-
	QA/QC RPD%			-	11	-	-	-	*	3	-	-	-	-	*	*	-	-	-	-	-
SS14-15	SS14-15-01-AD05	2014 02 21	0.0 - 0.5	-	66.4	-	-	-	141	**3,800**	-	-	-	-	3,240	5,720	-	-	-	-	-
	SS14-15-02-AD05	2014 02 21	0.5 - 1.0	-	65.6	-	-	-	100	**3,340**	-	-	-	-	2,300	5,100	-	-	-	-	-
	SS14-15-03-AD05	2014 02 21	1.0 - 1.5	-	51	-	-	-	72.8	**1,770**	-	-	-	-	1,670	3,470	-	-	-	-	-
	SS14-D6-01-AD05	Duplicate	1.0 - 1.5	-	49.1	-	-	-	62	**1,320**	-	-	-	-	1,430	2,680	-	-	-	-	-
	QA/QC RPD%			-	4	-	-	-	16	29	-	-	-	-	15	26	-	-	-	-	-
SS14-17	SS14-17-01-AD05	2014 02 21	0.0 - 0.5	-	52.5	-	-	-	< 10	72.9	-	-	-	-	94.7	139	-	-	-	-	-
	SS14-17-02-AD05	2014 02 21	0.5 - 1.0	-	55	-	-	-	5.1	**139**	-	-	-	-	117	252	-	-	-	-	-
	SS14-17-03-AD05	2014 02 21	1.0 - 1.5	-	51	-	-	-	< 10	64.7	-	-	-	-	69	127	-	-	-	-	-
SS14-18	SS14-18-01-AD05	2014 02 21	0.0 - 0.5	-	41.8	-	-	-	< 10	15.2	-	-	-	-	48.3	36.4	-	-	-	-	-
	SS14-18-02-AD05	2014 02 21	0.5 - 1.0	-	53.6	-	-	-	< 10	18	-	-	-	-	40.1	33.6	-	-	-	-	-
	SS14-18-03-AD05	2014 02 21	1.0 - 1.5	-	49.2	-	-	-	< 10	19.1	-	-	-	-	40.2	38.9	-	-	-	-	-
SS14-19	SS14-19-01-AD05	2014 02 21	0.0 - 0.5	-	42.3	-	-	-	47.8	**1,110**	-	-	-	-	1,100	2,620	-	-	-	-	-
	SS14-19-02-AD05	2014 02 21	0.5 - 1.0	-	44.3	-	-	-	28.1	**1,080**	-	-	-	-	646	2,430	-	-	-	-	-
	SS14-19-03-AD05	2014 02 21	1.0 - 1.5	-	43.6	-	-	-	27.3	**918**	-	-	-	-	629	2,110	-	-	-	-	-
SS14-20	SS14-20-01-AD05	2014 02 21	0.0 - 0.5	-	49.5	-	-	-	10.2	47.7	-	-	-	-	234	96.3	-	-	-	-	-
	SS14-20-02-AD05	2014 02 21	0.5 - 1.0	-	44.8	-	-	-	10.8	40.3	-	-	-	-	248	89.9	-	-	-	-	-
	SS14-20-03-AD05	2014 02 21	1.0 - 1.5	-	47.7	-	-	-	7.2	23.5	-	-	-	-	166	49.3	-	-	-	-	-
SS14-21	SS14-21-01-AD05	2014 02 21	0.0 - 0.5	-	35.2	-	-	-	8.5	39.1	-	-	-	-	196	111	-	-	-	-	-
	SS14-21-02-AD05	2014 02 21	0.5 - 1.0	-	40.8	-	-	-	7.6	34.9	-	-	-	-	174	85.5	-	-	-	-	-
	SS14-21-03-AD05	2014 02 21	1.0 - 1.5	-	37.3	-	-	-	8.3	33.1	-	-	-	-	192	88.5	-	-	-	-	-
Federal Guideline																					
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
BC Standard																					
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	n/a	n/a	n/a	200	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Industrial Land Use (IL)[b]				n/a	n/a	n/a	n/a	n/a	1,000	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 4 (Cont'd): Summary of Analytical Results for Soil Salinity

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Soil Salinity																	
				Salinity mg/L	% Saturation %	Saturation pH pH	Saturated Paste Conductivity uS/cm	Theoretical Gypsum Req. t/ha	Saturated Paste Sodium µg/g	Saturated Paste Chloride µg/g	Water Soluble Calcium µg/g	Water Soluble Magnesium µg/g	Water Soluble Potassium µg/g	Water Soluble Sulphate µg/g	Soluble Sodium mg/L	Soluble Chloride mg/L	Soluble Calcium mg/L	Soluble Magnesium mg/L	Soluble Potassium mg/L	Soluble Sulphate mg/L	Sodium Adsorption Ratio None
SS14-22	SS14-22-01-AD05	2014 02 21	0.0 - 0.5	-	35.9	-	-	-	< 10	10.8	-	-	-	-	28.2	30	-	-	-	-	-
	SS14-D8-01-AD05	Duplicate	0.0 - 0.5	-	39.5	-	-	-	< 10	12.2	-	-	-	-	23.6	30.8	-	-	-	-	-
	QA/QC RPD%			-	10	-	-	-	*	12	-	-	-	-	*	*	-	-	-	-	-
	SS14-22-02-AD05	2014 02 21	0.5 - 1.0	-	44.8	-	-	-	< 10	7.9	-	-	-	-	16	17.6	-	-	-	-	-
	SS14-22-03-AD05	2014 02 21	1.0 - 1.5	-	48.5	-	-	-	< 10	12.8	-	-	-	-	20.9	26.3	-	-	-	-	-
SS14-23	SS14-23-01-AD05	2014 02 21	0.0 - 0.5	-	44	-	-	-	< 10	10	-	-	-	-	19.6	22.8	-	-	-	-	-
	SS14-23-02-AD05	2014 02 21	0.5 - 1.0	-	50.4	-	-	-	< 10	11.6	-	-	-	-	19.3	23.1	-	-	-	-	-
	SS14-23-03-AD05	2014 02 21	1.0 - 1.5	-	68.4	-	-	-	< 10	19.2	-	-	-	-	18.2	28	-	-	-	-	-
SS14-24	SS14-24-01-AD05	2014 02 21	0.0 - 0.5	-	57.3	-	-	-	5.2	**115**	-	-	-	-	121	201	-	-	-	-	-
	SS14-24-02-AD05	2014 02 21	0.5 - 1.0	-	48	-	-	-	< 10	85	-	-	-	-	99.7	177	-	-	-	-	-
	SS14-24-03-AD05	2014 02 21	1.0 - 1.5	-	44.6	-	-	-	< 10	35.9	-	-	-	-	68.8	80.5	-	-	-	-	-
BH17-47	BH17-47-06	2017 06 15	6.4 - 6.6	-	34.1	-	-	-	11	10	-	-	-	20	-	28	-	-	-	60	-
BH17-49	BH17-49-09	2017 06 13	7.5 - 7.6	-	29.0	-	-	-	51	-	-	-	-	10	-	-	-	-	-	33	-
BH17-50	BH17-50-05	2017 06 13	4.4 - 4.6	-	29.2	-	-	-	265	-	-	-	-	9	-	-	-	-	-	30	-
BH17-51	BH17-51-01	2017 06 13	0.4 - 0.6	-	32.0	-	-	-	**1,990**	-	-	-	-	23	-	-	-	-	-	72	-
	BH17-51-02	2017 06 13	1.4 - 1.6	-	36.0	-	-	-	**3,250**	-	-	-	-	32	-	-	-	-	-	90	-
BH17-53	BH17-53-03	2017 06 13	2.4 - 2.6	-	26.0	-	-	-	**1,140**	**1,890**	-	-	-	19	-	7,260	-	-	-	72	-
	BH17-53-07	2017 06 13	5.5 - 5.6	-	24.1	-	-	-	**1,190**	**2,050**	-	-	-	16	-	8,490	-	-	-	66	-
BH17-54	BH17-54-04	2017 06 13	3.5 - 3.7	-	23.1	-	-	-	22	30	-	-	-	8	-	132	-	-	-	33	-
	BH17-54-06	2017 06 13	5.5 - 5.6	-	24.0	-	-	-	16	22	-	-	-	8	-	91	-	-	-	33	-
BH17-55	BH17-55-04	2017 06 13	2.4 - 2.6	-	22.0	-	-	-	11	11	-	-	-	10	-	48	-	-	-	45	-
	BH17-55-11	2017 06 13	7.5 - 7.6	-	28.0	-	-	-	11	6	-	-	-	9	-	20	-	-	-	33	-
BH17-56	BH17-56-07	2017 06 14	5.5 - 5.6	-	22.1	-	-	-	12	13	-	-	-	7	-	57	-	-	-	33	-
	BH17-56-09	2017 06 14	6.4 - 6.6	-	28.5	-	-	-	17	16	-	-	-	9	-	56	-	-	-	30	-
BH17-58	BH17-58-06	2017 06 14	4.4 - 4.6	-	22.7	-	-	-	16	6	-	-	-	19	-	27	-	-	-	84	-
BH17-61	BH17-61-09	2017 06 14	5.9 - 6.1	-	24.6	-	-	-	5	42	-	-	-	6	-	170	-	-	-	24	-
BH17-63	BH17-63-07	2017 06 14	4.4 - 4.6	-	29.6	-	-	-	4	44	-	-	-	4	-	150	-	-	-	12	-
BH17-65	BH17-65-05	2017 06 15	3.7 - 3.8	-	23.4	-	-	-	26	7	-	-	-	31	-	28	-	-	-	132	-
	BH17-65-06	Duplicate	3.7 - 3.8	-	24.1	-	-	-	26	7	-	-	-	30	-	30	-	-	-	123	-
	QA/QC RPD%			-	*	-	-	-	0	*	-	-	-	3	-	7	-	-	-	7	-
BH17-67	BH17-67-16	2017 06 15	10.5 - 10.7	-	46.3	-	-	-	4	2	-	-	-	25	-	5	-	-	-	54	-
	BH17-67-17	2017 06 15	11.3 - 11.4	-	51.5	-	-	-	5	3	-	-	-	-	-	5	-	-	-	-	-
	BH17-67-18	Duplicate	11.3 - 11.4	-	49.5	-	-	-	4	2	-	-	-	-	-	5	-	-	-	-	-
	QA/QC RPD%			-	*	-	-	-	*	*	-	-	-	-	-	*	-	-	-	-	-
	BH17-67-19	2017 06 15	12.0 - 12.2	-	35.7	-	-	-	4	< 2	-	-	-	-	-	5	-	-	-	-	-
BH17-68	BH17-68-19	2017 06 15	13.6 - 13.7	-	28.0	-	-	-	2	< 2	-	-	-	-	-	6	-	-	-	-	-
	BH17-68-21	2017 06 15	15.1 - 15.2	-	28.1	-	-	-	2	< 2	-	-	-	-	-	5	-	-	-	-	-
	BH17-68-24	2017 06 15	16.3 - 16.5	-	26.6	-	-	-	< 2	< 2	-	-	-	-	-	5	-	-	-	-	-
Federal Guideline																					
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
BC Standard																					
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	n/a	n/a	n/a	200	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Industrial Land Use (IL)[b]				n/a	n/a	n/a	n/a	n/a	1,000	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17C227642, 17V228326, 17V228340, 17Y227125.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 5: Summary of Analytical Results for VOCs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Volatile Organic Compounds																																							
				Bromo benzene µg/g	Bromo dichloro methane µg/g	Bromo form µg/g	Bromo methane µg/g	1,3-Butadiene µg/g	Carbon tetra chloride µg/g	Chloro benzene µg/g	Chloro ethane µg/g	Chloro form µg/g	Chloro methane µg/g	Dibromo chloro methane µg/g	1,2-Di bromo ethane µg/g	1,2-Di chloro benzene µg/g	1,3-Di chloro benzene µg/g	1,4-Di chloro benzene µg/g	Dichloro difluoro methane µg/g	1,1-Dichloro ethane µg/g	1,2-Dichloro ethane µg/g	1,1-Dichloro ethylene µg/g	cis-1,2-Dichloro ethylene µg/g	trans-1,2-Dichloro ethylene µg/g	Dichloro methane µg/g	1,2-Dichloro propane µg/g	cis-1,3-Dichloro propene µg/g	trans-1,3-Dichloro propene µg/g	Hexa chloro butadiene µg/g	2-Hexa none µg/g	Methyl ethyl ketone µg/g	Methyl isobutyl ketone µg/g	Methylene bromide µg/g	1,1,1,2-Tetra chloroethane µg/g	1,1,2,2-Tetra chloroethane µg/g	Tetra chloro ethylene µg/g	1,2,3-Tri chloro benzene µg/g	1,2,4-Tri chloro benzene µg/g	1,1,1-Tri chloro ethane µg/g	1,1,2-Tri chloro ethane µg/g	Trichloro ethylene µg/g	Trichloro fluoro methane µg/g	Vinyl chloride µg/g
TP-35	FS-35-1.0	2002 10 05	1.0 - 1.0	-	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	-	-	-	-	-	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SS4	SS4	2005 11 08	0.0 - 0.1	-	< 0.01	< 0.01	< 0.04	-	< 0.01	< 0.01	< 0.02	< 0.01	< 0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.3	< 0.01	< 0.01	< 0.01	-	< 0.5	< 0.5	< 0.2	< 0.01	-	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02
BH13-04	BH13-04-21-AD05	2013 09 22	21.8 - 22.1	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-04-22-AD05	2013 09 22	22.6 - 22.9	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-04-30-AD05	2013 09 23	31.5 - 31.8	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
BH13-05	BH13-05-02-AD05	2013 09 23	1.1 - 1.4	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.074	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-05-A	Duplicate	1.1 - 1.4	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.168	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*	*	*	*	*	*
	BH13-05-27-AD05	2013 09 24	21.9 - 22.2	< 0.4	< 0.22	< 0.1	< 0.6	< 0.2	< 0.05	< 0.24	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-05-28-AD05	2013 09 24	22.6 - 22.9	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.2	< 0.2	< 0.1	< 0.2	< 0.1	< 0.076	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-05-29-AD05	2013 09 24	23.0 - 23.3	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-05-30-AD05	2013 09 24	23.7 - 24.0	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-05-31-AD05	2013 09 24	24.9 - 25.2	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
BH13-07	BH13-07-01-AD05	2013 09 25	0.3 - 0.6	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.94	< 0.2	< 0.1	< 0.2	< 0.1	< 0.13	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-07-02-AD05	2013 09 25	1.3 - 1.6	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-07-21-AD05	2013 09 26	17.6 - 17.9	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH13-07-22-AD05	2013 09 26	18.7 - 19.0	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	< 0.4	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
BH14-15	BH14-15-15-AD05	2014 03 01	12.8 - 12.8	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.114	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
BH14-19	BH14-19-41-AD05	2014 03 05	32.8 - 32.8	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH14-19-41A-AD05	Duplicate	32.8 - 32.8	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	-	*	*	*	*	*	*	*	*	*	-	-	-	-	*	*	*	*	-	-	*	*	*	*	*
BH14-23	BH14-23-01-AD05	2014 03 04	0.6 - 0.6	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.23	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH14-23-15-AD05	2014 03 04	16.3 - 16.3	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH14-23-16-AD05	2014 03 04	17.5 - 17.5	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
	BH14-23-17-AD05	2014 03 04	19.7 - 19.7	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
BH14-24	BH14-24-18-AD05	2014 03 05	24.7 - 24.7	< 0.4	< 0.1	< 0.1	< 0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.1	< 0.2	< 0.1	-	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.05	< 0.1	< 0.1	-	-	-	-	< 0.4	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.018	< 0.4	< 0.12
Federal Guideline																																											
CCME CEQG Residential Coarse-Grained (RL)[a]				n/a	n/a	n/a	n/a	n/a	5	1	n/a	5	n/a	n/a	n/a	1	1	1	n/a	5	5	5	n/a	n/a	5	5	5	5	n/a	n/a	n/a	n/a	n/a	n/a	5	0.2	2	2	5	5	0.01	n/a	n/a
BC Standard																																											
CSR Low Density Residential Land Use (RLLD)[b]				150	100	300	20	2	5	1	n/a	5	n/a	85	3.5	1	1	1	3,000	5	5	5	5	5	5	5	5	5	15	80	9,500	n/a	n/a	250	35	2.5	2	2	5	5	0.3	4,500	0.95
CSR Industrial Land Use (IL)[b]				2,000	550	4,000	300	9.5	50	10	n/a	50	n/a	400	15	10	10	10	45,000	50	50	50	50	50	50	50	50	50	250	1,000	150,000	n/a	n/a	1,500	150	2.5	10	10	50	50	0.3	70,000	45

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

TABLE 6: Summary of Analytical Results for PCBs in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	PCBs			
				Arochlor 1242 µg/g	Arochlor 1248 µg/g	Arochlor 1254 µg/g	Arochlor 1260 µg/g
SS4	SS4	2005 11 08	0.0 - 0.1	< 0.03	< 0.03	< 0.03	< 0.03
Federal Guideline							
CCME CEQG Residential Coarse-Grained (RL)[a,b]				1.3	1.3	1.3	1.3
BC Standard							
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[a,c]				1.5	1.5	1.5	1.5
CSR Industrial Land Use (IL) (>3.0m)[a,c]				35	35	35	35

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Guideline is for Total PCBs. It has been conservatively applied to individual arochlor mixtures.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

TABLE 7: Summary of Analytical Results for Glycols in Soil

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Glycols				
				Propylene glycol µg/g	Ethylene glycol µg/g	Diethylene glycol µg/g	Triethylene glycol µg/g	Tetraethylene glycol µg/g
SS4	SS4	2005 11 08	0.0 - 0.1	< 10	< 10	< 10	< 20	-
BH13-04	BH13-04-21-AD05	2013 09 22	21.8 - 22.1	-	< 20[a]	< 20	< 20	< 20
	BH13-04-22-AD05	2013 09 22	22.6 - 22.9	-	< 20[a]	< 20	< 20	< 20
	BH13-04-30-AD05	2013 09 23	31.5 - 31.8	-	< 20[a]	< 20	< 20	< 20
BH13-05	BH13-05-02-AD05	2013 09 23	1.1 - 1.4	-	< 20[a]	< 20	< 20	< 20
	BH13-05-A	Duplicate	1.1 - 1.4	-	< 20[a]	< 20	< 20	< 20
	QA/QC RPD%			-	*	*	*	*
	BH13-05-27-AD05	2013 09 24	21.9 - 22.2	< 20	< 20[a]	< 20	< 20	< 20
	BH13-05-28-AD05	2013 09 24	22.6 - 22.9	< 20	< 20[a]	< 20	< 20	< 20
	BH13-05-29-AD05	2013 09 24	23.0 - 23.3	< 20	< 20[a]	< 20	< 20	< 20
	BH13-05-30-AD05	2013 09 24	23.7 - 24.0	< 20	< 20[a]	< 20	< 20	< 20
	BH13-05-31-AD05	2013 09 24	24.9 - 25.2	< 20	< 20[a]	< 20	< 20	< 20
BH13-07	BH13-07-01-AD05	2013 09 25	0.3 - 0.6	< 20	< 20[a]	< 20	< 20	< 20
	BH13-07-02-AD05	2013 09 25	1.3 - 1.6	< 20	< 20[a]	< 20	< 20	< 20
	BH13-07-21-AD05	2013 09 26	17.6 - 17.9	< 20	< 20[a]	< 20	< 20	< 20
	BH13-07-22-AD05	2013 09 26	18.7 - 19.0	-	< 20[a]	< 20	< 20	< 20
BH14-09	BH14-09-41-AD05	2014 02 17	31.2 - 31.2	< 20	< 20[a]	< 20	< 20	< 20
BH14-10	BH14-10-42-AD05	2014 02 20	31.9 - 31.9	< 20	< 20[a]	< 20	< 20	< 20
	BH14-10-44-AD05	2014 02 20	33.1 - 33.1	< 20	< 20[a]	< 20	< 20	< 20
BH14-11	BH14-11-02-AD05	2014 02 21	1.4 - 1.4	< 20	< 20[a]	< 20	< 20	< 20
	BH14-11-02A-AD05	Duplicate	1.4 - 1.4	< 20	< 20[a]	< 20	< 20	< 20
	QA/QC RPD%			*	*	*	*	*
BH14-13	BH14-13-30-AD05	2014 02 28	22.1 - 22.1	< 20	< 20[a]	< 20	< 20	< 20
	BH14-13-30A-AD05	Duplicate	22.1 - 22.1	< 20	< 20[a]	< 20	< 20	< 20
	QA/QC RPD%			*	*	*	*	*
BH14-14	BH14-14-19-AD05	2014 02 28	11.4 - 11.4	< 20	< 20[a]	< 20	< 20	< 20
BH14-15	BH14-15-15-AD05	2014 03 01	12.8 - 12.8	< 20	< 20[a]	< 20	< 20	< 20
BH14-19	BH14-19-41-AD05	2014 03 05	32.8 - 32.8	< 20	< 20[a]	< 20	< 20	< 20
	BH14-19-41A-AD05	Duplicate	32.8 - 32.8	< 20	< 20[a]	< 20	< 20	< 20
	QA/QC RPD%			*	*	*	*	*
BH14-20	BH14-20-21-AD05	2014 03 03	22.0 - 22.0	< 20	< 20[a]	< 20	< 20	< 20
BH14-23	BH14-23-01-AD05	2014 03 04	0.6 - 0.6	< 20	< 20[a]	< 20	< 20	< 20
	BH14-23-15-AD05	2014 03 04	16.3 - 16.3	< 20	< 20[a]	< 20	< 20	< 20
	BH14-23-16-AD05	2014 03 04	17.5 - 17.5	< 20	< 20[a]	< 20	< 20	< 20
	BH14-23-17-AD05	2014 03 04	19.7 - 19.7	< 20	< 20[a]	< 20	< 20	< 20
	BH14-23-23-AD05	2014 03 04	27.0 - 27.0	< 20	< 20[a]	< 20	< 20	< 20
	BH14-23-23A-AD05	Duplicate	27.0 - 27.0	< 20	< 20[a]	< 20	< 20	< 20
	QA/QC RPD%			*	*	*	*	*
BH14-24	BH14-24-12-AD05	2014 03 05	20.1 - 20.1	< 20	< 20[a]	< 20	< 20	< 20
	BH14-24-18-AD05	2014 03 05	24.7 - 24.7	< 20	< 20[a]	< 20	< 20	< 20
Federal Guideline								
CCME CEQG Residential Coarse-Grained (RL)[b]				n/a	960	n/a	n/a	n/a
BC Standard								
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				n/a	10	n/a	30,000	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]				n/a	10	n/a	450,000	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhala
Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

TABLE 8: Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 1								
EXC16-1-096	2016 11 13	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616608.0	604107.5	2.5	831.1	15
EXC16-1-097	2016 11 13	North	SAND, fine grained, light brown, damp.	6616608.1	604107.4	1.5	832.2	15
EXC16-1-D9	2016 11 13	North	Blind field duplicate of EXC16-1-097.	6616608.1	604107.4	1.5	832.2	15
EXC16-1-098	2016 11 13	North	SAND, fine grained, light brown, damp.	6616607.9	604107.7	0.5	832.9	15
EXC16-1-099	2016 11 13	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616607.1	604098.3	2.5	831.1	10
EXC16-1-100	2016 11 13	North	SAND, fine grained, light brown, damp.	6616607.1	604098.3	1.5	832.2	10
EXC16-1-101	2016 11 13	North	SAND, fine grained, light brown, damp.	6616607.4	604097.8	0.5	832.9	5
EXC16-1-102	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616600.8	604101.4	2.5	831.0	10
EXC16-1-103	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616600.2	604102.1	1.5	832.0	5
EXC16-1-104	2016 11 13	West	SAND, fine grained, light brown, damp.	6616599.6	604102.4	0.5	832.9	10
EXC16-1-105	2016 11 13	West	SAND, fine grained, light brown, damp.	6616592.5	604108.3	2.5	831.0	15
EXC16-1-106	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616592.3	604108.4	1.5	831.8	10
EXC16-1-D10	2016 11 13	West	Blind field duplicate of EXC16-1-106.	6616592.3	604108.4	1.5	831.8	10
EXC16-1-107	2016 11 13	West	SAND, fine grained, light brown, damp.	6616592.1	604108.6	0.5	832.9	5
EXC16-1-108	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616584.2	604113.1	2.5	831.0	5
EXC16-1-109	2016 11 13	West	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616584.1	604113.0	1.5	831.9	0
EXC16-1-110	2016 11 13	West	SAND, fine grained, light brown, damp, hydrocarbon-like odour.	6616583.9	604112.8	0.5	832.8	0
EXC16-1-111	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616574.3	604114.2	2.5	831.3	0
EXC16-1-112	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616574.3	604114.0	1.5	832.0	0
EXC16-1-113	2016 11 13	West	SAND, fine grained, light brown, damp.	6616574.4	604113.8	0.5	833.1	0
EXC16-1-114	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616564.7	604112.9	2.5	831.4	0
EXC16-1-115	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616565.1	604112.9	1.5	832.2	0
EXC16-1-116	2016 11 13	West	SAND, fine grained, light brown, damp.	6616565.4	604112.4	0.5	833.2	10
EXC16-1-D11	2016 11 13	West	Blind field duplicate of EXC16-1-116.	6616565.4	604112.4	0.5	833.2	10
EXC16-1-117	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616554.6	604112.6	2.5	831.5	10
EXC16-1-D12	2016 11 13	West	Blind field duplicate of EXC16-1-117.	6616554.6	604112.6	2.5	831.5	10
EXC16-1-118	2016 11 13	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616554.6	604112.4	1.5	832.3	5
EXC16-1-119	2016 11 13	West	SAND, fine grained, light brown, damp.	6616555.3	604112.1	0.5	833.2	10
EXC16-1-120	2016 11 14	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616548.9	604116.1	2.5	830.7	0
EXC16-1-121	2016 11 14	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616548.0	604115.9	1.5	831.6	0
EXC16-1-122	2016 11 14	West	SAND, fine grained, light brown, damp.	6616547.8	604115.9	0.5	832.9	0
EXC16-1-123	2016 11 14	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616550.3	604117.3	3.0	830.4	0
EXC16-1-124	2016 11 14	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616558.1	604117.1	3.0	830.6	10
EXC16-1-D13	2016 11 14	Floor	Blind field duplicate of EXC16-1-124.	6616558.1	604117.1	3.0	830.6	10
EXC16-1-125	2016 11 14	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616605.4	604101.6	3.0	830.4	0
EXC16-1-126	2016 11 14	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616607.7	604118.1	2.5	831.0	10
EXC16-1-127	2016 11 14	North	SAND, fine grained, light brown, damp.	6616607.9	604117.2	1.5	831.9	5
EXC16-1-128	2016 11 14	North	SAND, fine grained, light brown, damp.	6616607.8	604117.2	0.5	832.9	5
EXC16-1-142	2016 11 16	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616607.7	604107.5	3.5	830.1	10
EXC16-1-143	2016 11 16	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616607.1	604117.1	3.5	830.2	20
EXC16-1-144	2016 11 16	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616612.5	604126.4	3.5	830.2	30
EXC16-1-145	2016 11 16	North	SAND, fine grained, light brown, damp.	6616612.8	604126.0	2.5	831.0	30
EXC16-1-146	2016 11 16	North	SAND, fine grained, light brown, damp.	6616613.0	604125.8	1.5	831.8	20
EXC16-1-147	2016 11 16	North	SAND, fine grained, light brown, damp.	6616612.9	604126.1	0.5	832.8	40
EXC16-1-148	2016 11 16	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616620.0	604137.1	3.0	829.7	70
EXC16-1-149	2016 11 16	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616620.7	604132.2	2.5	830.8	40
EXC16-1-150	2016 11 16	North	SAND, medium grained, light brown, damp.	6616621.2	604132.2	1.5	831.7	10
EXC16-1-151	2016 11 16	North	SAND, fine grained, light brown, damp.	6616621.5	604132.3	0.5	832.7	10
EXC16-1-152	2016 11 16	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616624.9	604139.2	2.5	830.8	10
EXC16-1-153	2016 11 16	East	SAND, fine grained, light brown, damp.	6616625.1	604139.4	1.5	831.7	10
EXC16-1-154	2016 11 16	East	SAND, fine grained, light brown, damp.	6616625.4	604139.4	0.5	832.5	10
EXC16-1-155	2016 11 16	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616618.0	604141.2	2.5	830.9	10
EXC16-1-156	2016 11 16	East	SAND, fine grained, light brown, damp.	6616618.0	604141.4	1.5	831.8	10
EXC16-1-157	2016 11 16	East	SAND, fine grained, light brown, damp.	6616617.7	604141.1	0.5	832.7	10
EXC16-1-158	2016 11 17	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616603.5	604108.0	4.0	829.5	35
EXC16-1-159	2016 11 17	Floor	SAND and GRAVEL, medium to coarse grained sand, some silt, some cobbles, grey, damp.	6616600.4	604113.9	4.0	829.5	20
EXC16-1-160	2016 11 17	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616595.0	604113.1	4.0	829.5	20
EXC16-1-161	2016 11 17	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616603.5	604121.1	4.0	829.6	35
EXC16-1-165	2016 11 18	West	COBBLES, some sand, medium to coarse grained sand, some gravel, grey, damp.	6616573.7	604115.0	5.5	828.4	10
EXC16-1-166	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616573.7	604114.7	4.5	829.3	10
EXC16-1-167	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616573.9	604114.6	3.5	830.1	10
EXC16-1-168	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616584.3	604113.6	5.5	828.1	20
EXC16-1-D16	2016 11 18	West	Blind field duplicate of EXC16-1-168.	6616584.3	604113.6	5.5	828.1	20
EXC16-1-169	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616584.3	604113.3	4.5	829.1	10
EXC16-1-170	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616584.4	604113.3	3.5	830.0	10
EXC16-1-171	2016 11 18	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odour.	6616591.6	604117.1	5.5	828.1	20
EXC16-1-172	2016 11 18	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odour.	6616592.3	604117.1	4.5	828.8	10
EXC16-1-173	2016 11 18	North	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616598.4	604122.6	3.5	828.2	20
EXC16-1-D17	2016 11 18	North	Blind field duplicate of EXC16-1-173.	6616598.4	604122.6	3.5	828.2	20
EXC16-1-174	2016 11 18	North	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616598.4	604122.6	3.5	829.1	10
EXC16-1-175	2016 11 18	North	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616606.6	604126.1	3.5	827.9	10
EXC16-1-176	2016 11 18	North	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616606.7	604125.8	3.5	828.8	10
EXC16-1-177	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616592.6	604108.4	3.5	830.1	10
EXC16-1-178	2016 11 18	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616603.6	604104.5	3.5	829.9	10
EXC16-1-D18	2016 11 18	West	Blind field duplicate of EXC16-1-178.	6616603.6	604104.5	3.5	829.9	10
EXC16-1-179	2016 11 19	North	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616612.5	604126.4	5.5	828.2[a]	30
EXC16-1-180	2016 11 19	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616612.5	604126.4	4.5	829.2[a]	20
EXC16-1-181	2016 11 19	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616613.4	604133.3	5.5	827.9	30
EXC16-1-182	2016 11 19	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616613.9	604133.4	4.5	828.8	20
EXC16-1-183	2016 11 19	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616614.3	604133.7	3.5	829.6	20
EXC16-1-184	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616602.1	604137.1	5.5	828.6	5
EXC16-1-185	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616602.1	604137.7	4.5	829.2	5
EXC16-1-186	2016 11 19	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616602.1	604137.9	3.5	830.3	25
EXC16-1-187	2016 11 19	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616601.7	604138.4	2.5	831.3	75
EXC16-1-188	2016 11 19	East	SAND, medium grained, trace gravel, brown, loose, hydrocarbon-like odour.	6616601.6	604138.6	1.5	832.1	100
EXC16-1-D19	2016 11 18	East	Blind field duplicate of EXC16-1-188.	6616601.6	604138.6	1.5	832.1	100
EXC16-1-189	2016 11 19	East	SAND, fine grained, light brown, damp, hydrocarbon-like odour.	6616601.7	604138.5	0.5	832.9	100
EXC16-1-190	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616593.9	604135.3	5.5	828.4	30
EXC16-1-191	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616594.1	604136.3	4.5	829.1	20
EXC16-1-192	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616593.8	604136.8	3.5	830.2	10
EXC16-1-193	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616593.8	604137.0	2.5	831.3	10
EXC16-1-194	2016 11 19	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616593.7	604137.1	1.5	832.0	10
EXC16-1-195	2016 11 19	East	SAND, fine grained, light brown, damp.	6616593.5	604137.3	0.5	832.7	30
EXC16-1-D20	2016 11 18	East	Blind field duplicate of EXC16-1-195.	6616593.5	604137.3	0.5	832.7	30
EXC16-1-198	2016 11 20	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616559.0	604130.3	3.0	830.7	40
EXC16-1-D21	2016 11 20	Floor	Blind field duplicate of EXC16-1-198.	6616559.0	604130.3	3.0	830.7	40
EXC16-1-199	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616555.6	604132.7	2.5	831.6	35
EXC16-1-200	2016 11 20	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616565.7	604119.6	5.5	828.6	25
EXC16-1-201	2016 11 20	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616565.0	604119.6	4.5	829.5	25
EXC16-1-202	2016 11 20	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616564.4	604119.7	3.5	830.1	25
EXC16-1-203	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616566.8	604127.4	5.5	828.7	30

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 1								
EXC16-1-204	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616566.0	604127.8	4.5	829.2	25
EXC16-1-205	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616565.1	604128.4	3.5	830.0	35
EXC16-1-D22	2016 11 20	South	Blind field duplicate of EXC16-1-205.	6616565.1	604128.4	3.5	830.0	35
EXC16-1-206	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616576.4	604131.7	5.5	828.6	30
EXC16-1-207	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616576.1	604132.4	4.5	829.7	20
EXC16-1-208	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616575.9	604132.7	3.5	830.1	20
EXC16-1-209	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616586.2	604133.9	5.5	828.6	20
EXC16-1-210	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616585.8	604134.3	4.5	829.5	15
EXC16-1-211	2016 11 20	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey,very dense, damp.	6616585.5	604134.5	3.5	830.2	20
EXC16-1-212	2016 11 21	Floor	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616576.8	604118.6	6.0	827.8	40
EXC16-1-213	2016 11 21	Floor	GRAVEL, some sand, medium to coarse grained, some cobbles, grey, damp.	6616570.9	604118.3	6.0	827.6	10
EXC16-1-214	2016 11 21	Floor	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616573.2	604125.3	6.0	827.9	40
EXC16-1-215	2016 11 21	Floor	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616569.4	604123.3	6.5	828.1	60
EXC16-1-216	2016 11 21	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616589.2	604138.1	2.5	831.4	20
EXC16-1-217	2016 11 21	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616588.5	604139.5	1.5	832.4	10
EXC16-1-218	2016 11 21	East	SAND, fine grained, light brown, damp.	6616588.6	604139.3	0.5	833.2	15
EXC16-1-219	2016 11 21	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616583.3	604141.7	2.5	831.1	15
EXC16-1-220	2016 11 21	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616573.0	604142.0	2.5	831.0	25
EXC16-1-221	2016 11 21	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616563.3	604139.1	2.5	831.3	10
EXC16-1-222	2016 11 21	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616553.2	604131.1	2.5	831.5	10
EXC16-1-223	2016 11 21	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616547.1	604124.8	2.5	831.1	15
EXC16-1-224	2016 11 21	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616578.1	604120.0	3.0	827.6	10
EXC16-1-225	2016 11 21	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616555.2	604125.0	3.0	830.7	20
EXC16-1-226	2016 11 21	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616570.6	604135.4	3.0	830.6	15
EXC16-1-227	2016 11 21	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616579.4	604137.8	3.0	830.7	35
EXC16-1-402	2016 12 12	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, cobbles, grey/brown, loose, damp.	6616587.4	604120.7	8.0	825.2	20
EXC16-1-403	2016 12 12	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, cobbles, grey/brown, loose, damp.	6616586.8	604125.7	8.0	825.3	10
EXC16-1-404	2016 12 12	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, cobbles, grey/brown, loose, damp.	6616581.9	604128.4	8.0	825.3	20
EXC16-1-405	2016 12 12	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, cobbles, grey/brown, loose, damp.	6616591.9	604126.0	8.0	825.1	20
EXC16-1-406	2016 12 12	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, cobbles, grey/brown, loose, damp.	6616598.5	604131.9	8.0	825.4	35
EXC16-1-407	2016 12 12	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, cobbles, grey/brown, loose, damp.	6616606.3	604130.0	8.0	825.2	35
EXC16-1-D43	2016 12 12	Floor	Blind field duplicate of EXC16-1-407.	6616606.3	604130.0	8.0	825.2	35
EXC16-1-408	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616598.8	604124.2	7.5	825.7	5
EXC16-1-409	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616599.4	604122.6	6.5	826.7	5
EXC16-1-410	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616600.0	604120.7	5.5	827.6	20
EXC16-1-411	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616600.8	604118.1	4.5	829.0	10
EXC16-1-412	2016 12 13	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616603.2	604117.7	4.0	829.4	25
EXC16-1-413	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616605.1	604126.1	7.5	826.0	20
EXC16-1-414	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616605.2	604124.9	6.5	826.7	20
EXC16-1-415	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616605.8	604123.4	5.5	827.6	25
EXC16-1-416	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616605.9	604121.5	4.5	828.8	20
EXC16-1-417	2016 12 13	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616610.6	604131.9	7.5	825.5	10
EXC16-1-418	2016 12 13	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616611.6	604132.6	6.5	826.2	10
EXC16-1-419	2016 12 13	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616613.2	604133.3	5.5	827.1	10
EXC16-1-420	2016 12 13	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616615.6	604133.6	4.5	828.2	5
EXC16-1-421	2016 12 13	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616618.5	604134.3	3.5	829.4	5
EXC16-1-422	2016 12 13	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616602.1	604137.9	7.5	826.6[a]	5
EXC16-1-423	2016 12 13	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616602.1	604137.9	6.5	827.6[a]	20
EXC16-1-424	2016 12 13	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616593.9	604135.3	7.5	826.4[a]	15
EXC16-1-425	2016 12 13	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616593.9	604135.3	6.5	827.4[a]	20
EXC16-1-426	2016 12 13	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616602.1	604137.9	2.5	831.3[a]	160
EXC16-1-D44	2016 12 13	South	Blind field duplicate of EXC16-1-426.	6616602.1	604137.9	2.5	831.3[a]	160
EXC16-1-427	2016 12 13	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616602.1	604137.9	1.5	832.3[a]	130
EXC16-1-D45	2016 12 13	South	Blind field duplicate of EXC16-1-427.	6616602.1	604137.9	1.5	832.3[a]	130
EXC16-1-428	2016 12 13	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616602.1	604137.9	0.5	833.3[a]	65
EXC16-1-429	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616589.0	604114.3	7.5	825.7	10
EXC16-1-430	2016 12 13	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616589.1	604113.7	6.5	826.2	5
EXC16-1-431	2016 12 14	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616585.4	604113.5	7.5	825.4	15
EXC16-1-432	2016 12 14	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616585.3	604113.2	6.5	826.6	15
EXC16-1-433	2016 12 14	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616577.0	604131.3	7.5	826.2	0
EXC16-1-434	2016 12 14	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616577.0	604131.6	6.5	827.3	0
EXC16-1-435	2016 12 14	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616584.8	604133.3	7.5	825.8	0
EXC16-1-436	2016 12 14	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616584.8	604133.4	6.5	827.0	0
EXC16-1-457	2016 12 15	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616611.1	604127.9	7.5	825.8	10
EXC16-1-458	2016 12 15	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616610.8	604127.7	6.5	827.3	0
EXC16-1-459	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616581.4	604120.6	7.5	825.8	20
EXC16-1-D48	2016 12 16	Floor	Blind field duplicate of EXC16-1-459.	6616581.4	604120.6	7.5	825.8	20
EXC16-1-460	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616578.3	604119.7	6.5	827.0	5
EXC16-1-461	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616573.8	604117.7	6.2	827.7	0

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 1								
EXC16-1-462	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616576.1	604126.5	7.5	826.0	5
EXC16-1-463	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616573.3	604124.8	6.5	827.5	5
EXC16-1-464	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616565.1	604121.6	6.2	828.3	0
EXC16-1-465	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616562.4	604121.0	4.8	829.2	0
EXC16-1-466	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616560.1	604121.4	3.5	830.0	5
EXC16-1-467	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616554.8	604114.8	3.2	830.6	5
EXC16-1-468	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616553.0	604123.0	3.2	830.7	5
EXC16-1-469	2016 12 16	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616548.7	604126.0	2.5	830.5	0
EXC16-1-470	2016 12 16	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616584.3	604112.4	2.5	831.4	0
EXC16-1-471	2016 12 16	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616584.0	604111.3	1.5	832.3	10
EXC16-1-472	2016 12 16	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616583.7	604110.0	0.5	833.2	0
EXC16-1-473	2016 12 16	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616567.0	604121.3	6.2	828.0	10
EXC16-1-D49	2016 12 16	Floor	Blind field duplicate of EXC16-1-473.	6616567.0	604121.3	6.2	828.0	10
EXC16-1-474	2016 12 17	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616541.9	604117.4	1.5	832.9	25
EXC16-1-475	2016 12 17	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616541.3	604117.1	0.5	833.8	15
EXC16-1-476	2016 12 17	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616535.5	604123.2	1.5	832.7	15
EXC16-1-477	2016 12 17	West	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to rounded, trace silt, grey/brown, loose, damp.	6616534.1	604122.8	0.5	834.1	10
EXC16-1-478	2016 12 17	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616538.7	604129.9	1.3	832.5	5
EXC16-1-479	2016 12 17	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616538.9	604130.0	0.3	833.3	15
EXC16-1-480	2016 12 17	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616542.6	604121.7	1.8	832.2	60
EXC16-1-D50	2016 12 17	Floor	Blind field duplicate of EXC16-1-480.	6616542.6	604121.7	1.8	832.2	60
EXC16-1-481	2016 12 17	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616542.1	604126.1	1.5	832.2	55
EXC16-1-482	2016 12 17	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616545.8	604130.1	1.5	832.2	40
EXC16-1-483	2016 12 17	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616546.7	604133.0	1.2	832.5	35
EXC16-1-484	2016 12 17	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616545.8	604133.4	0.4	833.5	10
EXC16-1-485	2016 12 17	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616578.9	604146.3	1.5	832.4	45
EXC16-1-486	2016 12 17	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616576.7	604150.2	1.2	832.4	30
EXC16-1-487	2016 12 17	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616576.3	604150.6	0.4	833.2	45
EXC16-1-488	2016 12 17	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616584.0	604156.2	1.2	832.8	30
EXC16-1-489	2016 12 17	South	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616583.8	604156.8	0.4	833.4	120
EXC16-1-D51	2016 12 17	South	Blind field duplicate of EXC16-1-489.	6616583.8	604156.8	0.4	833.4	120
EXC16-1-490	2016 12 17	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616587.1	604154.0	1.5	832.2	25
EXC16-1-491	2016 12 17	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616591.5	604155.1	1.2	832.8	35
EXC16-1-D52	2016 12 17	East	Blind field duplicate of EXC16-1-491.	6616591.5	604155.1	1.2	832.8	35
EXC16-1-492	2016 12 17	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616591.9	604155.7	0.4	833.6	15
EXC16-1-493	2016 12 17	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616591.4	604149.3	1.2	832.1	25
EXC16-1-494	2016 12 17	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616592.1	604148.4	0.4	833.3	45
EXC16-1-495	2016 12 17	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616586.4	604147.9	1.5	832.2	25
Excavation Area 2								
EXC16-2-437	2016 12 14	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616637.0	604166.2	3.0	829.9	75
EXC16-2-D46	2016 12 14	Floor	Blind field duplicate of EXC16-2-437.	6616637.0	604166.2	3.0	829.9	75
EXC16-2-438	2016 12 14	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616639.5	604167.8	2.5	830.5	50
EXC16-2-D47	2016 12 14	East	Blind field duplicate of EXC16-2-438.	6616639.5	604167.8	2.5	830.5	50
EXC16-2-439	2016 12 14	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616639.6	604168.0	1.5	831.4	20
EXC16-2-440	2016 12 14	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616639.7	604168.0	0.5	832.5	10
EXC16-2-441	2016 12 14	East	), medium to coarse grained, trace gravel, fine and coarse, subrounded to rounded, grey/brown, loose,	6616637.7	604177.2	2.5	830.9	10
EXC16-2-442	2016 12 14	East	), medium to coarse grained, trace gravel, fine and coarse, subrounded to rounded, grey/brown, loose,	6616638.3	604176.4	1.5	831.9	20
EXC16-2-443	2016 12 14	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616638.1	604177.2	0.5	833.0	15
EXC16-2-444	2016 12 14	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616635.7	604184.1	3.0	830.3	25
EXC16-2-445	2016 12 14	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616637.0	604183.1	2.5	830.9	30
EXC16-2-446	2016 12 14	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616637.3	604186.3	1.5	831.9	20
EXC16-2-447	2016 12 14	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616637.3	604186.3	0.5	832.9[a]	15
EXC16-2-448	2016 12 14	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616633.9	604182.8	2.5	830.9	25
EXC16-2-449	2016 12 14	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616633.8	604183.5	1.5	831.7	20
EXC16-2-450	2016 12 14	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616633.8	604184.2	0.5	832.9	15
EXC16-2-451	2016 12 14	West	), medium to coarse grained, trace gravel, fine and coarse, subrounded to rounded, grey/brown, loose,	6616633.9	604171.8	2.5	830.9	15
EXC16-2-452	2016 12 14	West	), medium to coarse grained, trace gravel, fine and coarse, subrounded to rounded, grey/brown, loose,	6616633.9	604173.7	1.5	831.8	25
EXC16-2-453	2016 12 14	West	SAND, fine grained, some gravel, trace silt, black, medium dense, damp.	6616633.7	604175.0	0.5	832.9	20
EXC16-2-454	2016 12 14	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616633.3	604165.9	2.5	830.9	20
EXC16-2-455	2016 12 14	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616633.3	604165.9	1.5	831.9	25
EXC16-2-456	2016 12 14	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616633.5	604165.6	0.5	832.9	10
Excavation Area 3A								
EXC16-3A-054	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616539.7	604209.6	2.5	831.9	10
EXC16-3A-055	2016 11 11	East	SAND and GRAVEL, fine grained sand, trace silt, light brown, medium dense, damp.	6616540.2	604209.7	1.5	833.1	10
EXC16-3A-056	2016 11 11	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616540.1	604209.9	0.5	833.8	10
EXC16-3A-057	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616537.0	604217.4	2.5	831.5	10
EXC16-3A-058	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616537.3	604218.0	1.5	832.6	5
EXC16-3A-059	2016 11 11	East	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616537.6	604218.2	0.5	833.4	10
EXC16-3A-060	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.0	604225.1	2.5	831.1	10
EXC16-3A-061	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.3	604225.1	1.5	832.0	5
EXC16-3A-062	2016 11 11	East	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616534.6	604225.6	0.5	833.2	5
EXC16-3A-063	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616531.8	604230.5	2.5	831.1	10
EXC16-3A-064	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616532.4	604230.9	1.5	832.0	10

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 3A								
EXC16-3A-065	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616533.0	604231.7	0.5	833.1	15
EXC16-3A-066	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616528.2	604240.8	2.5	831.6	10
EXC16-3A-067	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, light brown, loose, damp.	6616528.1	604241.4	1.5	832.2	15
EXC16-3A-068	2016 11 11	East	fine grained, trace silt, trace gravel, light brown, medium dense, damp, trace rootlets, hydrocarbon-like	6616528.4	604240.1	0.5	833.3	80
EXC16-3A-D6	2016 11 11	East	Blind field duplicate of EXC16-3A-068.	6616528.4	604240.1	0.5	833.3	80
EXC16-3A-069	2016 11 11	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616523.3	604245.5	2.5	831.3	25
EXC16-3A-070	2016 11 11	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, light brown, loose, damp.	6616522.9	604246.6	1.5	832.1	20
EXC16-3A-071	2016 11 11	South	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616522.8	604246.9	0.5	833.0	10
EXC16-3A-072	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616517.8	604239.0	2.5	831.7	15
EXC16-3A-073	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616516.9	604238.2	1.5	832.3	15
EXC16-3A-074	2016 11 11	East	ND, fine grained, trace silt, trace gravel, fine, subrounded, light brown, medium dense, damp, trace root	6616517.3	604237.3	0.5	833.3	10
EXC16-3A-075	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616518.7	604230.0	2.5	831.2	0
EXC16-3A-076	2016 11 11	East	SAND, medium grained, grey, loose, damp.	6616518.2	604229.3	1.5	833.0	15
EXC16-3A-077	2016 11 11	East	SAND, fine grained, trace silt, trace gravel, fine, subrounded, light brown, medium dense, damp.	6616518.6	604229.6	0.5	831.9	15
EXC16-3A-078	2016 11 11	West	SAND, medium grained, light grey.	6616522.7	604220.0	2.5	832.1	15
EXC16-3A-079	2016 11 11	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616522.6	604219.5	1.5	833.2	15
EXC16-3A-080	2016 11 11	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616522.8	604220.8	0.5	831.1	20
EXC16-3A-081	2016 11 11	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616530.6	604210.6	2.5	831.9	25
EXC16-3A-D7	2016 11 11	West	Blind field duplicate of EXC16-3A-081.	6616530.6	604210.6	2.5	831.9	25
EXC16-3A-082	2016 11 11	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616530.0	604211.2	1.5	832.7	10
EXC16-3A-083	2016 11 11	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616530.3	604210.9	0.5	833.8	10
EXC16-3A-084	2016 11 11	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616538.0	604205.6	2.5	831.9	10
EXC16-3A-085	2016 11 11	North	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616537.6	604205.1	1.5	832.8	10
EXC16-3A-086	2016 11 11	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616537.8	604204.4	0.5	833.8	15
EXC16-3A-087	2016 11 11	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616537.2	604209.4	3.0	831.4	15
EXC16-3A-088	2016 11 11	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616538.9	604212.8	1.5	832.6	15
EXC16-3A-089	2016 11 11	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616522.8	604240.2	3.0	828.4	20
EXC16-3A-D8	2016 11 11	Floor	Blind field duplicate of EXC16-3A-089.	6616522.8	604240.2	3.0	828.4	20
EXC16-3A-090	2016 11 11	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616522.3	604241.2	5.5	829.4	20
EXC16-3A-091	2016 11 11	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616522.3	604241.8	4.5	830.3	15
EXC16-3A-092	2016 11 11	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616522.4	604243.6	3.5	830.9	20
EXC16-3A-093	2016 11 11	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.1	604216.4	5.5	828.5	15
EXC16-3A-094	2016 11 11	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.3	604214.9	4.5	829.5	10
EXC16-3A-095	2016 11 11	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.5	604213.4	3.5	830.6	10
EXC16-3A-241	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616535.6	604217.7	3.5	828.8	55
EXC16-3A-242	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616536.1	604217.7	4.5	829.8	60
EXC16-3A-243	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616536.2	604218.0	5.5	830.7	60
EXC16-3A-244	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616533.1	604225.1	3.5	829.0	50
EXC16-3A-245	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616533.3	604225.3	4.5	830.1	40
EXC16-3A-246	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616534.0	604225.4	5.5	830.8	45
EXC16-3A-247	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616531.0	604230.9	3.5	829.2	50
EXC16-3A-248	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616531.3	604231.2	4.5	830.2	45
EXC16-3A-249	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616531.7	604231.3	5.5	830.9	40
EXC16-3A-250	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.2	604239.6	3.5	828.6	35
EXC16-3A-251	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.3	604239.6	4.5	829.5	30
EXC16-3A-252	2016 11 23	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.4	604239.7	5.5	830.3	35
EXC16-3A-253	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.3	604237.9	3.5	828.9	40
EXC16-3A-254	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.0	604238.0	4.5	829.5	50
EXC16-3A-255	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616516.6	604238.1	5.5	830.2	55
EXC16-3A-256	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616519.7	604229.9	3.5	828.7	30
EXC16-3A-257	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616519.7	604229.7	4.5	829.7	35
EXC16-3A-258	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616519.3	604229.5	5.5	830.5	20
EXC16-3A-259	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616524.0	604220.1	3.5	828.8	30
EXC16-3A-260	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616523.6	604220.0	4.5	830.1	15
EXC16-3A-261	2016 11 23	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616523.3	604219.8	5.5	830.8	15
EXC16-3A-287	2016 12 03	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616521.7	604238.8	7.5	826.3	15
EXC16-3A-288	2016 12 03	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616521.3	604239.6	6.5	827.1	10
EXC16-3A-289	2016 12 03	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616520.9	604240.8	5.5	828.3	10
EXC16-3A-290	2016 12 03	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616520.4	604241.5	4.5	829.3	10
EXC16-3A-291	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616524.4	604239.1	7.5	826.2	0
EXC16-3A-292	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616524.2	604240.3	6.5	827.2	0
EXC16-3A-293	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616523.9	604241.4	5.5	828.2	0
EXC16-3A-294	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616523.6	604242.3	4.5	829.4	10
EXC16-3A-295	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616527.1	604239.6	7.5	826.3	15
EXC16-3A-296	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616527.8	604239.6	6.5	827.5	15
EXC16-3A-297	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.1	604240.0	5.5	828.3	15
EXC16-3A-298	2016 12 03	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.3	604240.2	4.5	829.2	20
EXC16-3A-299	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616519.5	604236.9	7.5	826.1	20
EXC16-3A-300	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616518.5	604237.0	6.5	826.7	5
EXC16-3A-301	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.7	604237.9	5.5	828.3	15
EXC16-3A-302	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616516.8	604238.4	4.5	829.3	15
EXC16-3A-303	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616519.4	604233.8	7.5	825.8	30
EXC16-3A-D28	2016 12 03	West	Blind field duplicate of EXC16-3A-303.	6616519.4	604233.8	7.5	825.8	30
EXC16-3A-304	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616518.6	604233.4	6.5	827.0	25
EXC16-3A-305	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616518.2	604233.1	5.5	828.3	25
EXC16-3A-D29	2016 12 03	West	Blind field duplicate of EXC16-3A-305.	6616518.2	604233.1	5.5	828.3	25
EXC16-3A-306	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.6	604232.8	4.5	829.5	5
EXC16-3A-307	2016 12 03	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616518.9	604232.5	6.0	827.4	25
EXC16-3A-D30	2016 12 03	West	Blind field duplicate of EXC16-3A-307.	6616518.9	604232.5	6.0	827.4	25
EXC16-3A-308	2016 12 04	East	SAND, medium to coarse grained, trace gravel, loose.	6616529.7	604232.5	7.5	826.2	20

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 3A								
EXC16-3A-309	2016 12 04	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616530.1	604232.8	6.5	827.1	15
EXC16-3A-310	2016 12 04	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616530.6	604232.8	5.5	828.1	20
EXC16-3A-311	2016 12 04	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616531.2	604232.7	4.5	829.3	10
EXC16-3A-312	2016 12 04	Floor	SAND, medium to coarse grained, trace gravel, loose.	6616522.0	604232.8	8.0	825.1	10
EXC16-3A-D31	2016 12 04	Floor	Blind field duplicate of EXC16-3A-312.	6616522.0	604232.8	8.0	825.1	10
EXC16-3A-313	2016 12 04	Floor	SAND, medium to coarse grained, trace gravel, loose.	6616527.1	604233.8	8.0	825.5	15
EXC16-3A-314	2016 12 04	West	nd GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, black staining, hydrocarbon-li	6616524.0	604224.1	7.5	826.1	10
EXC16-3A-315	2016 12 04	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616523.7	604224.0	6.5	827.2	5
EXC16-3A-316	2016 12 04	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616526.2	604225.3	8.0	825.8	5
EXC16-3A-324	2016 12 05	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616533.6	604223.1	7.5	826.3	35
EXC16-3A-325	2016 12 05	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616533.8	604223.0	6.5	827.3	25
EXC16-3A-326	2016 12 05	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616534.0	604222.8	5.5	828.5	20
EXC16-3A-327	2016 12 05	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616534.4	604222.8	4.5	829.3	15
EXC16-3A-328	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616530.1	604224.6	8.0	825.2	15
EXC16-3A-334	2016 12 05	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.2	604215.5	8.5	826.2	25
EXC16-3A-335	2016 12 05	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616528.1	604215.1	7.5	827.1	20
EXC16-3A-336	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, black staining.	6616529.9	604219.2	8.0	825.7	15
EXC16-3A-D33	2016 12 05	Floor	Blind field duplicate of EXC16-3A-336.	6616529.9	604219.2	8.0	825.7	15
EXC16-3A-337	2016 12 05	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616532.2	604213.8	7.5	826.5	20
EXC16-3A-338	2016 12 05	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616533.5	604213.4	6.5	827.7	5
EXC16-3A-341	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616536.0	604225.7	3.5	831.5	25
EXC16-3A-D35	2016 12 07	West	Blind field duplicate of EXC16-3A-341.	6616536.0	604225.7	3.5	831.5	25
EXC16-3A-342	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616536.8	604224.6	2.5	832.5	20
EXC16-3A-343	2016 12 07	West	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to rounded, trace silt, grey/brown, loose, damp.	6616537.5	604225.8	1.5	833.0	15
EXC16-3A-344	2016 12 07	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616538.1	604226.6	0.5	833.6	15
EXC16-3A-345	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616532.6	604231.0	3.5	830.6	20
EXC16-3A-346	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616533.8	604233.6	2.5	831.2	20
EXC16-3A-347	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616535.0	604234.2	1.5	832.1	20
EXC16-3A-348	2016 12 07	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616536.2	604235.6	0.5	833.2	0
EXC16-3A-349	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616528.3	604240.6	3.5	830.3	15
EXC16-3A-350	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616529.4	604241.4	2.5	831.5	25
EXC16-3A-351	2016 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616530.7	604242.5	1.5	832.4	30
EXC16-3A-D36	2016 12 07	West	Blind field duplicate of EXC16-3A-351.	6616530.7	604242.5	1.5	832.4	30
EXC16-3A-352	2016 12 07	West	SAND, fine grained, trace silt, light brown, medium dense, damp.	6616531.7	604244.0	0.5	833.4	20
EXC16-3A-353	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616525.9	604242.7	3.5	830.0	10
EXC16-3A-354	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616525.7	604244.6	2.5	831.5	10
EXC16-3A-355	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616525.5	604246.8	1.5	832.4	0
EXC16-3A-356	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616526.5	604248.6	0.5	833.1	5
EXC16-3A-357	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616518.8	604241.3	3.5	829.9	10
EXC16-3A-358	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616518.3	604242.5	2.5	831.0	10
EXC16-3A-359	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616516.7	604245.9	1.5	832.1[a]	20
EXC16-3A-D37	2016 12 07	South	Blind field duplicate of EXC16-3A-359.	6616516.7	604245.9	1.5	832.1[a]	20
EXC16-3A-360	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616516.7	604245.9	0.5	833.1	5
EXC16-3A-361	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616516.8	604236.9	3.5	829.9	20
EXC16-3A-362	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616514.4	604238.4	2.5	831.2	25
EXC16-3A-363	2016 12 07	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616512.6	604239.6	1.5	832.3	30
EXC16-3A-364	2016 12 07	South	ND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subangular, brown, loose, da	6616511.5	604239.0	0.5	833.5	110
EXC16-3A-D38	2016 12 07	South	Blind field duplicate of EXC16-3A-364.	6616511.5	604239.0	0.5	833.5	110
EXC16-3A-365	2016 12 07	East	SAND, some gravel.	6616516.0	604232.0	3.5	830.5	20
EXC16-3A-366	2016 12 07	East	SAND, trace gravel, loose.	6616514.8	604231.6	2.5	831.3	15
EXC16-3A-367	2016 12 07	East	SAND, some gravel, loose.	6616514.1	604231.4	1.5	832.4	15
EXC16-3A-368	2016 12 07	East	SAND, medium to coarse grained, some gravel, brown, damp/frozen.	6616513.4	604230.6	0.5	833.1	100
EXC16-3A-D39	2016 12 07	East	Blind field duplicate of EXC16-3A-368.	6616513.4	604230.6	0.5	833.1	100
TP16-3-1.3	2016 11 24	Test Pit	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	-	-	1.0-1.3	-	510
EXC16-D25	2016 11 24	Test Pit	Blind field duplicate of TP16-3-1.3.	-	-	1.0-1.3	-	510
TP16-3-1.5	2016 11 24	Test Pit	D, medium to coarse grained, trace gravel, fine and coarse, subrounded, grey, loose, hydrocarbon-like	-	-	1.3-1.5	-	380
EXC16-D26	2016 11 24	Test Pit	Blind field duplicate of TP16-3-1.5.	-	-	1.3-1.5	-	380
TP16-3-2.5	2016 11 24	Test Pit	D, medium to coarse grained, trace gravel, fine and coarse, subrounded, grey, loose, hydrocarbon-like	-	-	2.0-2.5	-	150
EXC16-D27	2016 11 24	Test Pit	Blind field duplicate of TP16-3-2.5.	-	-	2.0-2.5	-	150
Excavation Area 3B								
EXC16-3B-129	2016 11 17	North	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616515.6	604198.0	0.3	833.2	10
EXC16-3B-130	2016 11 17	North	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616510.7	604189.5	0.3	833.1	30
EXC16-3B-131	2016 11 17	West	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616506.7	604179.8	0.3	833.2	20
EXC16-3B-132	2016 11 17	West	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616493.0	604186.8	0.3	833.2	40
EXC16-3B-133	2016 11 17	South	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616498.3	604194.3	0.3	833.2	10
EXC16-3B-134	2016 11 17	South	and GRAVEL, fine to medium grained sand, fine gravel, light brown, some organics, hydrocarbon-like	6616506.7	604200.2	0.3	833.3	30
EXC16-3B-135	2016 11 17	Floor	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown, hydrocarbon-like odour.	6616512.9	604200.9	0.5	833.0	40
EXC16-3B-136	2016 11 17	Floor	SAND, fine grained, trace gravel, light brown.	6616505.8	604194.1	0.5	832.8	-
EXC16-3B-137	2016 11 17	Floor	SAND, fine grained, trace gravel, light brown.	6616501.1	604190.3	0.5	832.8	10
EXC16-3B-138	2016 11 17	Floor	SAND, fine grained, trace gravel, light brown.	6616503.8	604184.8	0.5	832.8	10
EXC16-3B-139	2016 11 17	South	SAND, fine grained, trace gravel, light brown.	6616519.3	604210.9	0.6	833.1	10
EXC16-3B-140	2016 11 17	East	SAND, fine grained, light brown.	6616524.6	604211.9	0.8	833.0	550
EXC16-3B-D14	2016 11 17	East	Blind field duplicate of EXC16-3B-140.	6616524.6	604211.9	0.8	833.0	550
EXC16-3B-141	2016 11 17	North	SAND, fine grained, light brown.	6616522.5	604204.6	0.6	833.2	300
EXC16-3B-162	2016 11 17	Floor	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown, hydrocarbon-like odour.	6616521.4	604209.3	0.8	832.7	2750
EXC16-3B-D15	2016 11 17	Floor	Blind field duplicate of EXC16-3B-162.	6616521.4	604209.3	0.8	832.7	2750
EXC16-3B-163	2016 11 17	West	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616497.2	604180.1	0.3	833.4	15
EXC16-3B-164	2016 11 17	South	SAND and GRAVEL, fine to medium grained sand, fine gravel, light brown.	6616514.1	604207.1	0.3	833.3	20
EXC16-3B-317	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616512.9	604200.5	1.8	832.0	15
EXC16-3B-318	2016 12 05	North	SILT, some sand, grey/brown, frozen.	6616515.3	604197.7	0.3	833.1	15
EXC16-3B-319	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616522.0	604208.9	1.8	831.5	15
EXC16-3B-320	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616529.0	604202.8	1.8	831.5	15
EXC16-3B-321	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616533.2	604197.1	2.0	831.1	25
EXC16-3B-322	2016 12 05	Floor	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616527.1	604195.5	2.0	831.3	50

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sampl e Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 3B								
EXC16-3B-323	2016 12 05	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616515.1	604198.6	1.5	832.2	0
EXC16-3B-329	2016 12 05	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616522.9	604199.7	1.5	831.8	15
EXC16-3B-330	2016 12 05	West	SILT, some sand, fine grained, grey/brown, frozen.	6616522.6	604199.5	0.5	833.1	110
EXC16-3B-D32	2016 12 05	West	Blind field duplicate of EXC16-3B-330.	6616522.6	604199.5	0.5	833.1	110
EXC16-3B-331	2016 12 05	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616513.7	604206.3	1.5	832.2	55
EXC16-3B-332	2016 12 05	South	SILT, some sand, grey/brown, frozen.	6616513.5	604206.6	0.5	833.0	40
EXC16-3B-333	2016 12 05	South	SILT, some sand, grey/brown, frozen.	6616519.1	604210.8	1.5	832.3	25
Excavation Area 3C								
EXC16-3C-228	2016 11 22	East	SAND, medium grained, some gravel, grey, damp, hydrocarbon-like odour.	6616532.3	604190.7	4.5	829.9	100
EXC16-3C-229	2016 11 22	East	SAND, medium grained, some gravel, grey, damp, hydrocarbon-like odour.	6616532.6	604191.9	3.5	830.8	480
EXC16-3C-D23	2016 11 22	East	Blind field duplicate of EXC16-3C-229.	6616532.6	604191.9	3.5	830.8	480
EXC16-3C-230	2016 11 22	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616532.4	604192.8	2.5	832.0	550
EXC16-3C-231	2016 11 22	East	AND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like odou	6616532.4	604193.0	1.5	833.0	270
EXC16-3C-232	2016 11 22	East	D and GRAVEL (FILL), medium to coarse grained sand, some cobbles, grey, damp, hydrocarbon-like o	6616531.8	604192.5	0.5	833.7	230
EXC16-3C-233	2016 11 22	East	SAND, medium to coarse grained, some gravel.	6616523.9	604192.3	3.5	830.4	45
EXC16-3C-234	2016 11 22	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616524.3	604193.1	2.5	831.3	35
EXC16-3C-235	2016 11 22	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616524.6	604193.6	1.5	832.2	35
EXC16-3C-236	2016 11 22	East	SAND, fine grained, light brown, damp.	6616524.2	604193.2	0.5	833.2	20
EXC16-3C-237	2016 11 22	East	SAND, medium to coarse grained, some gravel.	6616518.1	604191.6	3.5	830.2	35
EXC16-3C-D24	2016 11 22	East	Blind field duplicate of EXC16-3C-237.	6616518.1	604191.6	3.5	830.2	35
EXC16-3C-238	2016 11 22	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.9	604193.0	2.5	831.1	25
EXC16-3C-239	2016 11 22	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.8	604193.7	1.5	831.9	15
EXC16-3C-240	2016 11 22	East	SAND, fine grained, light brown, damp.	6616517.6	604193.2	0.5	833.0	10
EXC16-3C-262	2016 11 24	South	SAND, medium grained, light grey, damp.	6616514.8	604187.7	3.5	830.4	35
EXC16-3C-263	2016 11 24	South	SAND, medium grained, light grey, damp.	6616514.5	604187.8	2.5	831.4	35
EXC16-3C-264	2016 11 24	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616514.3	604187.8	1.5	832.2	35
EXC16-3C-265	2016 11 24	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616514.6	604187.8	0.5	832.9	15
EXC16-3C-266	2016 11 24	West	SAND, medium grained, light grey, damp.	6616518.5	604182.4	3.5	830.8	30
EXC16-3C-267	2016 11 24	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616518.6	604182.0	2.5	831.7	45
EXC16-3C-268	2016 11 24	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616518.6	604181.7	1.5	832.2	40
EXC16-3C-269	2016 11 24	West	SAND, fine grained, some gravel, light brown, damp.	6616519.0	604181.3	0.5	833.1	35
EXC16-3C-270	2016 11 24	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616526.0	604180.3	3.5	830.5	25
EXC16-3C-271	2016 11 24	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616525.4	604179.4	2.5	831.5	20
EXC16-3C-272	2016 11 24	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616525.6	604179.3	1.5	832.3	20
EXC16-3C-273	2016 11 24	West	SAND, fine grained, light brown, damp.	6616527.7	604180.0	0.5	833.2	20
EXC16-3C-274	2016 11 24	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616534.4	604185.0	3.5	830.4	15
EXC16-3C-275	2016 11 24	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616535.4	604184.5	2.5	831.6	20
EXC16-3C-276	2016 11 24	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616535.5	604184.5	1.5	832.4	25
EXC16-3C-277	2016 11 24	North	SAND, fine grained, light brown, damp.	6616535.2	604184.5	0.5	833.1	20
EXC16-3C-286	2016 12 03	West	SAND, fine grained, some gravel, light brown, damp.	6616519.0	604181.3	0.5	833.1[a]	-
EXC16-3C-339	2016 12 06	North	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616537.4	604195.5	1.5	831.9	20
EXC16-3C-D34	2016 12 06	North	Blind field duplicate of EXC16-3C-339.	6616537.4	604195.5	1.5	831.9	20
EXC16-3C-340	2016 12 06	North	SILT and SAND, some gravel, brown, damp/frozen.	6616537.3	604195.1	0.3	833.2	10
EXC16-3C-369	2016 12 08	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616517.3	604190.5	8.0	825.8	20
EXC16-3C-370	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616516.3	604190.7	7.5	826.4	20
EXC16-3C-371	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616515.5	604190.9	6.5	827.2	10
EXC16-3C-372	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616514.9	604191.1	5.5	828.2	10
EXC16-3C-373	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616514.4	604191.6	4.5	829.2	10
EXC16-3C-374	2016 12 08	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616516.7	604187.6	8.0	825.7	10
EXC16-3C-375	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616515.6	604187.5	7.5	826.3	30
EXC16-3C-D40	2016 12 08	South	Blind field duplicate of EXC16-3C-375.	6616515.6	604187.5	7.5	826.3	30
EXC16-3C-376	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616515.1	604187.5	6.5	827.0	20
EXC16-3C-377	2016 12 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616514.5	604187.2	5.5	827.9	20
EXC16-3C-378	2016 12 08	South	, medium to coarse grained, some gravel, fine and coarse, subrounded to rounded, grey/brown, loose,	6616513.7	604187.5	4.5	828.9	10
EXC16-3C-379	2016 12 08	West	SAND, medium to coarse grained, grey/brown, loose, damp.	6616520.4	604182.9	7.5	826.4	0
EXC16-3C-380	2016 12 08	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616520.3	604182.3	6.5	827.1	10
EXC16-3C-381	2016 12 08	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616520.2	604181.4	5.5	827.9	5
EXC16-3C-382	2016 12 08	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616519.6	604181.0	4.5	829.0	5
EXC16-3C-383	2016 12 08	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616521.2	604184.3	8.0	825.9	5
EXC16-3C-384	2016 12 08	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616523.1	604191.8	7.5	826.6	0
EXC16-3C-385	2016 12 08	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616523.8	604192.5	6.5	827.1	0
EXC16-3C-386	2016 12 08	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616524.7	604193.8	5.5	828.1	15
EXC16-3C-D41	2016 12 08	East	Blind field duplicate of EXC16-3C-386.	6616524.7	604193.8	5.5	828.1	15
EXC16-3C-387	2016 12 08	East	, medium to coarse grained, trace gravel, fine and coarse, subrounded to rounded, grey/brown, loose,	6616525.6	604194.6	4.5	829.1	0
EXC16-3C-388	2016 12 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616526.8	604182.8	8.0	826.0	45
EXC16-3C-389	2016 12 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616526.6	604181.0	7.5	827.4	25
EXC16-3C-390	2016 12 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616525.5	604180.7	6.5	828.5	0
EXC16-3C-391	2016 12 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616526.7	604179.7	5.5	829.3	0
EXC16-3C-392	2016 12 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616527.1	604179.4	4.5	830.4	0
EXC16-3C-393	2016 12 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616532.8	604184.9	7.5	827.5	40
EXC16-3C-394	2016 12 10	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616533.1	604184.9	6.5	828.6	20
EXC16-3C-395	2016 12 10	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.4	604185.0	5.5	829.0[a]	20
EXC16-3C-396	2016 12 10	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	6616534.4	604185.0	4.5	830.0[a]	10
EXC16-3C-397	2016 12 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616530.4	604192.4	8.5	826.9	350
EXC16-3C-398	2016 12 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616530.9	604192.5	7.5	827.5	470
EXC16-3C-399	2016 12 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616531.6	604192.7	6.5	828.5	550
EXC16-3C-D42	2016 12 10	East	Blind field duplicate of EXC16-3C-399.	6616531.6	604192.7	6.5	828.5	550

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 3C								
EXC16-3C-400	2016 12 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616532.3	604192.8	5.5	829.6	100
EXC16-3C-401	2016 12 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp, hydrocarbon-like odour.	6616532.5	604193.7	4.5	830.6	160
Excavation Area 3D								
EXC16-3D-278	2016 11 24	South	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616512.8	604166.8	0.5	832.9	15
EXC16-3D-279	2016 11 24	East	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616521.5	604167.3	0.5	832.8	15
EXC16-3D-280	2016 11 24	West	SAND and GRAVEL, medium to coarse grained sand, some cobbles, grey, damp.	6616517.1	604159.1	0.5	833.0	30
EXC16-3D-281	2016 11 24	Floor	SAND, fine grained, light brown, damp.	6616517.8	604164.6	1.5	831.8	20
EXC16-3D-282	2016 11 24	South	SAND, fine grained, light brown, damp.	6616512.8	604166.4	1.5	831.8	5
EXC16-3D-283	2016 11 24	East	SAND, fine grained, light brown, damp.	6616521.3	604167.4	1.5	831.9	65
EXC16-3D-284	2016 11 24	West	SAND, fine grained, light brown, damp.	6616517.1	604159.2	1.5	832.3	70
Excavation Area 5								
EXC16-5-001	2016 11 08	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616549.1	604287.1	3.0	830.0	5
EXC16-5-002	2016 11 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616545.0	604285.9	2.5	830.8	0
EXC16-5-003	2016 11 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey/brown, loose, damp.	6616543.0	604285.3	1.5	831.7	0
EXC16-5-004	2016 11 08	South	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey/brown, loose, damp.	6616542.3	604285.4	0.5	832.7	0
EXC16-5-005	2016 11 08	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616573.5	604275.5	3.0	830.4	0
EXC16-5-006	2016 11 08	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616573.8	604273.5	2.5	830.8	10
EXC16-5-007	2016 11 08	West	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey/brown, loose, damp.	6616574.0	604272.4	1.5	831.7	0
EXC16-5-008	2016 11 08	West	SAND, fine grained, trace silt, grey/brown, medium dense, damp.	6616574.4	604272.1	0.5	832.7	0
EXC16-5-009	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616583.1	604275.7	2.5	830.2	0
EXC16-5-010	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, light brown, loose, damp.	6616583.2	604275.2	1.5	831.0	5
EXC16-5-011	2016 11 10	West	SAND, fine grained, trace silt, grey/brown, medium dense, damp, trace rootlets.	6616583.0	604275.0	0.5	832.2	5
EXC16-5-012	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey/brown, loose, damp, hydrocarbon-like odour.	6616590.8	604281.1	2.5	829.9	5
EXC16-5-013	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, light brown, loose, damp.	6616591.6	604280.7	1.5	830.9	5
EXC16-5-014	2016 11 10	West	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace silt, trace cobbles, grey, loose, damp, hydrocarbon-like odour.	6616591.9	604280.6	0.5	832.2	60
EXC16-5-D1	2016 11 10	West	Blind field duplicate of EXC16-5-014.	6616591.9	604280.6	0.5	832.2	60
EXC16-5-015	2016 11 10	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey/brown, loose, damp.	6616593.3	604289.1	2.5	830.3	0
EXC16-5-016	2016 11 10	North	SAND, fine grained, trace silt, trace gravel, fine, subrounded to subangular, grey/brown, medium dense, moist, trace wood debris.	6616593.3	604289.6	1.5	831.5	5
EXC16-5-017	2016 11 10	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, light brown, loose, damp, some tar.	6616593.8	604289.6	0.5	832.3	10
EXC16-5-018	2016 11 10	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616585.7	604296.3	2.5	830.3	10
EXC16-5-019	2016 11 10	North	SAND, fine grained, trace silt, grey/brown, medium dense, damp.	6616585.7	604296.4	1.5	831.3	5
EXC16-5-D2	2016 11 10	North	Blind field duplicate of EXC16-5-019.	6616585.7	604296.4	1.5	831.3	5
EXC16-5-020	2016 11 10	North	SAND, fine grained, trace silt, trace gravel, fine, subrounded, grey/brown, medium dense, damp.	6616585.6	604296.7	0.5	832.2	5
EXC16-5-021	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, brown, loose, damp.	6616575.0	604298.0	2.5	830.5	10
EXC16-5-022	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616574.9	604298.1	1.5	831.3	5
EXC16-5-023	2016 11 10	East	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp, hydrocarbon-like odour.	6616574.9	604298.1	0.5	832.5	5
EXC16-5-024	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616564.4	604298.8	2.5	831.0	5
EXC16-5-025	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616564.5	604298.8	1.5	831.6	5
EXC16-5-026	2016 11 10	East	SAND, fine to medium grained, trace silt, grey/brown, medium dense, damp, trace rootlets.	6616564.4	604298.9	0.5	832.5	5
EXC16-5-027	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616552.0	604295.8	2.5	830.5	10
EXC16-5-028	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616553.2	604296.1	1.5	831.3	5
EXC16-5-029	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616552.9	604296.4	0.5	832.2	5
EXC16-5-030	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616544.3	604290.9	2.5	830.5	5
EXC16-5-D3	2016 11 10	East	Blind field duplicate of EXC16-5-030.	6616544.3	604290.9	2.5	830.5	5
EXC16-5-031	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616544.1	604291.1	1.5	831.3	10
EXC16-5-032	2016 11 10	East	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, light brown, loose, damp.	6616544.0	604291.2	0.5	832.4	5
EXC16-5-033	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616547.5	604279.5	2.5	830.5	15
EXC16-5-034	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616547.3	604279.5	1.5	831.6	5
EXC16-5-035	2016 11 10	West	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616546.8	604279.3	0.5	833.0	10
EXC16-5-036	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616555.2	604274.9	2.5	830.6	10
EXC16-5-037	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616555.2	604274.7	1.5	831.7	10
EXC16-5-038	2016 11 10	West	SAND, fine grained, trace silt, grey/brown, medium dense, damp.	6616555.5	604274.0	0.5	832.8	10
EXC16-5-039	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616565.1	604272.9	2.5	830.6	5
EXC16-5-040	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616565.1	604272.2	1.5	831.9	10
EXC16-5-041	2016 11 10	West	SAND, fine grained, trace silt, grey/brown, medium dense, damp.	6616565.1	604272.0	0.5	832.7	5
EXC16-5-042	2016 11 10	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616595.4	604285.8	1.5	831.3	10

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 8 (Cont'd): Excavation Sample Log

Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Elev (m)	Headspace (ppm)
Excavation Area 5								
EXC16-5-043	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616588.2	604283.5	3.0	829.6	10
EXC16-5-044	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616585.6	604292.0	3.0	829.8	15
EXC16-5-D5	2016 11 10	Floor	Blind field duplicate of EXC16-5-044.	6616585.6	604292.0	3.0	829.8	15
EXC16-5-045	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616580.8	604278.6	3.0	829.9	15
EXC16-5-046	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616581.0	604287.2	3.0	829.9	10
EXC16-5-047	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, brown, loose, damp.	6616572.9	604294.9	3.0	830.3	15
EXC16-5-D4	2016 11 10	Floor	Blind field duplicate of EXC16-5-047.	6616572.9	604294.9	3.0	830.3	15
EXC16-5-048	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616572.4	604284.9	3.0	830.3	10
EXC16-5-049	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, light grey, loose, damp.	6616563.1	604277.9	3.0	830.1	10
EXC16-5-050	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, light grey, loose, damp.	6616558.6	604286.1	3.0	830.4	10
EXC16-5-051	2016 11 10	Floor	SAND, medium grained sand, trace cobbles, light grey, loose, damp.	6616562.0	604294.3	3.0	830.4	10
EXC16-5-052	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, dark brown, loose, damp.	6616553.8	604280.0	3.0	830.1	10
EXC16-5-053	2016 11 10	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, black, loose, damp.	6616552.9	604291.4	3.0	829.9	5
EXC16-5-196	2016 11 19	Floor	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616585.6	604292.8	3.3	829.4	10
EXC16-5-197	2016 11 20	North	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace cobbles, grey, loose, damp.	6616596.1	604285.4	1.5	831.7	40
EXC16-5-285	2016 11 24	Floor	SAND and GRAVEL, medium to coarse grained sand, grey, loose, damp.	6616583.0	604294.3	4.0	828.8	10
EXC17-05-498	2017 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, grey/brown, loose, damp	6616548.1	604269.1	0.5-0.8	833.3	0
EXC17-05-499	2017 12 07	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, grey/brown, loose, damp	6616548.1	604269.4	0.8-1.0	833.1	10
EXC17-05-500	2017 12 07	West	SAND, fine to medium grained, brown, loose, damp.	6616548.1	604269.5	1.0-1.2	832.8	0
EXC17-05-501	2017 12 07	West	Blind field duplicate of EXC17-05-500.	6616548.1	604269.5	1.0-1.2	832.8	0
Excavation Area 6								
EXC17-06-496	2017 12 06	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, grey/brown, frozen.	6616497.1	604239.7	0.5-0.6	833.2	20
EXC17-06-497	2017 12 06	West	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, grey/brown, loose, damp	6616497.1	604239.7	0.6-0.8	832.9	25
Confirmatory Test Pits								
TP17-01-01	2017 11 24	Test Pit	AND, fine to medium grained, some silt, brown/dark grey, medium dense, hydrocarbon-like odour, staini	6616548.3	604270.7	0.5-0.8	833.2	0
TP17-01-02	2017 11 24	Test Pit	SAND, medium grained, some gravel, fine and coarse, rounded, brown, loose, damp.	6616548.3	604270.7	0.8-1.0	832.8	10
TP17-02-01	2017 11 24	Test Pit	SAND, fine to coarse grained, trace gravel, fine and coarse, subangular to subrounded, grey/brown, frozen, hydrocarbon-like odour.	6616493.4	604243.9	0.5-0.6	833.6	0
TP17-02-02	2017 11 24	Test Pit	SAND, fine to coarse grained, trace gravel, fine and coarse, subangular to subrounded, grey/brown, frozen, hydrocarbon-like odour.	6616493.5	604243.9	0.6-0.8	833.2	0
TP17-03-01	2017 11 24	Test Pit	SAND, fine to coarse grained, trace gravel, fine and coarse, subangular to subrounded, grey/brown, frozen, hydrocarbon-like odour.	6616486.1	604239.3	0.3-0.6	833.4	0
TP17-03-02	2017 11 24	Test Pit	SAND, fine to coarse grained, trace gravel, fine and coarse, subangular to subrounded, grey/brown, frozen, hydrocarbon-like odour.	6616486.1	604239.4	0.6-0.8	833.0	0
TP17-04-01	2017 11 24	Test Pit	SAND, medium to coarse grained, brown, loose, damp.	6616481.9	604248.9	3.0-3.1	831.4	0
TP17-04-02	2017 11 24	Test Pit	Blind field duplicate of TP17-04-01.	6616481.9	604248.9	3.0-3.1	831.4	0
TP17-05-01	2017 11 24	Test Pit	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, brown, medium dense, damp	6616479.4	604254.1	3.0-3.1	831.1	0
TP17-06-01	2017 11 25	Test Pit	SAND, fine to medium grained, orange/brown, loose, damp.	6616465.5	604259.6	1.5-1.6	832.4	0
TP17-07-01	2017 11 25	Test Pit	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, brown, medium dense, damp	6616400.2	604277.8	1.4-1.5	832.8	0
TP17-07-02	2017 11 25	Test Pit	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, brown, medium dense, damp	6616400.2	604277.8	1.5-1.7	832.6	0
TP17-08-01	2017 11 25	Test Pit	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, brown, medium dense, damp	6616396.1	604273.3	3.0	831.3	0
TP17-08-02	2017 11 25	Test Pit	Blind field duplicate of TP17-08-01.	6616396.1	604273.3	3.0	831.3	0

INVERSE Inverse represents interim samples (that were subsequently excavated).

[a] Location not surveyed in. Northings/eastings/elevation estimated from other samples.

TABLE 9: Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 1																		
EXC16-1-096	EXC16-1-096	2016 11 13	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-097	EXC16-1-097	2016 11 13	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D9	Duplicate	1.5	15	< 0.0050	< 0.010	***0.36***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-098	EXC16-1-098	2016 11 13	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-099	EXC16-1-099	2016 11 13	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-100	EXC16-1-100	2016 11 13	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-101	EXC16-1-101	2016 11 13	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-102	EXC16-1-102	2016 11 13	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-103	EXC16-1-103	2016 11 13	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-104	EXC16-1-104	2016 11 13	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-105	EXC16-1-105	2016 11 13	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-106	EXC16-1-106	2016 11 13	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D10	Duplicate	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-107	EXC16-1-107	2016 11 13	0.5	5	< 0.0050	< 0.010	***0.40***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-111	EXC16-1-111	2016 11 13	2.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-112	EXC16-1-112	2016 11 13	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-113	EXC16-1-113	2016 11 13	0.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-114	EXC16-1-114	2016 11 13	2.5	0	< 0.0050	< 0.010	0.027	< 0.040	< 0.030	< 7.0	180	< 100	< 10	120	72	< 50	-	< 0.10
EXC16-1-115	EXC16-1-115	2016 11 13	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	270	< 100	< 10	***250***	120	< 50	-	< 0.10
EXC16-1-116	EXC16-1-116	2016 11 13	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	210	< 100	< 10	100	190	< 50	-	< 0.10
	EXC16-1-D11	Duplicate	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	220	< 100	< 10	130	200	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	26	*	*	-	*
EXC16-1-117	EXC16-1-117	2016 11 13	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D12	Duplicate	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-118	EXC16-1-118	2016 11 13	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-119	EXC16-1-119	2016 11 13	0.5	10	< 0.0050	< 0.010	***0.16***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-120	EXC16-1-120	2016 11 14	2.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-121	EXC16-1-121	2016 11 14	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-122	EXC16-1-122	2016 11 14	0.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	31	63	< 50	-	< 0.10
EXC16-1-123	EXC16-1-123	2016 11 14	3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-125	EXC16-1-125	2016 11 14	3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-126	EXC16-1-126	2016 11 14	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-127	EXC16-1-127	2016 11 14	1.5	5	< 0.0050	< 0.010	***2.0***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-128	EXC16-1-128	2016 11 14	0.5	5	< 0.0050	< 0.010	0.044	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-142	EXC16-1-142	2016 11 16	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-143	EXC16-1-143	2016 11 16	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-144	EXC16-1-144	2016 11 16	3.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-145	EXC16-1-145	2016 11 16	2.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-146	EXC16-1-146	2016 11 16	1.5	20	0.026	0.014	***0.24***	0.045	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-147	EXC16-1-147	2016 11 16	0.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-148	EXC16-1-148	2016 11 16	3.0	70	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-149	EXC16-1-149	2016 11 16	2.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-150	EXC16-1-150	2016 11 16	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-151	EXC16-1-151	2016 11 16	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-152	EXC16-1-152	2016 11 16	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-153	EXC16-1-153	2016 11 16	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-154	EXC16-1-154	2016 11 16	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-155	EXC16-1-155	2016 11 16	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	11	< 10	-	< 0.10
EXC16-1-156	EXC16-1-156	2016 11 16	1.5	10	***0.056***	< 0.010	***0.29***	0.050	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-157	EXC16-1-157	2016 11 16	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-158	EXC16-1-158	2016 11 17	4.0	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-159	EXC16-1-159	2016 11 17	4.0	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	510	390	< 10	86	830	< 10	-	< 0.10
EXC16-1-160	EXC16-1-160	2016 11 17	4.0	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-165	EXC16-1-165	2016 11 18	5.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	10	< 10	< 50	< 50	-	< 0.10
EXC16-1-166	EXC16-1-166	2016 11 18	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-167	EXC16-1-167	2016 11 18	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-168	EXC16-1-168	2016 11 18	5.5	20	< 0.0050	< 0.010	0.021	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	14	< 50	< 50	-	< 0.10
	EXC16-1-D16	Duplicate	5.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-169	EXC16-1-169	2016 11 18	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	8.5	500	< 100	12	***390***	140	< 50	-	< 0.10
EXC16-1-170	EXC16-1-170	2016 11 18	3.5	10	< 0.0050	< 0.010	< 0.020	0.047	< 0.030	38	940	< 100	***49***	***730***	190	< 50	-	< 0.10
EXC16-1-171	EXC16-1-171	2016 11 18	5.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	13	< 50	< 50	-	< 0.10
EXC16-1-172	EXC16-1-172	2016 11 18	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-177	EXC16-1-177	2016 11 18	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-178	EXC16-1-178	2016 11 18	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D18	Duplicate	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-179	EXC16-1-179	2016 11 19	5.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	17	< 10	< 10	-	< 0.10
EXC16-1-180	EXC16-1-180	2016 11 19	4.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	13	< 10	< 10	-	< 0.10
EXC16-1-184	EXC16-1-184	2016 11 19	5.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	1,000	< 100	< 10	***710***	350	< 50	-	< 0.10
EXC16-1-185	EXC16-1-185	2016 11 19	4.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	44	1,700	320	***59***	***1,000***	940	< 50	-	< 0.10
EXC16-1-186	EXC16-1-186	2016 11 19	3.5	25	< 0.0050	***0.13***	< 0.020	1.1	< 0.030	32	1,400	230	24	***970***	630	< 50	-	< 0.10
EXC16-1-190	EXC16-1-190	2016 11 19	5.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	85	**4,900**	200	***110***	***4,200***	1,200	< 50	-	< 0.10
EXC16-1-191	EXC16-1-191	2016 11 19	4.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	13	**3,000**	120	< 10	***2,500***	770	< 50	-	< 0.10
EXC16-1-192	EXC16-1-192	2016 11 19	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-193	EXC16-1-193	2016 11 19	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-194	EXC16-1-194	2016 11 19	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-195	EXC16-1-195	2016 11 19	0.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D20	Duplicate	0.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 1																		
EXC16-1-198	EXC16-1-198	2016 11 20	3.0	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
	EXC16-1-D21	Duplicate	3.0	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-199	EXC16-1-199	2016 11 20	2.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-200	EXC16-1-200	2016 11 20	5.5	25	< 0.0050	< 0.010	0.029	< 0.040	< 0.030	< 10	< 100	< 100	< 10	37	20	< 10	-	< 0.10
EXC16-1-201	EXC16-1-201	2016 11 20	4.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	14	13	< 10	-	< 0.10
EXC16-1-202	EXC16-1-202	2016 11 20	3.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	160	< 100	< 10	130	86	26	-	< 0.10
EXC16-1-203	EXC16-1-203	2016 11 20	5.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-204	EXC16-1-204	2016 11 20	4.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	11	-	< 0.10
EXC16-1-205	EXC16-1-205	2016 11 20	3.5	35	< 0.0050	***0.15***	***0.33***	2.5	< 0.030	11	< 100	< 100	12	14	77	29	-	< 0.10
	EXC16-1-D22	Duplicate	3.5	35	< 0.0050	0.018	0.023	0.23	< 0.030	< 10	< 100	< 100	< 10	20	53	19	-	< 0.10
	QA/QC RPD%				*	*	*	166	*	*	*	*	*	*	37	*	-	*
EXC16-1-206	EXC16-1-206	2016 11 20	5.5	30	< 0.0050	< 0.010	0.022	< 0.040	< 0.030	< 10	< 100	240	< 10	17	280	120	-	< 0.10
EXC16-1-207	EXC16-1-207	2016 11 20	4.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	200	460	< 10	140	590	230	-	< 0.10
EXC16-1-208	EXC16-1-208	2016 11 20	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-209	EXC16-1-209	2016 11 20	5.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	12	17	< 10	-	< 0.10
EXC16-1-210	EXC16-1-210	2016 11 20	4.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-211	EXC16-1-211	2016 11 20	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-214	EXC16-1-214	2016 11 21	6.0	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	11	55	19	-	< 0.10
EXC16-1-216	EXC16-1-216	2016 11 21	2.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	710	190	< 10	***570***	440	35	-	< 0.10
EXC16-1-217	EXC16-1-217	2016 11 21	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-218	EXC16-1-218	2016 11 21	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	220	280	< 10	***190***	***480***	180	-	< 0.10
EXC16-1-219	EXC16-1-219	2016 11 21	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-220	EXC16-1-220	2016 11 21	2.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	20	-	< 0.10
EXC16-1-221	EXC16-1-221	2016 11 21	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-223	EXC16-1-223	2016 11 21	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-226	EXC16-1-226	2016 11 21	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	13	38	12	-	< 0.10
EXC16-1-227	EXC16-1-227	2016 11 21	3.0	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	11	12	-	< 0.10
EXC16-1-402	EXC16-1-402	2016 12 12	8.0	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	41	**2,800**	140	***52***	***2,100***	460	< 50	-	< 0.10
EXC16-1-403	EXC16-1-403	2016 12 12	8.0	10	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	**2,300**	330	< 10	***1,400***	750	< 50	-	< 0.10
EXC16-1-404	EXC16-1-404	2016 12 12	8.0	20	< 0.0050	< 0.010	< 0.040	0.66	0.10	30	< 100	< 100	***41***	43	< 50	< 50	-	< 0.10
EXC16-1-405	EXC16-1-405	2016 12 12	8.0	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	**3,300**	350	< 10	***2,000***	1,100	< 50	-	< 0.10
EXC16-1-406	EXC16-1-406	2016 12 12	8.0	35	< 0.0050	< 0.010	0.058	0.33	< 0.030	140	**9,700**	1,400	***160***	***6,600***	***3,300***	< 50	-	< 0.10
EXC16-1-407	EXC16-1-407	2016 12 12	8.0	35	< 0.0050	< 0.010	0.032	< 0.040	< 0.030	19	**2,400**	370	20	***1,200***	1,000	< 50	-	< 0.10
	EXC16-1-D43	Duplicate	8.0	35	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	1,800	290	< 10	***1,100***	870	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	29	*	*	9	14	*	-	*
EXC16-1-408	EXC16-1-408	2016 12 13	7.5	5	< 0.0050	< 0.010	0.033	< 0.040	< 0.030	32	350	< 100	***31***	***240***	94	< 50	-	< 0.10
EXC16-1-409	EXC16-1-409	2016 12 13	6.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-410	EXC16-1-410	2016 12 13	5.5	20	< 0.0050	< 0.010	0.036	0.28	< 0.030	< 7.0	< 100	< 100	< 10	27	< 50	< 50	-	< 0.10
EXC16-1-411	EXC16-1-411	2016 12 13	4.5	10	< 0.0050	0.046	0.037	1.2	< 0.030	77	**2,300**	< 100	***80***	***1,600***	380	< 50	-	< 0.10
EXC16-1-412	EXC16-1-412	2016 12 13	4.0	25	< 0.0050	***0.11***	0.040	3.0	< 0.030	190	**3,000**	150	***160***	***2,100***	460	< 50	-	< 0.10
EXC16-1-413	EXC16-1-413	2016 12 13	7.5	20	< 0.0050	0.022	0.040	0.85	< 0.030	130	**2,800**	190	***120***	***2,200***	680	< 50	-	< 0.10
EXC16-1-414	EXC16-1-414	2016 12 13	6.5	20	< 0.0050	***0.12***	0.039	3.7	< 0.030	**210**	**4,600**	130	***230***	***3,300***	600	< 50	-	< 0.10
EXC16-1-415	EXC16-1-415	2016 12 13	5.5	25	< 0.0050	***0.25***	0.050	**7.7**	< 0.030	**380**	**4,500**	200	***490***	***3,300***	720	< 50	-	< 0.10
EXC16-1-416	EXC16-1-416	2016 12 13	4.5	20	< 0.0050	0.042	0.044	1.4	< 0.030	54	1,800	< 100	***65***	***1,200***	280	< 50	-	< 0.10
EXC16-1-417	EXC16-1-417	2016 12 13	7.5	10	< 0.0050	< 0.010	0.045	0.57	0.086	23	100	< 100	26	63	< 50	< 50	-	< 0.10
EXC16-1-418	EXC16-1-418	2016 12 13	6.5	10	< 0.0050	< 0.010	0.049	0.24	< 0.030	22	1,200	< 100	***39***	***880***	260	< 50	-	< 0.10
EXC16-1-419	EXC16-1-419	2016 12 13	5.5	10	< 0.0050	< 0.010	< 0.040	0.047	< 0.030	13	560	< 100	11	***410***	120	< 50	-	< 0.10
EXC16-1-420	EXC16-1-420	2016 12 13	4.5	5	< 0.0050	< 0.010	0.030	0.53	0.076	< 7.0	140	< 100	< 10	96	< 50	< 50	-	< 0.10
EXC16-1-421	EXC16-1-421	2016 12 13	3.5	5	< 0.0050	< 0.010	0.040	0.067	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-422	EXC16-1-422	2016 12 13	7.5	5	< 0.0050	< 0.010	0.048	0.21	< 0.030	53	**2,300**	380	***58***	***1,500***	1,100	< 50	-	< 0.10
EXC16-1-423	EXC16-1-423	2016 12 13	6.5	20	0.0081	< 0.010	0.065	< 0.040	< 0.030	56	**2,100**	490	***51***	***1,200***	1,300	< 50	-	< 0.10
EXC16-1-424	EXC16-1-424	2016 12 13	7.5	15	< 0.0050	< 0.010	0.042	< 0.040	< 0.030	74	**2,700**	< 100	***73***	***2,100***	410	< 50	-	< 0.10
EXC16-1-425	EXC16-1-425	2016 12 13	6.5	20	< 0.0050	< 0.010	0.058	0.16	< 0.030	170	**3,500**	< 100	***170***	***2,800***	510	< 50	-	< 0.10
EXC16-1-426	EXC16-1-426	2016 12 13	2.5	160	0.012	***1.4***	0.087	***35***	< 0.030	**480**	**3,600**	420	***500***	***2,600***	1,300	< 50	-	< 0.10
	EXC16-1-D44	Duplicate	2.5	160	0.013	***1.4***	0.084	***27***	< 0.030	**450**	**4,100**	470	***480***	***2,900***	1,400	< 50	-	< 0.10
	QA/QC RPD%				*	0	*	26	*	6	13	*	4	11	7	*	-	*
EXC16-1-427	EXC16-1-427	2016 12 13	1.5	130	0.016	***1.6***	0.10	***19***	< 0.030	**1,100**	**13,000**	690	***1,200***	***10,000***	***3,100***	< 50	-	< 0.10
	EXC16-1-D45	Duplicate	1.5	130	0.017	***1.6***	***0.13***	***19***	0.036	**1,300**	**13,000**	**1,300**	***1,400***	***8,600***	***3,200***	< 50	-	< 0.10
	QA/QC RPD%				*	0	26	0	*	17	0	61	15	15	3	*	-	*
EXC16-1-428	EXC16-1-428	2016 12 13	0.5	65	0.013	***2.6***	***0.74***	***18***	< 0.030	**1,000**	**9,400**	< 500	***1,200***	***7,100***	***2,100***	< 50	-	< 0.10
EXC16-1-429	EXC16-1-429	2016 12 13	7.5	10	< 0.0050	< 0.010	0.030	< 0.040	< 0.030	56	870	< 100	***57***	***620***	230	< 50	-	< 0.10
EXC16-1-430	EXC16-1-430	2016 12 13	6.5	5	< 0.0050	< 0.010	0.039	0.13	< 0.030	170	1,200	< 100	***220***	***760***	300	< 50	-	< 0.10
EXC16-1-431	EXC16-1-431	2016 12 14	7.5	15	< 0.0050	< 0.010	0.052	0.13	< 0.030	64	1,700	< 100	***62***	***1,200***	230	< 50	-	< 0.10
EXC16-1-432	EXC16-1-432	2016 12 14	6.5	15	< 0.0050	< 0.010	0.033	< 0.040	< 0.030	56	1,100	< 100	***50***	***810***	160	< 50	-	< 0.10
EXC16-1-433	EXC16-1-433	2016 12 14	7.5	0	< 0.0050	< 0.010	0.026	0.94	0.33	150	< 100	< 100	***160***	< 10	< 50	< 50	-	< 0.10
EXC16-1-434	EXC16-1-434	2016 12 14	6.5	0	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	31	< 100	230	29	24	240	89	-	< 0.10
EXC16-1-435	EXC16-1-435	2016 12 14	7.5	0	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-436	EXC16-1-436	2016 12 14	6.5	0	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-457	EXC16-1-457	2016 12 15	7.5	10	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	30	< 50	< 50	-	< 0.10
EXC16-1-458	EXC16-1-458	2016 12 15	6.5	0	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	21	< 50	< 50	-	< 0.10
EXC16-1-459	EXC16-1-459	2016 12 16	7.5	20	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D48	Duplicate	7.5	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-460	EXC16-1-460	2016 12 16	6.5	5	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	49	< 50	< 50	-	< 0.10
EXC16-1-461	EXC16-1-461	2016 12 16	6.2	0	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-462	EXC16-1-462	2016 12 16	7.5	5	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	29	< 50	< 50	-	< 0.10
EXC16-1-463	EXC16-1-463	2016 12 16	6.5	5	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	55	< 50	< 50	-	< 0.10
EXC16-1-464	EXC16-1-464	2016 12 16	6.2	0	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	49	< 100	< 100	< 10	12	< 50	< 50	-	< 0.10
EXC16-1-465	EXC16-1-465	2016 12 16	4.8	0	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	270	< 100	< 10	***200***	78	< 50	-	< 0.10
EXC16-1-466	EXC16-1-466	2016 12 16	3.5	5	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	350	< 100	< 10	***260***	90	< 50	-	< 0.10
EXC16-1-467	EXC16-1-467	2016 12 16	3.2	5	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-468	EXC16-1-468	2016 12 16	3.2	5	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-469	EXC16-1-469	2016 12 16	2.5	0	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-470	EXC16-1-470	2016 12 16	2.5	0	< 0.0050	< 0.010	0.025	< 0.040	< 0.030	41	**2,100**	< 100	***36***	***1,600***	340	< 50	-	< 0.10
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a	
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a	
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

					Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 1																		
EXC16-1-471	EXC16-1-471	2016 12 16	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	61	**3,300**	130	***58***	***2,700***	***460***	< 50	-	< 0.10
EXC16-1-472	EXC16-1-472	2016 12 16	0.5	0	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	10	< 50	< 50	-	< 0.10
EXC16-1-473	EXC16-1-473	2016 12 16	6.2	10	< 0.0050	< 0.010	0.028	< 0.040	< 0.030	49	190	390	***51***	120	460	190	-	< 0.10
	EXC16-1-D49	Duplicate	6.2	10	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	220	130	< 10	***160***	200	62	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	29	*	*	-	*
EXC16-1-474	EXC16-1-474	2016 12 17	1.5	25	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	200	< 10	< 10	220	82	-	< 0.10
EXC16-1-475	EXC16-1-475	2016 12 17	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-476	EXC16-1-476	2016 12 17	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-477	EXC16-1-477	2016 12 17	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-478	EXC16-1-478	2016 12 17	1.3	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-479	EXC16-1-479	2016 12 17	0.3	15	< 0.0050	< 0.010	< 0.050	< 0.040	< 0.030	< 7.0	120	**2,600**	< 10	24	***2,400***	1,500	-	< 0.10
EXC16-1-480	EXC16-1-480	2016 12 17	1.8	60	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-1-D50	Duplicate	1.8	60	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-1-481	EXC16-1-481	2016 12 17	1.5	55	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-482	EXC16-1-482	2016 12 17	1.5	40	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-483	EXC16-1-483	2016 12 17	1.2	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-484	EXC16-1-484	2016 12 17	0.4	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	290	< 10	11	250	120	-	< 0.10
EXC16-1-485	EXC16-1-485	2016 12 17	1.5	45	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-486	EXC16-1-486	2016 12 17	1.2	30	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-487	EXC16-1-487	2016 12 17	0.4	45	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	41	**3,100**	**2,800**	***51***	***2,800***	***3,200***	1,300	-	< 0.10
EXC16-1-488	EXC16-1-488	2016 12 17	1.2	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.2	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-489	EXC16-1-489	2016 12 17	0.4	120	< 0.0050	< 0.010	0.033	0.060	< 0.030	100	**3,000**	**1,300**	***110***	***2,300***	***1,700***	660	-	< 0.10
	EXC16-1-D51	Duplicate	0.4	120	< 0.0050	< 0.010	0.039	0.079	< 0.030	190	**3,000**	**1,400**	***230***	***2,300***	***1,800***	690	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	62	0	7	71	0	6	4	-	*
EXC16-1-490	EXC16-1-490	2016 12 17	1.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-491	EXC16-1-491	2016 12 17	1.2	35	0.017	< 0.010	0.085	1.5	0.24	**210**	560	440	***200***	***430***	***490***	180	-	< 0.10
	EXC16-1-D52	Duplicate	1.2	35	0.013	0.018	0.073	0.13	< 0.030	54	600	460	***66***	***450***	***500***	170	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	118	7	*	101	5	2	*	-	*
EXC16-1-492	EXC16-1-492	2016 12 17	0.4	15	0.016	0.018	0.090	0.18	< 0.030	93	880	500	***110***	***690***	***540***	150	-	< 0.10
EXC16-1-493	EXC16-1-493	2016 12 17	1.2	25	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-1-494	EXC16-1-494	2016 12 17	0.4	45	0.013	0.055	0.069	0.86	< 0.030	17	650	560	20	***470***	***600***	190	-	< 0.10
EXC16-1-495	EXC16-1-495	2016 12 17	1.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
Excavation Area 2																		
EXC16-2-437	EXC16-2-437	2016 12 14	3.0	75	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-2-D46	Duplicate	3.0	75	< 0.0050	< 0.010	***0.53***	0.12	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-2-438	EXC16-2-438	2016 12 14	2.5	50	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-2-D47	Duplicate	2.5	50	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-2-439	EXC16-2-439	2016 12 14	1.5	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-440	EXC16-2-440	2016 12 14	0.5	10	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-441	EXC16-2-441	2016 12 14	2.5	10	< 0.0050	< 0.010	< 0.050	< 0.040	< 0.030	< 7.0	< 100	150	< 10	26	180	< 50	-	< 0.10
EXC16-2-442	EXC16-2-442	2016 12 14	1.5	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	22	< 50	< 50	-	< 0.10
EXC16-2-443	EXC16-2-443	2016 12 14	0.5	15	< 0.0050	< 0.010	***0.18***	< 0.040	< 0.030	< 7.0	470	590	< 10	75	***780***	< 50	-	< 0.10
EXC16-2-444	EXC16-2-444	2016 12 14	3.0	25	< 0.0050	< 0.010	< 0.050	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-445	EXC16-2-445	2016 12 14	2.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-446	EXC16-2-446	2016 12 14	1.5	20	< 0.0050	< 0.010	< 0.050	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-447	EXC16-2-447	2016 12 14	0.5	15	< 0.0050	< 0.010	< 0.050	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-448	EXC16-2-448	2016 12 14	2.5	25	< 0.0050	< 0.010	< 0.050	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-449	EXC16-2-449	2016 12 14	1.5	20	< 0.0050	< 0.010	***0.18***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-450	EXC16-2-450	2016 12 14	0.5	15	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-451	EXC16-2-451	2016 12 14	2.5	15	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-452	EXC16-2-452	2016 12 14	1.5	25	< 0.0050	< 0.010	***0.15***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-453	EXC16-2-453	2016 12 14	0.5	20	< 0.0050	< 0.010	0.037	< 0.040	< 0.030	23	**1,400**	**6,600**	***35***	***790***	***8,400***	***5,700***	-	< 0.10
EXC16-2-454	EXC16-2-454	2016 12 14	2.5	20	< 0.0050	< 0.010	***0.62***	0.23	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-455	EXC16-2-455	2016 12 14	1.5	25	< 0.0050	< 0.010	***0.21***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-2-456	EXC16-2-456	2016 12 14	0.5	10	< 0.0050	< 0.010	< 0.060	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	23	57	< 50	-	< 0.10
Excavation Area 3A																		
EXC16-3A-054	EXC16-3A-054	2016 11 11	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-055	EXC16-3A-055	2016 11 11	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-056	EXC16-3A-056	2016 11 11	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	110	< 10	< 10	110	73	-	< 0.10
EXC16-3A-075	EXC16-3A-075	2016 11 11	2.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-076	EXC16-3A-076	2016 11 11	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-077	EXC16-3A-077	2016 11 11	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-078	EXC16-3A-078	2016 11 11	2.5	15	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-081	EXC16-3A-081	2016 11 11	2.5	25	< 0.0050	< 0.010	0.052	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D7	Duplicate	2.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-084	EXC16-3A-084	2016 11 11	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	27	< 50	< 50	-	< 0.10
EXC16-3A-085	EXC16-3A-085	2016 11 11	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	**3,000**	360	< 10	***2,000***	***760***	180	-	< 0.10
EXC16-3A-086	EXC16-3A-086	2016 11 11	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-087	EXC16-3A-087	2016 11 11	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-088	EXC16-3A-088	2016 11 11	1.5	15	0.024	***0.11***	***0.44***	1.4	< 0.030	29	**1,800**	**4,100**	***38***	***960***	***5,200***	***3,900***	#####	< 0.10
EXC16-3A-093	EXC16-3A-093	2016 11 11	5.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-094	EXC16-3A-094	2016 11 11	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-095	EXC16-3A-095	2016 11 11	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-256	EXC16-3A-256	2016 11 23	3.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	26	< 50	< 50	-	< 0.10
EXC16-3A-257	EXC16-3A-257	2016 11 23	4.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	240	< 100	< 10	140	72	< 50	-	< 0.10
EXC16-3A-258	EXC16-3A-258	2016 11 23	5.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	120	< 100	< 10	73	< 50	< 50	-	< 0.10
EXC16-3A-259	EXC16-3A-259	2016 11 23	3.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-260	EXC16-3A-260	2016 11 23	4.5	15	< 0.0050	< 0.010	0.024	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-261	EXC16-3A-261	2016 11 23	5.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-287	EXC16-3A-287	2016 12 03	7.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.2	890	120	< 10	***620***	150	< 50	-	< 0.10
EXC16-3A-288	EXC16-3A-288	2016 12 03	6.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	30	**3,400**	120	26	***2,700***	220	< 50	-	< 0.10
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

					Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 3A																		
EXC16-3A-289	EXC16-3A-289	2016 12 03	5.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	850	< 100	< 10	***690***	130	< 50	-	< 0.10
EXC16-3A-290	EXC16-3A-290	2016 12 03	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	1,200	150	< 10	***1,000***	250	< 50	-	< 0.10
EXC16-3A-291	EXC16-3A-291	2016 12 03	7.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	280	390	< 10	120	490	140	-	< 0.10
EXC16-3A-292	EXC16-3A-292	2016 12 03	6.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	310	560	< 10	110	690	190	-	< 0.10
EXC16-3A-293	EXC16-3A-293	2016 12 03	5.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	9.9	350	410	< 10	***180***	520	150	-	< 0.10
EXC16-3A-294	EXC16-3A-294	2016 12 03	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	18	310	530	15	110	660	180	-	< 0.10
EXC16-3A-295	EXC16-3A-295	2016 12 03	7.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-296	EXC16-3A-296	2016 12 03	6.5	15	< 0.0050	< 0.010	< 0.020	0.37	< 0.030	17	340	440	21	***160***	520	140	-	< 0.10
EXC16-3A-297	EXC16-3A-297	2016 12 03	5.5	15	< 0.0050	< 0.010	< 0.020	0.41	< 0.030	19	730	650	22	***420***	810	220	-	< 0.10
EXC16-3A-298	EXC16-3A-298	2016 12 03	4.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	110	230	< 10	53	270	120	-	< 0.10
EXC16-3A-299	EXC16-3A-299	2016 12 03	7.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-300	EXC16-3A-300	2016 12 03	6.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-301	EXC16-3A-301	2016 12 03	5.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	24	< 50	< 50	-	< 0.10
EXC16-3A-302	EXC16-3A-302	2016 12 03	4.5	15	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	31	< 50	< 50	-	< 0.10
EXC16-3A-303	EXC16-3A-303	2016 12 03	7.5	30	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D28	Duplicate	7.5	30	< 0.0050	< 0.010	0.050	0.11	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-304	EXC16-3A-304	2016 12 03	6.5	25	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-305	EXC16-3A-305	2016 12 03	5.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D29	Duplicate	5.5	25	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-306	EXC16-3A-306	2016 12 03	4.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-307	EXC16-3A-307	2016 12 03	6.0	25	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D30	Duplicate	6.0	25	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-308	EXC16-3A-308	2016 12 04	7.5	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	870	< 100	< 10	***590***	170	< 50	-	< 0.10
EXC16-3A-309	EXC16-3A-309	2016 12 04	6.5	15	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	51	< 50	< 50	-	< 0.10
EXC16-3A-310	EXC16-3A-310	2016 12 04	5.5	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	38	340	< 100	26	***240***	110	< 50	-	< 0.10
EXC16-3A-311	EXC16-3A-311	2016 12 04	4.5	10	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	70	340	< 100	***77***	***270***	51	< 50	-	< 0.10
EXC16-3A-312	EXC16-3A-312	2016 12 04	8.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.1	1,000	< 100	< 10	***800***	210	< 50	-	< 0.10
	EXC16-3A-D31	Duplicate	8.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	990	< 100	< 10	***780***	210	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	1	*	*	3	*	*	-	*
EXC16-3A-313	EXC16-3A-313	2016 12 04	8.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	520	< 100	< 10	***350***	140	< 50	-	< 0.10
EXC16-3A-314	EXC16-3A-314	2016 12 04	7.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	63	< 50	< 50	-	< 0.10
EXC16-3A-315	EXC16-3A-315	2016 12 04	6.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-316	EXC16-3A-316	2016 12 04	8.0	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	260	< 100	< 10	***220***	< 50	< 50	-	< 0.10
EXC16-3A-324	EXC16-3A-324	2016 12 05	7.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	680	< 100	< 10	***480***	110	< 50	-	< 0.10
EXC16-3A-325	EXC16-3A-325	2016 12 05	6.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	18	130	< 100	< 10	73	< 50	< 50	-	< 0.10
EXC16-3A-326	EXC16-3A-326	2016 12 05	5.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-327	EXC16-3A-327	2016 12 05	4.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-328	EXC16-3A-328	2016 12 05	8.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	16	1,000	< 100	< 10	***730***	130	< 50	-	< 0.10
EXC16-3A-334	EXC16-3A-334	2016 12 05	8.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-335	EXC16-3A-335	2016 12 05	7.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-336	EXC16-3A-336	2016 12 05	8.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D33	Duplicate	8.0	15	< 0.0050	< 0.010	0.034	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-337	EXC16-3A-337	2016 12 05	7.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	31	< 50	< 50	-	< 0.10
EXC16-3A-338	EXC16-3A-338	2016 12 05	6.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-341	EXC16-3A-341	2016 12 07	3.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D35	Duplicate	3.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-342	EXC16-3A-342	2016 12 07	2.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	23	220	< 100	14	***160***	71	< 50	-	< 0.10
EXC16-3A-343	EXC16-3A-343	2016 12 07	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	300	300	< 10	***170***	***320***	230	-	< 0.10
EXC16-3A-344	EXC16-3A-344	2016 12 07	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	20	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-345	EXC16-3A-345	2016 12 07	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	30	**2,300**	170	***40***	***1,700***	440	< 50	-	< 0.10
EXC16-3A-346	EXC16-3A-346	2016 12 07	2.5	20	< 0.0050	< 0.010	0.041	< 0.040	< 0.030	14	250	< 100	12	***190***	< 50	< 50	-	< 0.10
EXC16-3A-347	EXC16-3A-347	2016 12 07	1.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	410	110	< 10	***310***	170	< 50	-	< 0.10
EXC16-3A-348	EXC16-3A-348	2016 12 07	0.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	61	**2,000**	260	***73***	***1,500***	***500***	83	-	< 0.10
EXC16-3A-349	EXC16-3A-349	2016 12 07	3.5	15	< 0.0050	< 0.010	0.036	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-350	EXC16-3A-350	2016 12 07	2.5	25	< 0.0050	< 0.010	0.033	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-351	EXC16-3A-351	2016 12 07	1.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D36	Duplicate	1.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-352	EXC16-3A-352	2016 12 07	0.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-353	EXC16-3A-353	2016 12 07	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	440	760	< 10	150	900	260	-	< 0.10
EXC16-3A-354	EXC16-3A-354	2016 12 07	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	140	260	< 10	46	320	99	-	< 0.10
EXC16-3A-355	EXC16-3A-355	2016 12 07	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	15	96	< 50	-	< 0.10
EXC16-3A-356	EXC16-3A-356	2016 12 07	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	660	**1,700**	< 10	***180***	***1,900***	600	-	< 0.10
EXC16-3A-357	EXC16-3A-357	2016 12 07	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	65	1,900	< 100	***90***	***1,700***	160	< 50	-	< 0.10
EXC16-3A-358	EXC16-3A-358	2016 12 07	2.5	10	< 0.0050	< 0.010	0.044	< 0.040	< 0.030	< 7.0	540	< 100	< 10	***390***	74	< 50	-	< 0.10
EXC16-3A-359	EXC16-3A-359	2016 12 07	1.5	20	< 0.0050	< 0.010	0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3A-D37	Duplicate	1.5	20	< 0.0050	< 0.010	0.038	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3A-360	EXC16-3A-360	2016 12 07	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	9.1	< 100	< 100	< 10	13	< 50	< 50	-	< 0.10
EXC16-3A-361	EXC16-3A-361	2016 12 07	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-362	EXC16-3A-362	2016 12 07	2.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-363	EXC16-3A-363	2016 12 07	1.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	28	< 50	< 50	-	< 0.10
EXC16-3A-364	EXC16-3A-364	2016 12 07	0.5	110	< 0.0050	***0.17***	< 0.020	0.44	< 0.030	31	140	750	***38***	88	***770***	540	-	< 0.10
	EXC16-3A-D38	Duplicate	0.5	110	< 0.0050	***0.14***	< 0.020	0.41	< 0.030	90	120	540	***130***	75	***550***	390	-	< 0.10
	QA/QC RPD%				*	19	*	7	*	*	*	33	*	16	33	32	-	*
EXC16-3A-365	EXC16-3A-365	2016 12 07	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-366	EXC16-3A-366	2016 12 07	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-367	EXC16-3A-367	2016 12 07	1.5	15	< 0.0050	< 0.010	0.038	0.34	< 0.030	**360**	550	< 100	***390***	***440***	110	< 50	-	< 0.10
EXC16-3A-368	EXC16-3A-368	2016 12 07	0.5	100	< 0.0050	< 0.010	0.041	0.78	< 0.030	**810**	**1,600**	220	***890***	***1,200***	***360***	76	-	< 0.10
	EXC16-3A-D39[d]	Duplicate	0.5	100	< 0.0050	< 0.010	< 0.020	0.38	< 0.030	120	**4,600**	250	***140***	***3,700***	***520***	83	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	97	*	*	102	36	*	-	*
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

					Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 3B																		
EXC16-3B-130	EXC16-3B-130	2016 11 17	0.3	30	0.0099	< 0.010	0.080	< 0.040	< 0.030	< 10	< 100	180	< 10	12	230	110	-	< 0.10
EXC16-3B-131	EXC16-3B-131	2016 11 17	0.3	20	< 0.0050	< 0.010	0.024	< 0.040	< 0.030	< 10	< 100	450	< 10	14	***530***	290	-	< 0.10
EXC16-3B-132	EXC16-3B-132	2016 11 17	0.3	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	160	< 10	16	200	61	-	< 0.10
EXC16-3B-133	EXC16-3B-133	2016 11 17	0.3	10	0.0052	< 0.010	0.024	< 0.040	< 0.030	< 10	150	550	< 10	50	***680***	450	-	< 0.10
EXC16-3B-134	EXC16-3B-134	2016 11 17	0.3	30	< 0.0050	0.010	< 0.020	0.17	< 0.030	< 10	150	< 100	< 10	96	150	27	-	< 0.10
EXC16-3B-136	EXC16-3B-136	2016 11 17	0.5	-	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	120	< 10	15	120	58	-	< 0.10
EXC16-3B-137	EXC16-3B-137	2016 11 17	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	67	32	-	< 0.10
EXC16-3B-138	EXC16-3B-138	2016 11 17	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	110	48	-	< 0.10
EXC16-3B-139	EXC16-3B-139	2016 11 17	0.6	10	0.012	0.014	0.029	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-3B-163	EXC16-3B-163	2016 11 17	0.3	15	0.0095	< 0.010	0.071	< 0.040	< 0.030	< 10	< 100	450	< 10	15	***450***	240	-	< 0.10
EXC16-3B-317	EXC16-3B-317	2016 12 05	1.8	15	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3B-318	EXC16-3B-318	2016 12 05	0.3	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3B-319	EXC16-3B-319	2016 12 05	1.8	15	< 0.0050	< 0.010	0.026	0.11	< 0.030	< 7.0	260	< 100	< 10	150	110	< 50	-	< 0.10
EXC16-3B-320	EXC16-3B-320	2016 12 05	1.8	15	0.0086	***0.15***	***0.28***	**8.4**	< 0.030	110	**3,100**	1,000	***120***	***1,900***	1,500	330	-	< 0.10
EXC16-3B-321	EXC16-3B-321	2016 12 05	2.0	25	< 0.0050	< 0.010	0.052	***15***	< 0.030	100	1,000	130	***150***	***680***	280	< 50	-	< 0.10
EXC16-3B-322	EXC16-3B-322	2016 12 05	2.0	50	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3B-323	EXC16-3B-323	2016 12 05	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3B-329	EXC16-3B-329	2016 12 05	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	240	130	< 10	130	180	< 50	-	< 0.10
EXC16-3B-330	EXC16-3B-330	2016 12 05	0.5	110	***0.36***	***6.2***	***6.2***	***99***	< 0.030	**2,100**	**38,000**	**8,900**	***2,300***	***23,000***	***17,000***	1,200	-	< 0.10
	EXC16-3B-D32	Duplicate	0.5	110	***0.42***	***6.5***	***7.0***	***100***	< 0.030	**1,800**	**32,000**	**7,600**	***2,000***	***20,000***	***15,000***	1,100	-	< 0.10
	QA/QC RPD%				15	5	12	1	*	15	17	16	14	14	12	9	-	*
EXC16-3B-331	EXC16-3B-331	2016 12 05	1.5	55	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	34	100	< 50	-	< 0.10
EXC16-3B-332	EXC16-3B-332	2016 12 05	0.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.3	**6,500**	**3,900**	< 10	***2,700***	***6,400***	200	-	< 0.10
EXC16-3B-333	EXC16-3B-333	2016 12 05	1.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
Excavation Area 3C																		
EXC16-3C-233	EXC16-3C-233	2016 11 22	3.5	45	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	17	-	< 0.10
EXC16-3C-234	EXC16-3C-234	2016 11 22	2.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-3C-237	EXC16-3C-237	2016 11 22	3.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
	EXC16-3C-D24	Duplicate	3.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3C-238	EXC16-3C-238	2016 11 22	2.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-3C-239	EXC16-3C-239	2016 11 22	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-3C-240	EXC16-3C-240	2016 11 22	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-3C-262	EXC16-3C-262	2016 11 24	3.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-263	EXC16-3C-263	2016 11 24	2.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-264	EXC16-3C-264	2016 11 24	1.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-265	EXC16-3C-265	2016 11 24	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	110	< 10	< 10	94	51	-	< 0.10
EXC16-3C-266	EXC16-3C-266	2016 11 24	3.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-267	EXC16-3C-267	2016 11 24	2.5	45	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-268	EXC16-3C-268	2016 11 24	1.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	12	< 100	< 100	14	< 10	< 50	< 50	-	< 0.10
EXC16-3C-270	EXC16-3C-270	2016 11 24	3.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-271	EXC16-3C-271	2016 11 24	2.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-272	EXC16-3C-272	2016 11 24	1.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-273	EXC16-3C-273	2016 11 24	0.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-274	EXC16-3C-274	2016 11 24	3.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-275	EXC16-3C-275	2016 11 24	2.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-276	EXC16-3C-276	2016 11 24	1.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-277	EXC16-3C-277	2016 11 24	0.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-286	EXC16-3C-286	2016 12 03	0.5	-	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-339	EXC16-3C-339	2016 12 06	1.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	200	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3C-D34	Duplicate	1.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3C-340	EXC16-3C-340	2016 12 06	0.3	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	51	< 50	-	< 0.10
EXC16-3C-369	EXC16-3C-369	2016 12 08	8.0	20	< 0.0050	< 0.010	0.031	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-370	EXC16-3C-370	2016 12 08	7.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-371	EXC16-3C-371	2016 12 08	6.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-372	EXC16-3C-372	2016 12 08	5.5	10	< 0.0050	< 0.010	0.028	0.069	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-373	EXC16-3C-373	2016 12 08	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-375	EXC16-3C-375	2016 12 08	7.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-3C-D40	Duplicate	7.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-3C-376	EXC16-3C-376	2016 12 08	6.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-377	EXC16-3C-377	2016 12 08	5.5	20	< 0.0050	< 0.010	0.023	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-378	EXC16-3C-378	2016 12 08	4.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-379	EXC16-3C-379	2016 12 08	7.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-380	EXC16-3C-380	2016 12 08	6.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-381	EXC16-3C-381	2016 12 08	5.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-382	EXC16-3C-382	2016 12 08	4.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-383	EXC16-3C-383	2016 12 08	8.0	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-384	EXC16-3C-384	2016 12 08	7.5	0	< 0.0050	< 0.010	0.031	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	27	63	< 50	-	< 0.10
EXC16-3C-385	EXC16-3C-385	2016 12 08	6.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	510	170	< 10	***260***	320	< 50	-	< 0.10
EXC16-3C-386	EXC16-3C-386	2016 12 08	5.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	1,300	500	< 10	***760***	980	97	-	< 0.10
	EXC16-3C-D41	Duplicate	5.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	1,100	400	< 10	***620***	750	65	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	17	*	*	20	27	*	-	*
EXC16-3C-387	EXC16-3C-387	2016 12 08	4.5	0	< 0.0050	< 0.010	0.021	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-388	EXC16-3C-388	2016 12 10	8.0	45	< 0.0050	< 0.010	0.060	0.098	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-389	EXC16-3C-389	2016 12 10	7.5	25	< 0.0050	< 0.010	***0.25***	0.15	< 0.030	< 7.0	240	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-390	EXC16-3C-390	2016 12 10	6.5	0	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	260	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-391	EXC16-3C-391	2016 12 10	5.5	0	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-392	EXC16-3C-392	2016 12 10	4.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-393	EXC16-3C-393	2016 12 10	7.5	40	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	230	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-394	EXC16-3C-394	2016 12 10	6.5	20	< 0.0050	< 0.010	< 0.040	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-395	EXC16-3C-395	2016 12 10	5.5	20	< 0.0050	< 0.010	0.036	< 0.040	< 0.030	< 7.0	210	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-396	EXC16-3C-396	2016 12 10	4.5	10	< 0.0050	< 0.010	0.054	0.16	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3C-397	EXC16-3C-397	2016 12 10	8.5	350	< 0.0050	0.029	0.030	***28***	< 0.030	190	1,600	< 100	***260***	***1,200***	210	< 50	-	< 0.10
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a	
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a	
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000	
CSR Industrial Land Use (IL) (>3.0m)[c]				0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000	

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

					Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 3C																		
EXC16-3C-398	EXC16-3C-398	2016 12 10	7.5	470	0.016	< 0.020	***0.14***	***270***	< 0.030	**1,000**	**3,600**	< 100	***1,500***	***2,800***	180	< 50	-	< 0.10
EXC16-3C-399	EXC16-3C-399	2016 12 10	6.5	550	< 0.010	< 0.020	***0.22***	***300***	< 0.030	**1,000**	**4,300**	350	***1,200***	***2,600***	660	< 50	-	< 0.10
	EXC16-3C-D42	Duplicate	6.5	550	0.012	< 0.020	***0.21***	***280***	< 0.030	**780**	**4,000**	290	***1,100***	***3,100***	690	< 50	-	< 0.10
	QA/QC RPD%				*	*	5	7	*	25	7	*	9	18	4	*	-	*
EXC16-3C-400	EXC16-3C-400	2016 12 10	5.5	100	< 0.0050	0.016	0.079	3.7	< 0.030	37	270	< 100	***44***	***180***	110	< 50	-	< 0.10
EXC16-3C-401	EXC16-3C-401	2016 12 10	4.5	160	0.011	0.058	***1.2***	***130***	< 0.030	**1,000**	1,700	210	***1,300***	***1,200***	440	< 50	-	< 0.10
Excavation Area 3D																		
EXC16-3D-278	EXC16-3D-278	2016 11 24	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3D-279	EXC16-3D-279	2016 11 24	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3D-280	EXC16-3D-280	2016 11 24	0.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	53	< 50	-	< 0.10
EXC16-3D-281	EXC16-3D-281	2016 11 24	1.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3D-282	EXC16-3D-282	2016 11 24	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3D-283	EXC16-3D-283	2016 11 24	1.5	65	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3D-284	EXC16-3D-284	2016 11 24	1.5	70	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
Excavation Area 5																		
EXC16-5-001	EXC16-5-001	2016 11 08	3.0	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-002	EXC16-5-002	2016 11 08	2.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-003	EXC16-5-003	2016 11 08	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	9.8	< 100	< 100	10	27	< 50	< 50	-	< 0.10
EXC16-5-005	EXC16-5-005	2016 11 08	3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-006	EXC16-5-006	2016 11 08	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-007	EXC16-5-007	2016 11 08	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-008	EXC16-5-008	2016 11 08	0.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-009	EXC16-5-009	2016 11 10	2.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-010	EXC16-5-010	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-011	EXC16-5-011	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.6	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-012	EXC16-5-012	2016 11 10	2.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-015	EXC16-5-015	2016 11 10	2.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	52	54	-	< 0.10
EXC16-5-018	EXC16-5-018	2016 11 10	2.5	10	< 0.0050	< 0.010	0.031	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-021	EXC16-5-021	2016 11 10	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-024	EXC16-5-024	2016 11 10	2.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-025	EXC16-5-025	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-026	EXC16-5-026	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-027	EXC16-5-027	2016 11 10	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-028	EXC16-5-028	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-029	EXC16-5-029	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-030	EXC16-5-030	2016 11 10	2.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	60	< 50	< 50	-	< 0.10
	EXC16-5-D3	Duplicate	2.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	52	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	14	*	*	-	*
EXC16-5-031	EXC16-5-031	2016 11 10	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-032	EXC16-5-032	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	200	< 10	23	180	99	-	< 0.10
EXC16-5-033	EXC16-5-033	2016 11 10	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-034	EXC16-5-034	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-036	EXC16-5-036	2016 11 10	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-037	EXC16-5-037	2016 11 10	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-038	EXC16-5-038	2016 11 10	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-039	EXC16-5-039	2016 11 10	2.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-040	EXC16-5-040	2016 11 10	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-041	EXC16-5-041	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-043	EXC16-5-043	2016 11 10	3.0	10	< 0.0050	< 0.010	< 0.020	0.048	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-045	EXC16-5-045	2016 11 10	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-046	EXC16-5-046	2016 11 10	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-047	EXC16-5-047	2016 11 10	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-5-D4	Duplicate	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-5-048	EXC16-5-048	2016 11 10	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-049	EXC16-5-049	2016 11 10	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-050	EXC16-5-050	2016 11 10	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-051	EXC16-5-051	2016 11 10	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	250	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-052	EXC16-5-052	2016 11 10	3.0	10	< 0.0050	< 0.010	0.035	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-053	EXC16-5-053	2016 11 10	3.0	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-285	EXC16-5-285	2016 11 24	4.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC17-05-498	EXC17-05-498	2017 12 07	0.5 - 0.8	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	37	< 10	< 20	40	< 20	-	-
EXC17-05-499	EXC17-05-499	2017 12 07	0.8 - 1.0	10	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	52	177	< 10	< 20	243	261	-	-
EXC17-05-500	EXC17-05-500	2017 12 07	1.0 - 1.2	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	-
	EXC17-05-501	Duplicate	1.0 - 1.2	0	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	-
	QA/QC RPD%				*	*	*	*	-	*	*	*	*	*	*	*	-	-
Excavation Area 6																		
EXC17-06-496	EXC17-06-496	2017 12 06	0.5 - 0.6	20	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	224	461	< 10	59	***759***	207	-	-
EXC17-06-497	EXC17-06-497	2017 12 06	0.6 - 0.8	25	< 0.005	< 0.01	< 0.05	< 0.05	-	< 10	< 20	20	< 10	< 20	23	< 20	-	-
Confirmatory Boreholes and Test Pits																		
BH17-69	BH17-69-01	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	17	24	< 20	18	20	< 20	< 20	-	< 0.1
	BH17-69-02	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	428	98	< 10	***294***	283	< 20	-	< 0.1
	BH17-69-03	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	252	156	< 10	116	332	26	-	< 0.1
	BH17-69-04	Duplicate	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	194	132	< 10	95	282	21	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	26	17	*	*	16	*	-	*
	BH17-69-05	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-69-06	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-69-07	2017 10 06	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-69-08	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-70	BH17-70-01	2017 10 06	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-70-02	2017 10 06	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-70-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-70-04	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-70-05	2017 10 06	3.2 - 3.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-70-06	2017 10 06	4.3 - 4.9	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	83	32	< 10	60	69	< 20	-	< 0.1
	BH17-70-07	2017 10 06	5.3 - 6.1	0	< 0.005	< 0.01	< 0.05	0.53	< 0.05	< 10	179	52	< 10	116	127	< 20	-	< 0.1
	BH17-70-08	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	0.06	< 0.05	< 10	633	82	< 10	***488***	270	< 20	-	< 0.1
	BH17-70-09	2017 10 06	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	938	240	< 10	***611***	665	44	-	< 0.1
	BH17-70-10	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	249	113	< 10	114	225	< 20	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Confirmatory Boreholes and Test Pits																		
BH17-71	BH17-71-01	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-71-02	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	0.07	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-71-03	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	0.08	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-71-04	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	43	< 20	< 10	< 20	39	< 20	-	< 0.1
	BH17-71-05	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	17	**2,980**	795	17	***1,950***	2,030	117	-	< 0.1
	BH17-71-06	2017 10 06	7.3 - 7.6	55	< 0.005	< 0.01	< 0.05	2.75	< 0.05	34	**4,650**	734	22	***3,700***	2,030	61	-	< 0.1
	BH17-71-07	2017 10 06	7.9 - 8.2	0	0.005	< 0.01	< 0.05	< 0.05	< 0.05	18	1,970	337	16	***1,550***	944	< 20	-	< 0.1
	BH17-71-08	2017 10 06	9.6 - 9.9	0	-	-	-	-	-	-	-	-	-	***821***	313	< 20	-	-
	BH17-71-09	2017 10 06	10.5 - 10.8	0	-	-	-	-	-	-	-	-	-	***1,220***	413	< 20	-	-
	BH17-71-10	2017 10 06	11.4 - 11.7	0	-	-	-	-	-	-	-	-	-	***1,220***	437	< 20	-	-
BH17-72	BH17-72-01	2017 10 05	7.9 - 8.2	0	< 0.005	0.03	0.07	0.18	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-72-02	Duplicate	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-73	BH17-73-01	2017 10 05	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-73-02	2017 10 05	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-73-03	2017 10 05	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-73-04	2017 10 05	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-73-05	2017 10 05	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-73-06	2017 10 05	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-73-07	Duplicate	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-74	BH17-74-01	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	32	< 10	< 20	33	< 20	-	< 0.1
	BH17-74-02	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-74-03	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-74-04	2017 10 06	6.4 - 6.7	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-74-05	2017 10 06	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-74-06	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-75	BH17-75-01	2017 10 05	0.3 - 0.6	990	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-02	2017 10 05	1.2 - 1.5	260	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-03	2017 10 05	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-04	2017 10 05	3.4 - 3.7	135	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-05	2017 10 05	4.4 - 4.7	80	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-06	2017 10 05	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-07	2017 10 05	6.4 - 6.7	85	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-08	2017 10 05	7.3 - 7.6	85	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-75-09	2017 10 05	7.9 - 8.2	0	< 0.005	0.01	< 0.05	0.09	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-76	BH17-76-01	2017 10 05	0.5 - 0.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-76-02	2017 10 05	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-76-03	2017 10 05	1.8 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-77	BH17-77-01	2017 10 05	2.0 - 2.3	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-78	BH17-78-01	2017 10 05	0.5 - 0.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	31	229	< 10	< 20	***350***	321	-	< 0.1
	BH17-78-02	2017 10 05	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-78-03	2017 10 05	1.8 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-79	BH17-79-01	2017 10 06	0.5 - 0.6	0	0.012	< 0.01	0.07	0.07	< 0.05	< 10	60	870	< 10	< 20	***1,030***	518	-	< 0.1
	BH17-79-02	2017 10 06	0.9 - 1.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-80	BH17-80-01	2017 10 06	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-80-02	2017 10 06	0.9 - 1.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-80-03	Duplicate	0.9 - 1.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-81	BH17-81-01	2017 10 06	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	25	< 20	-	< 0.1
	BH17-81-02	2017 10 06	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-03	2017 10 06	2.4 - 2.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-04	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-05	Duplicate	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-81-06	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-07	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-08	2017 10 06	6.4 - 6.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-09	2017 10 06	7.3 - 7.6	75	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-81-10	2017 10 06	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-82	BH17-82-01	2017 10 06	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	224	< 10	21	***381***	47	-	< 0.1
	BH17-82-02	2017 10 06	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	26	43	< 10	29	99	< 20	-	< 0.1
	BH17-82-03	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-82-04	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-82-05	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-82-06	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	96	< 20	< 10	65	58	< 20	-	< 0.1
	BH17-82-07	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	115	< 20	< 10	98	62	< 20	-	< 0.1
	BH17-82-08	2017 10 06	7.3 - 7.6	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	110	< 20	< 10	78	57	< 20	-	< 0.1
	BH17-82-09	Duplicate	7.3 - 7.6	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	83	< 20	< 10	67	47	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-82-10	2017 10 06	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	221	< 20	< 10	***194***	85	< 20	-	< 0.1
BH17-83	BH17-83-01	2017 10 07	4.4 - 4.7	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-83-02	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-83-03	2017 10 07	6.4 - 6.7	330	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-83-04	2017 10 07	7.3 - 7.6	250	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-83-05	Duplicate	7.3 - 7.6	250	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-83-06	2017 10 07	7.8 - 8.1	110	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-84	BH17-84-01	2017 10 07	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	21	< 20	-	< 0.1
	BH17-84-02	2017 10 07	1.4 - 1.7	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-84-03	2017 10 07	1.8 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-84-04	Duplicate	1.8 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-85	BH17-85-01	2017 10 07	0.3 - 0.6	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	38	22	< 10	26	54	< 20	-	< 0.1
	BH17-85-02	2017 10 07	1.4 - 1.7	45	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-85-03	2017 10 07	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-86	BH17-86-01	2017 10 07	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	51	125	< 10	< 20	183	52	-	< 0.1
	BH17-86-02	2017 10 07	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	84	< 20	< 10	42	78	< 20	-	< 0.1
	BH17-86-03	2017 10 07	1.8 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-87	BH17-87-01	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-87-02	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-87-03	Duplicate	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-87-04	2017 10 07	6.4 - 6.7	5	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-87-05	2017 10 07	7.3 - 7.6	620	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-87-06	2017 10 07	7.8 - 8.1	200	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a	
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a	
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000	
CSR Industrial Land Use (IL) (>3.0m)[c]				0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000	

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Confirmatory Boreholes and Test Pits																		
BH17-88	BH17-88-01	2017 10 07	0.5 - 0.6	190	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	21	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-02	2017 10 07	1.4 - 1.7	1,100	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-03	2017 10 07	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-04	2017 10 07	3.4 - 3.7	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-05	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-06	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-07	Duplicate	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-88-08	2017 10 07	6.4 - 6.7	65	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	37	< 20	< 10	< 20	35	< 20	-	< 0.1
	BH17-88-09	2017 10 07	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-88-10	2017 10 07	7.8 - 8.1	0	0.006	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-89	BH17-89-01	2017 10 07	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	0.30	< 0.05	35	1,980	118	***35***	***1,850***	565	< 20	-	< 0.1
	BH17-89-02	Duplicate	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	0.11	< 0.05	17	1,560	120	17	***1,470***	454	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	24	2	*	23	22	*	-	*
BH17-90	BH17-90-01	2017 10 07	7.8 - 8.1	0	< 0.005	***0.14***	< 0.05	2.76	< 0.05	55	**3,880**	134	***54***	***3,820***	687	< 20	-	< 0.1
BH17-91	BH17-91-01	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-91-02	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-91-03	2017 10 07	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-91-04	Duplicate	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-91-05	2017 10 07	7.3 - 7.6	30	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-91-06	2017 10 07	7.9 - 8.2	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-92	BH17-92-01	2017 10 07	0.5 - 0.6	350	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	66	< 20	< 10	27	50	< 20	-	< 0.1
	BH17-92-02	2017 10 07	1.4 - 1.7	5	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-03	2017 10 07	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-04	2017 10 07	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-05	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-06	2017 10 07	5.3 - 5.6	30	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-07	2017 10 07	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-08	2017 10 07	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-09	2017 10 07	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-92-10	Duplicate	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-93	BH17-93-01	2017 10 07	0.5 - 0.6	150	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-02	2017 10 07	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-03	2017 10 07	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-04	2017 10 07	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-05	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-06	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-07	2017 10 07	6.4 - 6.7	770	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-08	2017 10 07	7.3 - 7.6	115	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-93-09	2017 10 07	7.8 - 8.1	300	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-94	BH17-94-01	2017 10 07	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	398	< 20	< 10	***405***	100	< 20	-	< 0.1
BH17-95	BH17-95-01	2017 10 08	4.4 - 4.7	160	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-95-02	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-95-03	2017 10 08	6.4 - 6.7	85	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-95-04	2017 10 08	7.3 - 7.6	1,000	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-95-05	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-95-06	Duplicate	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-96	BH17-96-01	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-96-02	Duplicate	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-97	BH17-97-01	2017 10 08	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-97-02	2017 10 08	4.3 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-97-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-97-04	2017 10 08	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	22	< 10	< 20	39	< 20	-	< 0.1
	BH17-97-05	2017 10 08	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-97-06	2017 10 08	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	73	< 20	< 10	48	47	< 20	-	< 0.1
BH17-98	BH17-98-01	2017 10 08	0.5 - 0.8	175	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-98-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-98-03	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-99	BH17-99-01	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-100	BH17-100-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-100-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-100-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-100-04	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-101	BH17-101-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	39	< 10	< 20	49	< 20	-	< 0.1
	BH17-101-02	2017 10 08	0.8 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-102	BH17-102-01	2017 10 08	5.8 - 6.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-102-02	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-103	BH17-103-01	2017 10 08	3.4 - 3.7	900	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	62	< 20	< 10	53	< 20	< 20	-	< 0.1
	BH17-103-02	2017 10 08	4.4 - 4.7	30	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	109	< 20	< 10	110	44	< 20	-	< 0.1
	BH17-103-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-103-04	2017 10 08	6.4 - 6.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-103-05	2017 10 08	7.3 - 7.6	35	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-103-06	2017 10 08	7.9 - 8.1	620	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-104	BH17-104-01	2017 10 08	5.8 - 6.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	40	35	< 10	27	57	< 20	-	< 0.1
	BH17-104-02	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-105	BH17-105-01	2017 10 08	5.8 - 6.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-105-02	2017 10 08	7.9 - 8.1	110	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	23	< 20	< 20	-	< 0.1
BH17-106	BH17-106-01	2017 10 08	3.4 - 3.7	750	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-106-02	2017 10 08	4.4 - 4.7	10	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-106-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-106-04	2017 10 08	6.4 - 6.7	100	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-106-05	2017 10 08	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-106-06	Duplicate	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-106-07	2017 10 08	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-107	BH17-107-01	2017 10 08	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-107-02	2017 10 08	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-107-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-107-04	2017 10 08	6.4 - 6.6	60	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-107-05	2017 10 08	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-107-06	2017 10 08	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a	
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a	
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000	
CSR Industrial Land Use (IL) (>3.0m)[c]				0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000	

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Confirmatory Boreholes and Test Pits																		
BH17-108	BH17-108-01	2017 10 08	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-108-02	2017 10 08	0.8 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-109	BH17-109-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-109-02	2017 10 08	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-110	BH17-110-01	2017 10 08	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-110-02	Duplicate	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	80	< 10	< 20	100	56	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-111	BH17-111-02	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	**2,860**	**5,760**	< 10	***1,050***	***10,800***	***2,890***[f]	-	< 0.1
	BH17-111-01	2017 10 08	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-112	BH17-112-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	56	204	< 10	< 20	241	117	-	< 0.1
	BH17-112-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-112-03	2017 10 08	2.0 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-113	BH17-113-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-113-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-113-03	2017 10 08	2.0 - 2.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-114	BH17-114-01	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-114-02	Duplicate	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-115	BH17-115-01	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-115-02	2017 10 09	3.4 - 3.7	470	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-115-03	2017 10 09	4.3 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-115-04	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-115-05	2017 10 09	6.4 - 6.7	4,950	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-115-06	2017 10 09	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-115-07	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-116	BH17-116-01	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-116-02	Duplicate	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-117	BH17-117-01	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-117-02	2017 10 09	3.4 - 3.7	50	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-117-03	2017 10 09	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-117-04	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-117-05	2017 10 09	6.4 - 6.7	75	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-117-06	2017 10 09	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-117-07	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-118	BH17-118-01	2017 10 09	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-119	BH17-119-01	2017 10 09	0.5 - 0.6	95	< 0.005	0.01	< 0.05	0.13	< 0.05	< 10	27	92	< 10	< 20	140	42	-	< 0.1
	BH17-119-02	2017 10 09	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-119-04	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-05	2017 10 09	3.4 - 3.7	120	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-06	2017 10 09	4.4 - 4.7	240	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-07	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-08	2017 10 09	6.4 - 6.7	370	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-09	2017 10 09	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-119-10	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-120	BH17-120-01	2017 10 09	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-120-02	2017 10 09	1.4 - 1.7	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-120-03	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-120-04	2017 10 09	3.4 - 3.7	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-120-05	Duplicate	3.4 - 3.7	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-120-06	2017 10 09	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-120-07	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-120-08	2017 10 09	6.4 - 6.7	0	< 0.005	0.01	< 0.05	0.14	< 0.05	10	1,460	159	10	***1,080***	563	< 20	-	< 0.1
	BH17-120-09	2017 10 09	7.3 - 7.6	0	0.005	0.01	0.06	0.14	< 0.05	< 10	878	92	< 10	***612***	332	< 20	-	< 0.1
	BH17-120-10	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	0.09	< 0.05	< 10	691	84	< 10	***502***	326	< 20	-	< 0.1
BH17-121	BH17-121-01	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	28	982	122	28	***797***	504	< 20	-	< 0.1
	BH17-121-02	Duplicate	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	20	1,240	152	20	***908***	550	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	23	22	*	13	9	*	-	*
BH17-122	BH17-122-01	2017 10 10	0.5 - 0.6	10	< 0.005	0.01	< 0.05	0.46	< 0.05	36	**1,730**	**5,140**	***37***	***1,140***	***7,890***	***8,020***[f]	-	< 0.1
	BH17-122-02	2017 10 10	1.4 - 1.7	0	***0.452***	***0.30***	***2.92***	1.94	< 0.05	< 10	31	87	< 10	< 20	118	72	-	< 0.1
	BH17-122-03	2017 10 10	2.4 - 2.6	50	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	21	< 20	< 20	-	< 0.1
	BH17-122-04	2017 10 10	2.9 - 3.0	5	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-123	BH17-123-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-123-02	2017 10 10	1.4 - 1.7	60	< 0.005	***0.23***	< 0.05	0.27	< 0.05	29	443	86	30	***367***	198	52	-	< 0.1
	BH17-123-03	2017 10 10	2.3 - 2.6	260	< 0.005	***1.60***	< 0.05	1.28	< 0.05	138	**4,790**	163	***142***	***4,350***	604	22	-	< 0.1
	BH17-123-04	2017 10 10	2.9 - 3.0	55	< 0.005	0.02	< 0.05	< 0.05	< 0.05	< 10	838	42	< 10	***715***	116	< 20	-	< 0.1
	BH17-123-05	2017 10 10	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-123-06	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-124	BH17-124-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	32	165	< 10	< 20	185	49	-	< 0.1
	BH17-124-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	28	< 20	< 20	-	< 0.1
	BH17-124-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	24	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-124-04	2017 10 10	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-125	BH17-125-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-125-02	2017 10 10	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-126	BH17-126-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	210	**1,280**	< 10	49	***1,610***	464	-	< 0.1
	BH17-126-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	70	**1,740**	< 10	28	***2,140***	1,140[f]	-	< 0.1
	BH17-126-03	2017 10 10	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	23	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-126-04	Duplicate	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	24	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-126-05	2017 10 10	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	27	< 10	< 20	29	< 20	-	< 0.1
BH17-127	BH17-127-01	2017 10 10	0.5 - 0.6	0	0.011	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	300	< 10	33	***474***	316	-	< 0.1
	BH17-127-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-03	2017 10 10	2.3 - 2.6	280	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-04	2017 10 10	3.4 - 3.7	55	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-05	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-06	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-07	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-08	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-127-09	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a	
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]				0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a	
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]				0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000	
CSR Industrial Land Use (IL) (>3.0m)[c]				0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000	

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

					Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Confirmatory Boreholes and Test Pits																		
BH17-128	BH17-128-01	2017 10 10	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	21	**1,220**	< 20	23	***1,300***	232	< 20	-	< 0.1
	BH17-128-02	Duplicate	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	16	**1,830**	< 20	17	***1,600***	275	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	40	*	*	21	17	*	-	*
	BH17-128-04	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	401	< 20	< 10	***331***	85	< 20	-	< 0.1
	BH17-128-05	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	105	< 20	< 10	75	35	< 20	-	< 0.1
	BH17-128-06	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	299	< 20	< 10	***228***	67	< 20	-	< 0.1
	BH17-128-07	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	517	35	< 10	***369***	207	< 20	-	< 0.1
	BH17-128-08	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	406	42	< 10	***287***	188	< 20	-	< 0.1
BH17-129	BH17-129-01	2017 10 10	0.5 - 0.6	0	0.014	< 0.01	0.08	0.05	< 0.05	< 10	38	60	< 10	< 20	61	27	-	< 0.1
	BH17-129-02	Duplicate	0.5 - 0.6	0	< 0.005	0.04	< 0.05	0.59	< 0.05	< 10	38	62	< 10	< 20	68	28	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-129-03	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	65	97	< 10	< 20	120	46	-	< 0.1
	BH17-129-04	2017 10 10	2.3 - 2.6	0	0.012	< 0.01	0.07	0.05	< 0.05	< 10	62	65	< 10	20	84	32	-	< 0.1
	BH17-129-05	2017 10 10	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	451	91	< 10	***297***	256	40	-	< 0.1
	BH17-129-06	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	1,760	38	< 10	***1,680***	360	< 20	-	< 0.1
	BH17-129-07	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	1,380	32	< 10	***1,210***	258	< 20	-	< 0.1
	BH17-129-08	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	22	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-129-09	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	38	23	< 10	< 20	25	< 20	-	< 0.1
	BH17-129-10	2017 10 10	7.8 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	175	28	< 10	94	93	< 20	-	< 0.1
BH17-130	BH17-130-01	2017 10 10	0.5 - 0.6	95	0.009	0.05	0.06	0.67	< 0.05	43	**12,900**	700	***47***	***11,500***	***2,550***	120	-	< 0.1
	BH17-130-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	227	167	< 10	95	266	42	-	< 0.1
	BH17-130-03	2017 10 10	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-130-04	2017 10 10	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-131	BH17-131-01	2017 10 10	0.5 - 0.6	0	***0.088***	0.01	***0.36***	0.16	< 0.05	< 10	28	63	< 10	< 20	63	29	-	< 0.1
	BH17-131-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	30	58	< 10	< 20	57	26	-	< 0.1
	BH17-131-03	2017 10 10	2.3 - 2.6	0	0.020	< 0.01	0.09	0.06	< 0.05	< 10	36	58	< 10	< 20	65	25	-	< 0.1
	BH17-131-04	2017 10 10	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	28	187	< 10	< 20	203	96	-	< 0.1
BH17-132	BH17-132-01	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-132-02	Duplicate	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-133	BH17-133-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-03	2017 10 10	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-04	2017 10 10	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-05	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-06	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-07	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-08	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-133-09	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-134	BH17-134-01	2017 10 10	7.9 - 8.1	50	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	18	**5,550**	182	19	***5,380***	842	25	-	< 0.1
BH17-135	BH17-135-01	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	129	20	< 10	98	68	< 20	-	< 0.1
BH17-136	BH17-136-01	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	97	26	< 10	44	84	< 20	-	< 0.1
BH17-137	BH17-137-01	2017 10 11	0.3 - 0.6	0	0.006	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	34	< 10	< 20	44	< 20	-	< 0.1
	BH17-137-02	Duplicate	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	32	< 10	< 20	54	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-137-03	2017 10 11	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	23	< 20	-	< 0.1
	BH17-137-04	2017 10 11	2.4 - 2.7	0	0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	60	< 20	< 10	< 20	67	< 20	-	< 0.1
	BH17-137-05	2017 10 11	3.4 - 3.7	30	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	27	< 20	< 10	< 20	38	< 20	-	< 0.1
	BH17-137-06	2017 10 11	4.4 - 4.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	430	142	< 10	139	479	< 20	-	< 0.1
	BH17-137-07	2017 10 11	5.3 - 5.6	0	0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	231	87	< 10	71	282	< 20	-	< 0.1
	BH17-137-08	2017 10 11	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	27	< 20	-	< 0.1
	BH17-137-09	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	39	22	< 10	< 20	54	< 20	-	< 0.1
	BH17-137-10	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	97	54	< 10	22	140	< 20	-	< 0.1
BH17-138	BH17-138-01	2017 10 11	0.5 - 0.8	1,100	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	131	< 10	< 20	139	52	-	< 0.1
	BH17-138-02	2017 10 11	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-04	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-05	Duplicate	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-138-06	2017 10 11	4.3 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-07	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-08	2017 10 11	6.4 - 6.7	0	< 0.005	0.01	< 0.05	0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-09	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-138-10	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-139	BH17-139-01	2017 10 11	0.3 - 0.6	75	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	530	489	< 10	***460***	***783***	248	-	< 0.1
	BH17-139-02	2017 10 11	1.4 - 1.7	0	< 0.005	< 0.01	0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-04	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-05	2017 10 11	4.3 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-06	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-07	2017 10 11	6.4 - 6.7	45	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-08	2017 10 11	7.3 - 7.6	0	< 0.005	0.01	< 0.05	0.08	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-139-09	Duplicate	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-139-10	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-140	BH17-140-01	2017 10 11	0.3 - 0.6	240	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	126	510	< 10	21	***608***	272	-	< 0.1
	BH17-140-02	2017 10 11	1.4 - 1.7	80	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	437	59	< 10	***244***	186	< 20	-	< 0.1
	BH17-140-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	99	< 20	< 10	34	67	< 20	-	< 0.1
	BH17-140-04	2017 10 11	3.4 - 3.7	110	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-140-05	2017 10 11	4.3 - 4.6	440	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-140-06	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-140-07	Duplicate	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-140-08	2017 10 11	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-140-09	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-140-10	2017 10 11	7.8 - 7.9	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-141	BH17-141-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	52	442	< 10	22	***693***	704[f]	-	< 0.1
	BH17-141-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	36	445	< 10	< 20	***790***	892[f]	-	< 0.1
BH17-142	BH17-142-01	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-142-02	Duplicate	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Confirmatory Boreholes and Test Pits																		
BH17-143	BH17-143-01	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-143-02	2017 10 11	4.3 - 4.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-143-03	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-143-04	2017 10 11	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-143-05	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-143-06	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-144	BH17-144-01	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-145	BH17-145-01	2017 10 11	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-145-02	Duplicate	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-145-03	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-145-04	2017 10 11	4.4 - 4.7	105	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-145-05	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-145-06	2017 10 11	6.4 - 6.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-145-07	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-145-08	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-146	BH17-146-01	2017 10 11	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-147	BH17-147-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	21	65	< 10	< 20	74	64	-	< 0.1
	BH17-147-02	2017 10 11	1.4 - 1.7	15	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	45	44	< 10	< 20	78	< 20	-	< 0.1
	BH17-147-03	2017 10 11	1.8 - 2.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-148	BH17-148-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	27	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-148-02	2017 10 11	1.4 - 1.7	4,180	< 0.005	***13.8***	***0.75***	***50.5***	< 0.05	**1,600**	**2,740**	**4,940**	***1,610***	***1,720***	***4,670***	975	-	< 0.1
	BH17-148-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-149	BH17-149-01	2017 10 11	0.9 - 1.1	0	0.013	< 0.01	0.08	< 0.05	< 0.05	< 10	20	275	< 10	< 20	***326***	204	-	< 0.1
BH17-150	BH17-150-01	2017 10 11	0.5 - 0.6	15	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-150-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-150-03	Duplicate	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-151	BH17-151-01	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-152	BH17-152-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	81	< 10	< 20	120	77	-	< 0.1
	BH17-152-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-153	BH17-153-01	2017 10 11	0.5 - 0.6	10	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	91	< 10	< 20	140	40	-	< 0.1
	BH17-153-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-153-03	Duplicate	0.9 - 1.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
BH17-154	BH17-154-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	43	< 10	< 20	57	< 20	-	< 0.1
	BH17-154-02	2017 10 11	0.9 - 1.1	0	< 0.005	0.01	< 0.05	0.08	< 0.05	< 10	**1,940**	829	< 10	***738***	***1,510***	68	-	< 0.1
	BH17-154-03	2017 10 11	1.4 - 1.7	0	< 0.005	0.02	< 0.05	0.13	< 0.05	10	**3,200**	865	12	***2,820***	***1,810***	368	-	< 0.1
	BH17-154-04	2017 10 11	2.3 - 2.6	0	< 0.005	0.06	< 0.05	0.17	< 0.05	< 10	34	< 20	10	< 20	46	< 20	-	< 0.1
	BH17-154-05	2017 10 11	2.9 - 3.0	0	< 0.005	0.02	< 0.05	0.08	< 0.05	< 10	20	< 20	< 10	< 20	31	< 20	-	< 0.1
BH17-155	BH17-155-01	2017 10 12	2.4 - 2.6	0	0.006	0.01	< 0.05	< 0.05	< 0.05	< 10	62	26	< 10	28	89	< 20	-	< 0.1
	BH17-155-02	2017 10 12	3.4 - 3.7	0	< 0.005	0.04	< 0.05	0.12	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-155-03	2017 10 12	4.3 - 4.6	0	< 0.005	0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-155-04	2017 10 12	5.3 - 5.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-155-05	2017 10 12	6.4 - 6.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-155-06	2017 10 12	7.3 - 7.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-155-07	2017 10 12	7.9 - 8.1	0	< 0.005	0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-156	BH17-156-03	2017 10 12	1.4 - 1.5	0	< 0.005	0.05	< 0.05	0.15	< 0.05	< 10	< 20	< 20	10	< 20	< 20	< 20	-	< 0.1
	BH17-156-04	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-156-05	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-157	BH17-157-01	2017 10 12	0.5 - 0.6	15	< 0.005	0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-157-02	2017 10 12	1.4 - 1.7	45	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-157-03	2017 10 12	2.3 - 2.6	0	< 0.005	0.06	< 0.05	0.13	< 0.05	17	< 20	< 20	17	< 20	< 20	< 20	-	< 0.1
	BH17-157-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-158	BH17-158-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	20	< 10	< 20	23	< 20	-	< 0.1
	BH17-158-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-159	BH17-159-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-159-02	2017 10 12	1.4 - 1.7	125	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-159-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-159-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-160	BH17-160-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-160-02	Duplicate	0.5 - 0.6	0	< 0.005	0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-160-03	2017 10 12	1.4 - 1.5	0	< 0.005	0.01	< 0.05	< 0.05	< 0.05	11	< 20	< 20	12	< 20	< 20	< 20	-	< 0.1
BH17-161	BH17-161-01	2017 10 12	0.5 - 0.6	180	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-161-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-161-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-161-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-162	BH17-162-01	2017 10 12	0.5 - 0.6	780	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-162-02	2017 10 12	1.4 - 1.7	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-162-03	2017 10 12	2.4 - 2.7	30	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-162-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-163	BH17-163-05	2017 10 12	3.4 - 3.7	15	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	24	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-164	BH17-164-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	239	< 10	< 20	247	158	-	< 0.1
	BH17-164-02	2017 10 12	1.4 - 1.7	270	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	30	60	< 10	< 20	87	< 20	-	< 0.1
	BH17-164-03	2017 10 12	2.4 - 2.7	25	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	22	< 20	-	< 0.1
	BH17-164-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-165	BH17-165-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-165-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-166	BH17-166-01	2017 10 12	0.3 - 0.6	15	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	32	< 20	< 10	< 20	40	< 20	-	< 0.1
	BH17-166-02	2017 10 12	1.4 - 1.5	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-167	BH17-167-01	2017 10 12	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-167-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	59	< 10	< 20	77	123	-	< 0.1
	BH17-167-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-167-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-168	BH17-168-02	2017 10 12	1.4 - 1.7	135	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-168-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-168-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-169	BH17-169-01	2017 10 12	0.3 - 0.6	50	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	30	80	< 10	< 40	141	< 40	-	< 0.1
	BH17-169-02	2017 10 12	1.4 - 1.7	400	0.005	***0.96***	< 0.05	0.32	< 0.05	161	182	**1,440**	***166***	***163***	***1,930***	196	-	< 0.1
BH17-170	BH17-170-01	2017 10 12	0.5 - 0.6	720	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-170-02	2017 10 12	1.4 - 1.7	80	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-174	BH17-174-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	63	203	< 10	52	259	124	-	< 0.1
	BH17-174-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-175	BH17-175-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	21	< 10	< 20	24	31	-	< 0.1
	BH17-175-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 9 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Confirmatory Boreholes and Test Pits																		
BH17-176	BH17-176-01	2017 10 13	0.5 - 0.6	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-176-02	Duplicate	0.5 - 0.6	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-176-03	2017 10 13	1.4 - 1.7	5	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-177	BH17-177-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	33	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-177-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-178	BH17-178-01	2017 10 13	0.3 - 0.6	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-178-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-179	BH17-179-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	20	< 20	-	< 0.1
	BH17-179-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
BH17-180	BH17-180-01	2017 10 13	0.5 - 0.6	80	< 0.005	< 0.01	< 0.05	< 0.1	< 0.05	< 10	< 20	49	< 10	< 20	64	< 20	-	< 0.1
	BH17-180-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.1	< 0.05	< 10	< 20	32	< 10	< 20	45	< 20	-	< 0.1
TP17-03	TP17-03-01	2017 11 24	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	30	< 10	< 20	< 20	< 20	-	< 0.1
	TP17-03-02	2017 11 24	0.6 - 0.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	37	< 10	< 20	< 20	< 20	-	< 0.1
TP17-04	TP17-04-01	2017 11 24	3.0 - 3.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	TP17-04-02	Duplicate	3.0 - 3.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
TP17-05	TP17-05-01	2017 11 24	3.0 - 3.1	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	21	< 10	< 20	< 20	< 20	-	< 0.1
TP17-06	TP17-06-01	2017 11 25	1.5 - 1.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
TP17-07	TP17-07-01	2017 11 25	1.4 - 1.5	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	TP17-07-02	2017 11 25	1.5 - 1.7	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
TP17-08	TP17-08-01	2017 11 25	3.0	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)[b]					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 10: Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 1																											
EXC16-1-096	EXC16-1-096	2016 11 13	2.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-097	EXC16-1-097	2016 11 13	1.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	EXC16-1-D9	Duplicate	1.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-098	EXC16-1-098	2016 11 13	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-099	EXC16-1-099	2016 11 13	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-100	EXC16-1-100	2016 11 13	1.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-101	EXC16-1-101	2016 11 13	0.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-102	EXC16-1-102	2016 11 13	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-103	EXC16-1-103	2016 11 13	1.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-104	EXC16-1-104	2016 11 13	0.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-105	EXC16-1-105	2016 11 13	2.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-106	EXC16-1-106	2016 11 13	1.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	EXC16-1-D10	Duplicate	1.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-107	EXC16-1-107	2016 11 13	0.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-111	EXC16-1-111	2016 11 13	2.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-112	EXC16-1-112	2016 11 13	1.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-113	EXC16-1-113	2016 11 13	0.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-114	EXC16-1-114	2016 11 13	2.5	0	< 0.0050	-	0.0060	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-115	EXC16-1-115	2016 11 13	1.5	0	< 0.0050	-	< 0.0050	0.0056	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-116	EXC16-1-116	2016 11 13	0.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	EXC16-1-D11	Duplicate	0.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-117	EXC16-1-117	2016 11 13	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	EXC16-1-D12	Duplicate	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-118	EXC16-1-118	2016 11 13	1.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-119	EXC16-1-119	2016 11 13	0.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-120	EXC16-1-120	2016 11 14	2.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-121	EXC16-1-121	2016 11 14	1.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-122	EXC16-1-122	2016 11 14	0.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-123	EXC16-1-123	2016 11 14	3.0	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-125	EXC16-1-125	2016 11 14	3.0	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-126	EXC16-1-126	2016 11 14	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-127	EXC16-1-127	2016 11 14	1.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-128	EXC16-1-128	2016 11 14	0.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-142	EXC16-1-142	2016 11 16	3.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-143	EXC16-1-143	2016 11 16	3.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-144	EXC16-1-144	2016 11 16	3.5	30	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-145	EXC16-1-145	2016 11 16	2.5	30	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-146	EXC16-1-146	2016 11 16	1.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-147	EXC16-1-147	2016 11 16	0.5	40	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-148	EXC16-1-148	2016 11 16	3.0	70	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-149	EXC16-1-149	2016 11 16	2.5	40	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-150	EXC16-1-150	2016 11 16	1.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 1																											
EXC16-1-151	EXC16-1-151	2016 11 16	0.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-152	EXC16-1-152	2016 11 16	2.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-153	EXC16-1-153	2016 11 16	1.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-154	EXC16-1-154	2016 11 16	0.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-155	EXC16-1-155	2016 11 16	2.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-156	EXC16-1-156	2016 11 16	1.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-157	EXC16-1-157	2016 11 16	0.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-158	EXC16-1-158	2016 11 17	4.0	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-159	EXC16-1-159	2016 11 17	4.0	20	< 0.010	-	< 0.020	< 0.0050	0.12	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-160	EXC16-1-160	2016 11 17	4.0	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-165	EXC16-1-165	2016 11 18	5.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-166	EXC16-1-166	2016 11 18	4.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-167	EXC16-1-167	2016 11 18	3.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-168	EXC16-1-168	2016 11 18	5.5	20	< 0.0050	-	0.0072	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	EXC16-1-D16	Duplicate	5.5	20	0.0057	-	0.013	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*	*	*
EXC16-1-169	EXC16-1-169	2016 11 18	4.5	10	< 0.0050	-	0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-170	EXC16-1-170	2016 11 18	3.5	10	< 0.0050	-	0.024	0.013	< 0.0050	0.0063	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-171	EXC16-1-171	2016 11 18	5.5	20	0.0070	-	0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-172	EXC16-1-172	2016 11 18	4.5	10	0.0057	-	0.017	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-177	EXC16-1-177	2016 11 18	3.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-178	EXC16-1-178	2016 11 18	3.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	EXC16-1-D18	Duplicate	3.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*	*	*
EXC16-1-179	EXC16-1-179	2016 11 19	5.5	30	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-180	EXC16-1-180	2016 11 19	4.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-184	EXC16-1-184	2016 11 19	5.5	5	< 0.0050	-	0.017	0.013	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.020	< 0.10	< 0.10
EXC16-1-185	EXC16-1-185	2016 11 19	4.5	5	***0.014***	-	< 0.031	0.015	< 0.0050	0.019	0.0073	0.041	< 0.015	0.080	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030	< 0.10	< 0.10
EXC16-1-186	EXC16-1-186	2016 11 19	3.5	25	***0.52***	-	2.1	0.042	0.12	***0.30***	***0.62***	0.055	< 0.0080	0.040	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.28	< 0.10	< 0.10
EXC16-1-190	EXC16-1-190	2016 11 19	5.5	30	< 0.056[a]	-	0.012	0.032	< 0.035	0.053	< 0.0050	0.021	< 0.0050	0.036	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.72	< 0.10	< 0.10
EXC16-1-191	EXC16-1-191	2016 11 19	4.5	20	***0.025***	-	< 0.0050	0.022	0.068	0.036	< 0.0062	0.016	< 0.0050	0.024	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.059	< 0.10	< 0.10
EXC16-1-192	EXC16-1-192	2016 11 19	3.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-193	EXC16-1-193	2016 11 19	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-194	EXC16-1-194	2016 11 19	1.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
EXC16-1-195	EXC16-1-195	2016 11 19	0.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	EXC16-1-D20	Duplicate	0.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*	*	*
EXC16-1-198	EXC16-1-198	2016 11 20	3.0	40	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
	EXC16-1-D21	Duplicate	3.0	40	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	-	*	*
EXC16-1-199	EXC16-1-199	2016 11 20	2.5	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-200	EXC16-1-200	2016 11 20	5.5	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 1																											
EXC16-1-201	EXC16-1-201	2016 11 20	4.5	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-202	EXC16-1-202	2016 11 20	3.5	25	***0.015***	-	0.070	< 0.0050	< 0.0050	< 0.020	0.015	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-203	EXC16-1-203	2016 11 20	5.5	30	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-204	EXC16-1-204	2016 11 20	4.5	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-205	EXC16-1-205	2016 11 20	3.5	35	***0.046***	-	0.084	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
	EXC16-1-D22	Duplicate	3.5	35	***0.069***	-	0.13	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
	QA/QC RPD%				40	-	43	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	-	*	*
EXC16-1-206	EXC16-1-206	2016 11 20	5.5	30	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-207	EXC16-1-207	2016 11 20	4.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-208	EXC16-1-208	2016 11 20	3.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-209	EXC16-1-209	2016 11 20	5.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-210	EXC16-1-210	2016 11 20	4.5	15	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-211	EXC16-1-211	2016 11 20	3.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-214	EXC16-1-214	2016 11 21	6.0	40	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-216	EXC16-1-216	2016 11 21	2.5	20	***0.067***	-	0.29	< 0.0050	< 0.0050	0.055	***0.059***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-217	EXC16-1-217	2016 11 21	1.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-218	EXC16-1-218	2016 11 21	0.5	15	***0.041***	-	0.21	< 0.0050	0.012	0.039	***0.065***	< 0.0040	0.055	0.036	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-219	EXC16-1-219	2016 11 21	2.5	15	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-220	EXC16-1-220	2016 11 21	2.5	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-221	EXC16-1-221	2016 11 21	2.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-223	EXC16-1-223	2016 11 21	2.5	15	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-226	EXC16-1-226	2016 11 21	3.0	15	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-227	EXC16-1-227	2016 11 21	3.0	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-402	EXC16-1-402	2016 12 12	8.0	20	***0.050***	-	0.25	0.062	0.19	***0.30***	***0.16***	0.034	< 0.0050	0.023	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-403	EXC16-1-403	2016 12 12	8.0	10	< 0.0050	-	0.015	0.030	0.019	0.018	< 0.0050	0.016	< 0.0050	0.019	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-404	EXC16-1-404	2016 12 12	8.0	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-405	EXC16-1-405	2016 12 12	8.0	20	0.0057	-	0.027	0.041	0.026	0.070	< 0.0050	0.062	< 0.0050	0.033	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-406	EXC16-1-406	2016 12 12	8.0	35	***0.16***	-	0.14	< 0.14	0.11	0.18	< 0.050[a]	0.24	< 0.050	0.12	< 0.050	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.59
EXC16-1-407	EXC16-1-407	2016 12 12	8.0	35	< 0.0050	-	0.011	0.034	0.019	0.018	< 0.0050	0.021	< 0.0050	0.033	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-1-D43	Duplicate	8.0	35	< 0.0050	-	0.011	0.035	0.013	0.013	< 0.0050	0.020	< 0.0050	0.033	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	3	*	*	*	5	*	0	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-408	EXC16-1-408	2016 12 13	7.5	5	***0.054***	-	0.35	0.013	0.022	0.022	***0.051***	0.0059	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-409	EXC16-1-409	2016 12 13	6.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-410	EXC16-1-410	2016 12 13	5.5	20	< 0.0050	-	0.031	< 0.0050	< 0.0050	< 0.0050	0.016	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-411	EXC16-1-411	2016 12 13	4.5	10	***1.1***	-	5.9	0.089	0.21	0.079	***0.43***	0.020	< 0.0050	0.0096	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-412	EXC16-1-412	2016 12 13	4.0	25	***2.4***	-	13	0.11	0.22	0.061	***0.73***	0.024	< 0.0050	0.013	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-413	EXC16-1-413	2016 12 13	7.5	20	***0.58***	-	4.1	0.11	0.23	0.10	***0.68***	0.032	< 0.0050	0.023	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-414	EXC16-1-414	2016 12 13	6.5	20	***1.8***	-	13	0.21	***0.43***	0.21	***0.56***	0.024	< 0.0050	0.011	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-415	EXC16-1-415	2016 12 13	5.5	25	***2.7***	-	16	0.19	***0.44***	0.22	***0.87***	0.038	< 0.0050	0.022	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-416	EXC16-1-416	2016 12 13	4.5	20	***0.99***	-	4.6	0.069	0.16	0.051	***0.36***	0.016	< 0.0050	0.0090	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-417	EXC16-1-417	2016 12 13	7.5	10	***0.026***	-	0.24	0.0056	0.010	0.0090	0.046	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-418	EXC16-1-418	2016 12 13	6.5	10	***0.41***	-	3.6	0.071	0.14	0.11	***0.45***	0.021	< 0.0050	0.014	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-419	EXC16-1-419	2016 12 13	5.5	10	***0.31***	-	2.2	0.034	0.077	0.048	***0.21***	0.0087	< 0.0050	0.0063	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-420	EXC16-1-420	2016 12 13	4.5	5	***0.018***	-	0.23	0.0080	0.012	0.011	***0.052***	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-421	EXC16-1-421	2016 12 13	3.5	5	< 0.0050	-	0.017	< 0.0050	< 0.0050	< 0.0050	0.0060	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-422	EXC16-1-422	2016 12 13	7.5	5	***0.066***	-	0.042	0.014	0.062	0.068	0.029	0.19	0.014	0.096	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-423	EXC16-1-423	2016 12 13	6.5	20	< 0.0050	-	0.023	0.021	0.013	0.036	< 0.0050	0.039	< 0.0050	0.10	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 1																											
EXC16-1-424	EXC16-1-424	2016 12 13	7.5	15	***0.15***	-	0.12	0.021	0.16	0.10	< 0.0050	0.062	< 0.0050	0.015	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-425	EXC16-1-425	2016 12 13	6.5	20	***0.20***	-	0.13	< 0.033	0.18	0.12	0.0092	0.056	< 0.0050	0.010	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-426	EXC16-1-426	2016 12 13	2.5	160	***3.1***	-	13	0.18	***0.55***	***1.1***	***2.0***	0.16	0.015	0.11	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-1-D44	Duplicate	2.5	160	***3.8***	-	15	0.21	***0.60***	***1.3***	***2.2***	0.15	0.013	0.12	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			20	-	14	15	9	17	10	6	*	9	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-427	EXC16-1-427	2016 12 13	1.5	130	***16***	-	31	0.76	***1.6***	***3.5***	***3.4***	0.29	0.018	0.18	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-1-D45	Duplicate	1.5	130	***13***	-	35	0.55	***1.5***	***3.4***	***3.6***	0.39	< 0.050	0.19	< 0.050	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.59
		QA/QC RPD%			21	-	12	32	6	3	6	29	*	5	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-428	EXC16-1-428	2016 12 13	0.5	65	***12***	-	4.2	0.71	***2.5***	***4.9***	***2.6***	0.24	0.014	0.17	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-429	EXC16-1-429	2016 12 13	7.5	10	0.0091	-	0.022	0.015	0.024	0.0080	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-430	EXC16-1-430	2016 12 13	6.5	5	0.0097	-	0.022	0.017	0.029	0.010	< 0.0050	0.0072	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-431	EXC16-1-431	2016 12 14	7.5	15	***0.46***	-	3.6	0.082	0.028	0.048	***0.24***	< 0.0040	< 0.0050	0.0065	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-432	EXC16-1-432	2016 12 14	6.5	15	***0.24***	-	2.3	0.054	0.030	0.0094	***0.19***	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-433	EXC16-1-433	2016 12 14	7.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-434	EXC16-1-434	2016 12 14	6.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-435	EXC16-1-435	2016 12 14	7.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-436	EXC16-1-436	2016 12 14	6.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-457	EXC16-1-457	2016 12 15	7.5	10	< 0.0050	-	0.041	< 0.0050	< 0.0050	< 0.0050	0.032	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-458	EXC16-1-458	2016 12 15	6.5	0	< 0.0050	-	0.022	< 0.0050	< 0.0050	< 0.0050	0.013	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-459	EXC16-1-459	2016 12 16	7.5	20	< 0.0050	-	0.0070	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-1-D48	Duplicate	7.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-460	EXC16-1-460	2016 12 16	6.5	5	< 0.0050	-	0.0070	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-461	EXC16-1-461	2016 12 16	6.2	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-462	EXC16-1-462	2016 12 16	7.5	5	< 0.0050	-	0.0087	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-463	EXC16-1-463	2016 12 16	6.5	5	< 0.0050	-	0.0067	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-464	EXC16-1-464	2016 12 16	6.2	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-465	EXC16-1-465	2016 12 16	4.8	0	< 0.0050	-	< 0.0050	0.0072	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-466	EXC16-1-466	2016 12 16	3.5	5	< 0.0050	-	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-467	EXC16-1-467	2016 12 16	3.2	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-468	EXC16-1-468	2016 12 16	3.2	5	< 0.0050	-	0.0091	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-469	EXC16-1-469	2016 12 16	2.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-470	EXC16-1-470	2016 12 16	2.5	0	***0.016***	-	0.045	0.028	0.0065	< 0.0050	0.011	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-471	EXC16-1-471	2016 12 16	1.5	10	***0.033***	-	0.039	0.055	0.022	0.012	***0.21***	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-472	EXC16-1-472	2016 12 16	0.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-473	EXC16-1-473	2016 12 16	6.2	10	***0.017***	-	0.045	< 0.0050	< 0.0050	0.0057	0.0088	< 0.0040	< 0.0050	0.0058	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-1-D49	Duplicate	6.2	10	0.0090	-	0.042	< 0.0050	< 0.0050	0.0056	0.0059	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	7	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-474	EXC16-1-474	2016 12 17	1.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.0063	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-475	EXC16-1-475	2016 12 17	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-476	EXC16-1-476	2016 12 17	1.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-477	EXC16-1-477	2016 12 17	0.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-478	EXC16-1-478	2016 12 17	1.3	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-479	EXC16-1-479	2016 12 17	0.3	15	0.0092	-	0.025	< 0.0050	< 0.0050	< 0.0050	0.013	0.028	< 0.0050	0.0073	< 0.0050	< 0.0050	-	-	0.0076	< 0.0050	< 0.0050	0.0063	< 0.0050	0.012	-	< 0.10	< 0.10
EXC16-1-480	EXC16-1-480	2016 12 17	1.8	60	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-1-D50	Duplicate	1.8	60	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

					Polycyclic Aromatic Hydrocarbons																						
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 1																											
EXC16-1-481	EXC16-1-481	2016 12 17	1.5	55	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-482	EXC16-1-482	2016 12 17	1.5	40	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-483	EXC16-1-483	2016 12 17	1.2	35	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-484	EXC16-1-484	2016 12 17	0.4	10	0.0082	-	0.019	< 0.0050	< 0.0050	< 0.0050	0.0063	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-485	EXC16-1-485	2016 12 17	1.5	45	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-486	EXC16-1-486	2016 12 17	1.2	30	< 0.0050	-	0.0065	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-487	EXC16-1-487	2016 12 17	0.4	45	***0.39***	-	23	0.072	0.23	***0.47***	***0.32***	0.018	0.0071	0.018	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-488	EXC16-1-488	2016 12 17	1.2	30	< 0.0050	-	0.0062	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-489	EXC16-1-489	2016 12 17	0.4	120	***0.99***	-	1.0	0.039	0.089	0.15	***0.10***	0.013	0.024	0.037	0.0057	0.0070	-	-	0.015	< 0.0050	0.0062	0.0057	< 0.0050	0.0064	-	< 0.10	0.16
	EXC16-1-D51	Duplicate	0.4	120	***0.94***	-	1.1	0.050	0.10	0.15	***0.11***	0.012	0.024	0.037	0.0059	0.0057	-	-	0.012	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0069	-	< 0.10	0.13
	QA/QC RPD%				5	-	10	25	12	0	10	*	*	0	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-490	EXC16-1-490	2016 12 17	1.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-491	EXC16-1-491	2016 12 17	1.2	35	***0.42***	-	0.58	0.023	0.032	0.067	***0.097***	0.022	0.11	0.10	0.033	0.029	-	-	0.040	0.013	0.026	0.016	< 0.0050	0.016	-	< 0.10	0.53
	EXC16-1-D52	Duplicate	1.2	35	***0.42***	-	0.60	0.050	0.041	0.097	***0.42***	0.12	0.58	0.49	0.23	0.18	-	-	0.23	0.080	0.19	0.094	0.021	0.090	-	0.28	***3.4***
	QA/QC RPD%				0	-	3	*	25	37	125	138	136	132	150	144	-	-	141	*	152	*	*	*	-	*	146
EXC16-1-492	EXC16-1-492	2016 12 17	0.4	15	***0.37***	-	2.0	0.19	***0.99***	***0.82***	***2.3***	0.79	8.4	6.4	***1.4***	1.5	-	-	0.86	0.30	0.45	0.13	0.040	0.10	-	0.77	***14***
EXC16-1-493	EXC16-1-493	2016 12 17	1.2	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-1-494	EXC16-1-494	2016 12 17	0.4	45	***0.36***	-	0.72	0.028	0.052	0.10	***0.11***	0.016	0.020	0.027	0.0051	0.0061	-	-	0.0083	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0056	-	< 0.10	0.10
EXC16-1-495	EXC16-1-495	2016 12 17	1.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Excavation Area 2																											
EXC16-2-437	EXC16-2-437	2016 12 14	3.0	75	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-2-D46	Duplicate	3.0	75	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-2-438	EXC16-2-438	2016 12 14	2.5	50	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-2-D47	Duplicate	2.5	50	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-2-439	EXC16-2-439	2016 12 14	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-440	EXC16-2-440	2016 12 14	0.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-441	EXC16-2-441	2016 12 14	2.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-442	EXC16-2-442	2016 12 14	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-443	EXC16-2-443	2016 12 14	0.5	15	< 0.0050	-	0.0085	< 0.0050	< 0.0050	< 0.0050	0.012	0.015	< 0.0050	0.0085	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-444	EXC16-2-444	2016 12 14	3.0	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-445	EXC16-2-445	2016 12 14	2.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-446	EXC16-2-446	2016 12 14	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-447	EXC16-2-447	2016 12 14	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-448	EXC16-2-448	2016 12 14	2.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-449	EXC16-2-449	2016 12 14	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-450	EXC16-2-450	2016 12 14	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-451	EXC16-2-451	2016 12 14	2.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-452	EXC16-2-452	2016 12 14	1.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-453	EXC16-2-453	2016 12 14	0.5	20	***0.026***	-	0.029	0.016	0.047	0.0085	< 0.0050	0.012	< 0.0050	0.017	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-454	EXC16-2-454	2016 12 14	2.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-455	EXC16-2-455	2016 12 14	1.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-2-456	EXC16-2-456	2016 12 14	0.5	10	0.0098	-	0.025	< 0.0050	< 0.0050	< 0.0050	0.0075	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	0.0061	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Excavation Area 3A																											
EXC16-3A-054	EXC16-3A-054	2016 11 11	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-055	EXC16-3A-055	2016 11 11	1.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3A																											
EXC16-3A-056	EXC16-3A-056	2016 11 11	0.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-075	EXC16-3A-075	2016 11 11	2.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-076	EXC16-3A-076	2016 11 11	1.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-077	EXC16-3A-077	2016 11 11	0.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-078	EXC16-3A-078	2016 11 11	2.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-081	EXC16-3A-081	2016 11 11	2.5	25	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	EXC16-3A-D7	Duplicate	2.5	25	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-084	EXC16-3A-084	2016 11 11	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-085	EXC16-3A-085	2016 11 11	1.5	10	***0.045***	-	0.032	< 0.046	0.055	0.054	< 0.010	< 0.010	< 0.010	0.017	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-086	EXC16-3A-086	2016 11 11	0.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-087	EXC16-3A-087	2016 11 11	3.0	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-088	EXC16-3A-088	2016 11 11	1.5	15	***0.37***	-	1.6	0.069	0.17	***0.36***	***0.83***	0.042	0.078	0.22	0.087	0.088	-	-	0.16	0.027	0.13	0.093	0.040	0.10	-	0.21	***2.0***
EXC16-3A-093	EXC16-3A-093	2016 11 11	5.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-094	EXC16-3A-094	2016 11 11	4.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-095	EXC16-3A-095	2016 11 11	3.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-256	EXC16-3A-256	2016 11 23	3.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-257	EXC16-3A-257	2016 11 23	4.5	35	< 0.0050	-	0.0098	< 0.0050	< 0.0050	< 0.0050	0.0057	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-258	EXC16-3A-258	2016 11 23	5.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-259	EXC16-3A-259	2016 11 23	3.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-260	EXC16-3A-260	2016 11 23	4.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-261	EXC16-3A-261	2016 11 23	5.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-287	EXC16-3A-287	2016 12 03	7.5	15	***0.068***	-	0.66	0.0073	0.0075	0.015	0.039	< 0.0040	< 0.0050	0.0098	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-288	EXC16-3A-288	2016 12 03	6.5	10	***0.25***	-	4.7	0.055	0.055	0.020	***0.094***	< 0.0040	< 0.0050	0.0076	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-289	EXC16-3A-289	2016 12 03	5.5	10	***0.049***	-	0.29	< 0.0050	0.0083	0.013	0.023	< 0.0040	< 0.0050	0.0054	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-290	EXC16-3A-290	2016 12 03	4.5	10	***0.072***	-	1.5	0.0098	0.018	0.022	***0.057***	< 0.0040	< 0.0050	0.010	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-291	EXC16-3A-291	2016 12 03	7.5	0	0.0065	-	0.036	0.0098	< 0.0050	0.0097	0.024	0.0055	0.0092	0.025	< 0.0050	0.0077	-	-	0.011	< 0.0050	0.011	0.0084	< 0.0050	0.010	-	< 0.10	0.14
EXC16-3A-292	EXC16-3A-292	2016 12 03	6.5	0	0.0062	-	0.032	0.018	< 0.0050	0.0087	0.019	0.0091	0.0099	0.036	0.0063	0.0084	-	-	0.023	< 0.0050	0.025	0.020	< 0.0050	0.023	-	< 0.10	0.27
EXC16-3A-293	EXC16-3A-293	2016 12 03	5.5	0	0.0075	-	0.033	0.017	< 0.0050	0.0074	0.023	0.0075	0.0075	0.025	0.0060	0.0066	-	-	0.016	< 0.0050	0.017	0.014	< 0.0050	0.016	-	< 0.10	0.20
EXC16-3A-294	EXC16-3A-294	2016 12 03	4.5	10	0.0059	-	0.030	< 0.0050	< 0.0050	0.011	0.026	0.0055	0.0091	0.029	< 0.0050	0.0068	-	-	0.0089	< 0.0050	0.0062	0.0058	< 0.0050	0.0070	-	< 0.10	0.11
EXC16-3A-295	EXC16-3A-295	2016 12 03	7.5	15	< 0.0050	-	0.014	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-296	EXC16-3A-296	2016 12 03	6.5	15	***0.18***	-	0.38	0.0094	0.0079	0.0077	0.024	< 0.0040	0.0090	0.020	< 0.0050	< 0.0050	-	-	0.0070	< 0.0050	0.0053	< 0.0050	< 0.0050	0.0055	-	< 0.10	0.10
EXC16-3A-297	EXC16-3A-297	2016 12 03	5.5	15	***0.13***	-	0.56	0.020	0.014	0.045	***0.061***	0.0055	0.016	0.035	< 0.0050	0.0084	-	-	0.0095	< 0.0050	0.0074	0.0062	< 0.0050	0.0076	-	< 0.10	0.12
EXC16-3A-298	EXC16-3A-298	2016 12 03	4.5	20	0.0063	-	0.026	< 0.0050	< 0.0050	< 0.0050	0.0094	< 0.0040	0.0056	0.0091	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-299	EXC16-3A-299	2016 12 03	7.5	20	0.0052	-	0.0076	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-300	EXC16-3A-300	2016 12 03	6.5	5	0.0069	-	0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-301	EXC16-3A-301	2016 12 03	5.5	15	< 0.0050	-	0.0056	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-302	EXC16-3A-302	2016 12 03	4.5	15	< 0.0050	-	0.0099	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-303	EXC16-3A-303	2016 12 03	7.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D28	Duplicate	7.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-304	EXC16-3A-304	2016 12 03	6.5	25	< 0.0050	-	0.0083	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-305	EXC16-3A-305	2016 12 03	5.5	25	0.0082	-	0.0085	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D29	Duplicate	5.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-306	EXC16-3A-306	2016 12 03	4.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3A																											
EXC16-3A-307	EXC16-3A-307	2016 12 03	6.0	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D30	Duplicate	6.0	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-308	EXC16-3A-308	2016 12 04	7.5	20	< 0.0050	-	< 0.0050	0.020	0.0077	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	0.0055	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-309	EXC16-3A-309	2016 12 04	6.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.020	< 0.0050	< 0.0050	-	-	0.0092	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.10
EXC16-3A-310	EXC16-3A-310	2016 12 04	5.5	20	< 0.0050	-	< 0.0050	0.015	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.066	< 0.0050	< 0.0050	-	-	0.020	< 0.0050	< 0.0050	0.0055	< 0.0050	< 0.0050	-	< 0.10	0.17
EXC16-3A-311	EXC16-3A-311	2016 12 04	4.5	10	< 0.0050	-	0.014	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-312	EXC16-3A-312	2016 12 04	8.0	10	0.0089	-	0.046	0.021	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D31	Duplicate	8.0	10	0.012	-	0.049	0.019	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	6	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-313	EXC16-3A-313	2016 12 04	8.0	15	< 0.0050	-	0.0096	0.025	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-314	EXC16-3A-314	2016 12 04	7.5	10	< 0.0050	-	0.0092	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-315	EXC16-3A-315	2016 12 04	6.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-316	EXC16-3A-316	2016 12 04	8.0	5	0.0089	-	0.013	< 0.0050	< 0.0050	< 0.0050	0.011	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-324	EXC16-3A-324	2016 12 05	7.5	35	0.010	-	0.029	0.013	0.0073	< 0.0050	***0.10***	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-325	EXC16-3A-325	2016 12 05	6.5	25	< 0.0050	-	0.0082	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-326	EXC16-3A-326	2016 12 05	5.5	20	< 0.0050	-	0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-327	EXC16-3A-327	2016 12 05	4.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-328	EXC16-3A-328	2016 12 05	8.0	15	***0.58***	-	1.9	0.011	0.029	< 0.0050	***0.13***	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-334	EXC16-3A-334	2016 12 05	8.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-335	EXC16-3A-335	2016 12 05	7.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-336	EXC16-3A-336	2016 12 05	8.0	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D33	Duplicate	8.0	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-337	EXC16-3A-337	2016 12 05	7.5	20	0.011	-	0.082	< 0.0050	0.0069	0.013	0.025	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-338	EXC16-3A-338	2016 12 05	6.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-341	EXC16-3A-341	2016 12 07	3.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D35	Duplicate	3.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-342	EXC16-3A-342	2016 12 07	2.5	20	***0.017***	-	0.11	0.010	< 0.0050	< 0.0050	0.0091	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-343	EXC16-3A-343	2016 12 07	1.5	15	***0.027***	-	0.14	0.011	0.014	0.023	0.034	0.012	< 0.0050	0.017	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-344	EXC16-3A-344	2016 12 07	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-345	EXC16-3A-345	2016 12 07	3.5	20	***0.016***	-	0.072	0.12	0.012	0.0084	0.021	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-346	EXC16-3A-346	2016 12 07	2.5	20	< 0.0050	-	0.0080	0.0082	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-347	EXC16-3A-347	2016 12 07	1.5	20	< 0.0050	-	0.019	0.016	< 0.0050	< 0.0050	0.0093	< 0.0040	0.013	0.017	0.0071	0.0066	-	-	0.016	0.0063	0.0091	0.011	< 0.0050	0.011	-	< 0.10	0.21
EXC16-3A-348	EXC16-3A-348	2016 12 07	0.5	0	***0.25***	-	1.4	0.077	0.059	0.11	***0.070***	0.0061	< 0.0050	0.012	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-349	EXC16-3A-349	2016 12 07	3.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-350	EXC16-3A-350	2016 12 07	2.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-351	EXC16-3A-351	2016 12 07	1.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D36	Duplicate	1.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-352	EXC16-3A-352	2016 12 07	0.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-353	EXC16-3A-353	2016 12 07	3.5	10	***0.014***	-	0.071	0.014	0.0099	0.019	0.044	0.011	0.014	0.055	0.0078	0.013	-	-	0.019	< 0.0050	0.014	0.014	< 0.0050	0.015	-	< 0.10	0.22
EXC16-3A-354	EXC16-3A-354	2016 12 07	2.5	10	0.0060	-	0.026	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	0.013	< 0.0050	< 0.0050	-	-	0.0054	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-355	EXC16-3A-355	2016 12 07	1.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-356	EXC16-3A-356	2016 12 07	0.5	5	***0.028***	-	0.15	0.063	0.027	0.060	***0.20***	0.048	0.079	0.18	0.033	0.035	-	-	0.081	0.018	0.073	0.068	0.013	0.077	-	0.11	1.0
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

					Polycyclic Aromatic Hydrocarbons																						
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3A																											
EXC16-3A-357	EXC16-3A-357	2016 12 07	3.5	10	***0.22***	-	4.2	0.014	0.011	0.015	***0.056***	< 0.0040	< 0.0050	0.0076	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-358	EXC16-3A-358	2016 12 07	2.5	10	< 0.0050	-	0.033	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-359	EXC16-3A-359	2016 12 07	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D37	Duplicate	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-360	EXC16-3A-360	2016 12 07	0.5	5	< 0.0050	-	0.036	< 0.0050	< 0.0050	0.0078	0.013	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-361	EXC16-3A-361	2016 12 07	3.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-362	EXC16-3A-362	2016 12 07	2.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-363	EXC16-3A-363	2016 12 07	1.5	30	< 0.0050	-	0.0066	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-364	EXC16-3A-364	2016 12 07	0.5	110	***0.37***	-	0.66	< 0.0050	< 0.0050	0.0094	0.021	< 0.0040	< 0.0050	0.010	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D38	Duplicate	0.5	110	***0.26***	-	0.58	< 0.0050	< 0.0050	0.0092	0.018	< 0.0040	< 0.0050	0.0099	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			35	-	13	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-365	EXC16-3A-365	2016 12 07	3.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-366	EXC16-3A-366	2016 12 07	2.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-367	EXC16-3A-367	2016 12 07	1.5	15	***0.50***	-	2.3	0.012	0.022	0.049	0.025	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-368	EXC16-3A-368	2016 12 07	0.5	100	***1.6***	-	6.4	0.042	0.058	0.15	***0.080***	0.0062	< 0.0050	0.0057	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3A-D39	Duplicate	0.5	100	***7.9***	-	34	0.17	0.27	***0.64***	***0.34***	0.017	0.0070	0.012	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			133	-	137	121	129	124	124	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
Excavation Area 3B																											
EXC16-3B-130	EXC16-3B-130	2016 11 17	0.3	30	***0.017***	-	0.035	< 0.0050	< 0.0050	< 0.020	0.014	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-131	EXC16-3B-131	2016 11 17	0.3	20	0.011	-	0.023	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-132	EXC16-3B-132	2016 11 17	0.3	40	***0.016***	-	0.035	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-133	EXC16-3B-133	2016 11 17	0.3	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-134	EXC16-3B-134	2016 11 17	0.3	30	***0.064***	-	0.22	< 0.0050	0.011	0.037	***0.067***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-136	EXC16-3B-136	2016 11 17	0.5	-	< 0.010	-	0.023	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-137	EXC16-3B-137	2016 11 17	0.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-138	EXC16-3B-138	2016 11 17	0.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-139	EXC16-3B-139	2016 11 17	0.6	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-163	EXC16-3B-163	2016 11 17	0.3	15	***0.014***	-	0.030	< 0.0050	< 0.0050	< 0.020	0.011	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-317	EXC16-3B-317	2016 12 05	1.8	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-318	EXC16-3B-318	2016 12 05	0.3	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-319	EXC16-3B-319	2016 12 05	1.8	15	***0.090***	-	0.40	0.0076	0.023	0.037	***0.063***	0.0076	< 0.0050	0.011	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-320	EXC16-3B-320	2016 12 05	1.8	15	***2.2***	-	10	0.15	***0.45***	***0.75***	***1.4***	0.15	0.035	0.15	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-321	EXC16-3B-321	2016 12 05	2.0	25	***2.5***	-	3.7	0.022	0.045	0.087	***0.089***	0.012	0.0059	0.029	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-322	EXC16-3B-322	2016 12 05	2.0	50	< 0.0050	-	0.017	< 0.0050	< 0.0050	< 0.0050	0.018	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-323	EXC16-3B-323	2016 12 05	1.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-329	EXC16-3B-329	2016 12 05	1.5	15	***0.018***	-	0.016	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-330	EXC16-3B-330	2016 12 05	0.5	110	***26***	-	110	1.9	***5.8***	***9.3***	***20***	***2.8***	0.45	2.1	0.067	0.082	-	-	0.060	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.96
	EXC16-3B-D32	Duplicate	0.5	110	***23***	-	93	1.7	***5.1***	***8.2***	***17***	2.4	0.62	1.9	0.062	0.060	-	-	0.057	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.92
		QA/QC RPD%			12	-	17	11	13	13	16	15	32	10	8	31	-	-	5	*	*	*	*	*	-	*	4
EXC16-3B-331	EXC16-3B-331	2016 12 05	1.5	55	0.0064	-	0.040	< 0.0050	< 0.0050	0.011	0.035	0.0079	< 0.0050	0.0081	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3B-332	EXC16-3B-332	2016 12 05	0.5	40	***1.7***	-	8.5	0.23	***0.69***	***1.6***	***5.4***	1.1	0.12	0.85	< 0.050	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.59
EXC16-3B-333	EXC16-3B-333	2016 12 05	1.5	25	< 0.0050	-	0.018	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Excavation Area 3C																											
EXC16-3C-233	EXC16-3C-233	2016 11 22	3.5	45	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-234	EXC16-3C-234	2016 11 22	2.5	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3C																											
EXC16-3C-237	EXC16-3C-237	2016 11 22	3.5	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
	EXC16-3C-D24	Duplicate	3.5	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	-	*	*
EXC16-3C-238	EXC16-3C-238	2016 11 22	2.5	25	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-239	EXC16-3C-239	2016 11 22	1.5	15	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-240	EXC16-3C-240	2016 11 22	0.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-262	EXC16-3C-262	2016 11 24	3.5	35	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-263	EXC16-3C-263	2016 11 24	2.5	35	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-264	EXC16-3C-264	2016 11 24	1.5	35	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-265	EXC16-3C-265	2016 11 24	0.5	15	0.0053	-	0.018	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-266	EXC16-3C-266	2016 11 24	3.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-267	EXC16-3C-267	2016 11 24	2.5	45	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-268	EXC16-3C-268	2016 11 24	1.5	40	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-270	EXC16-3C-270	2016 11 24	3.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-271	EXC16-3C-271	2016 11 24	2.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-272	EXC16-3C-272	2016 11 24	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-273	EXC16-3C-273	2016 11 24	0.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-274	EXC16-3C-274	2016 11 24	3.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-275	EXC16-3C-275	2016 11 24	2.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-276	EXC16-3C-276	2016 11 24	1.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-277	EXC16-3C-277	2016 11 24	0.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-286	EXC16-3C-286	2016 12 03	0.5	-	0.0092	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-339	EXC16-3C-339	2016 12 06	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3C-D34	Duplicate	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3C-340	EXC16-3C-340	2016 12 06	0.3	10	0.0077	-	0.027	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-369	EXC16-3C-369	2016 12 08	8.0	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-370	EXC16-3C-370	2016 12 08	7.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-371	EXC16-3C-371	2016 12 08	6.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-372	EXC16-3C-372	2016 12 08	5.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-373	EXC16-3C-373	2016 12 08	4.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-375	EXC16-3C-375	2016 12 08	7.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3C-D40	Duplicate	7.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3C-376	EXC16-3C-376	2016 12 08	6.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-377	EXC16-3C-377	2016 12 08	5.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-378	EXC16-3C-378	2016 12 08	4.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-379	EXC16-3C-379	2016 12 08	7.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-380	EXC16-3C-380	2016 12 08	6.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-381	EXC16-3C-381	2016 12 08	5.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-382	EXC16-3C-382	2016 12 08	4.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-383	EXC16-3C-383	2016 12 08	8.0	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-384	EXC16-3C-384	2016 12 08	7.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-385	EXC16-3C-385	2016 12 08	6.5	0	< 0.0050	-	< 0.0050	0.020	< 0.0050	< 0.0050	< 0.0050	0.0071	< 0.0050	0.0067	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-386	EXC16-3C-386	2016 12 08	5.5	15	< 0.0050	-	< 0.0050	0.056	0.010	0.0091	< 0.0050	0.023	< 0.0050	0.052	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3C-D41	Duplicate	5.5	15	< 0.0050	-	< 0.0050	0.048	0.0082	0.0058	< 0.0050	0.017	< 0.0050	0.037	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			*	-	*	15	*	*	*	*	*	34	*	*	-	-	*	*	*	*	*	*	-	*	*
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

					Polycyclic Aromatic Hydrocarbons																						
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3C																											
EXC16-3C-387	EXC16-3C-387	2016 12 08	4.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-388	EXC16-3C-388	2016 12 10	8.0	45	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-389	EXC16-3C-389	2016 12 10	7.5	25	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-390	EXC16-3C-390	2016 12 10	6.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-391	EXC16-3C-391	2016 12 10	5.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-392	EXC16-3C-392	2016 12 10	4.5	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-393	EXC16-3C-393	2016 12 10	7.5	40	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-394	EXC16-3C-394	2016 12 10	6.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-395	EXC16-3C-395	2016 12 10	5.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-396	EXC16-3C-396	2016 12 10	4.5	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-397	EXC16-3C-397	2016 12 10	8.5	350	***1.9***	-	7.1	0.041	0.13	0.22	***0.28***	0.041	0.015	0.048	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-398	EXC16-3C-398	2016 12 10	7.5	470	***34***	-	39	0.038	0.085	***0.26***	***0.24***	0.038	0.017	0.045	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-399	EXC16-3C-399	2016 12 10	6.5	550	***5.1***	-	4.1	0.10	***0.32***	***0.46***	***0.36***	0.095	0.024	0.13	< 0.0050	0.0068	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-3C-D42	Duplicate	6.5	550	***4.7***	-	3.2	0.087	***0.29***	***0.40***	***0.25***	0.088	0.033	0.11	< 0.0050	0.0056	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	QA/QC RPD%				8	-	25	14	10	14	36	8	*	17	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3C-400	EXC16-3C-400	2016 12 10	5.5	100	***0.30***	-	0.83	0.014	0.039	0.073	***0.16***	0.016	< 0.0050	0.015	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3C-401	EXC16-3C-401	2016 12 10	4.5	160	***3.8***	-	9.5	0.082	0.26	***0.45***	***0.98***	0.074	0.014	0.083	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Excavation Area 3D																											
EXC16-3D-278	EXC16-3D-278	2016 11 24	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3D-279	EXC16-3D-279	2016 11 24	0.5	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3D-280	EXC16-3D-280	2016 11 24	0.5	30	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3D-281	EXC16-3D-281	2016 11 24	1.5	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3D-282	EXC16-3D-282	2016 11 24	1.5	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3D-283	EXC16-3D-283	2016 11 24	1.5	65	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3D-284	EXC16-3D-284	2016 11 24	1.5	70	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Excavation Area 5																											
EXC16-5-001	EXC16-5-001	2016 11 08	3.0	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-002	EXC16-5-002	2016 11 08	2.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-003	EXC16-5-003	2016 11 08	1.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-005	EXC16-5-005	2016 11 08	3.0	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-006	EXC16-5-006	2016 11 08	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-007	EXC16-5-007	2016 11 08	1.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-008	EXC16-5-008	2016 11 08	0.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-009	EXC16-5-009	2016 11 10	2.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-010	EXC16-5-010	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-011	EXC16-5-011	2016 11 10	0.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-012	EXC16-5-012	2016 11 10	2.5	5	< 0.010	-	0.024	< 0.010	< 0.010	0.011	0.031	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-015	EXC16-5-015	2016 11 10	2.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-018	EXC16-5-018	2016 11 10	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 5																											
EXC16-5-021	EXC16-5-021	2016 11 10	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-024	EXC16-5-024	2016 11 10	2.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-025	EXC16-5-025	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-026	EXC16-5-026	2016 11 10	0.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-027	EXC16-5-027	2016 11 10	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-028	EXC16-5-028	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-029	EXC16-5-029	2016 11 10	0.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-030	EXC16-5-030	2016 11 10	2.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	EXC16-5-D3	Duplicate	2.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-5-031	EXC16-5-031	2016 11 10	1.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-032	EXC16-5-032	2016 11 10	0.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-033	EXC16-5-033	2016 11 10	2.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-034	EXC16-5-034	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-036	EXC16-5-036	2016 11 10	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-037	EXC16-5-037	2016 11 10	1.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-038	EXC16-5-038	2016 11 10	0.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-039	EXC16-5-039	2016 11 10	2.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-040	EXC16-5-040	2016 11 10	1.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-041	EXC16-5-041	2016 11 10	0.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-043	EXC16-5-043	2016 11 10	3.0	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-045	EXC16-5-045	2016 11 10	3.0	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-046	EXC16-5-046	2016 11 10	3.0	10	< 0.010	-	0.026	< 0.010	< 0.010	< 0.010	0.018	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-047	EXC16-5-047	2016 11 10	3.0	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	EXC16-5-D4	Duplicate	3.0	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-5-048	EXC16-5-048	2016 11 10	3.0	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	0.016	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-049	EXC16-5-049	2016 11 10	3.0	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-050	EXC16-5-050	2016 11 10	3.0	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-051	EXC16-5-051	2016 11 10	3.0	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-052	EXC16-5-052	2016 11 10	3.0	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-053	EXC16-5-053	2016 11 10	3.0	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-285	EXC16-5-285	2016 11 24	4.0	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC17-05-498	EXC17-05-498	2017 12 07	0.5 - 0.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
EXC17-05-499	EXC17-05-499	2017 12 07	0.8 - 1.0	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.03	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
EXC17-05-500	EXC17-05-500	2017 12 07	1.0 - 1.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	EXC17-05-501	Duplicate	1.0 - 1.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Excavation Area 6																											
EXC17-06-496	EXC17-06-496	2017 12 06	0.5 - 0.6	20	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.02	***0.07***	< 0.004	0.01	0.02	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
EXC17-06-497	EXC17-06-497	2017 12 06	0.6 - 0.8	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.02	< 0.02	< 0.05	< 0.02	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Confirmatory Boreholes and Test Pits																											
BH17-69	BH17-69-01	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-69-02	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-69-03	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-69-04	Duplicate	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-69-05	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-69-06	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-69-07	2017 10 06	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-69-08	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-70	BH17-70-01	2017 10 06	0.3 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-02	2017 10 06	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-70-04	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-05	2017 10 06	3.2 - 3.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-06	2017 10 06	4.3 - 4.9	0	< 0.005	0.049	0.018	< 0.005	< 0.005	< 0.02	***0.05***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-07	2017 10 06	5.3 - 6.1	0	< 0.005	0.072	0.071	< 0.005	< 0.005	< 0.02	0.03	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-08	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-09	2017 10 06	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-70-10	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-71	BH17-71-01	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-71-02	2017 10 06	3.4 - 3.7	0	0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-71-03	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-71-04	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-71-05	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-71-06	2017 10 06	7.3 - 7.6	55	< 0.05[a]	2.08	< 0.05	< 0.05	< 0.05	***0.76***	***1.51***	< 0.004	0.08	0.23	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-71-07	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	0.01	0.15	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-72	BH17-72-01	2017 10 05	7.9 - 8.2	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-72-02	Duplicate	7.9 - 8.2	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-73	BH17-73-01	2017 10 05	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-73-02	2017 10 05	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-73-03	2017 10 05	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-73-04	2017 10 05	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-73-05	2017 10 05	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-73-06	2017 10 05	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-73-07	Duplicate	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-74	BH17-74-01	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-74-02	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-74-03	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-74-04	2017 10 06	6.4 - 6.7	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-74-05	2017 10 06	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-74-06	2017 10 06	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-75	BH17-75-01	2017 10 05	0.3 - 0.6	990	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-02	2017 10 05	1.2 - 1.5	260	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-03	2017 10 05	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-04	2017 10 05	3.4 - 3.7	135	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-05	2017 10 05	4.4 - 4.7	80	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-06	2017 10 05	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-07	2017 10 05	6.4 - 6.7	85	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-08	2017 10 05	7.3 - 7.6	85	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-75-09	2017 10 05	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-76	BH17-76-01	2017 10 05	0.5 - 0.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-76-02	2017 10 05	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-76-03	2017 10 05	1.8 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-77	BH17-77-01	2017 10 05	2.0 - 2.3	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-78	BH17-78-01	2017 10 05	0.5 - 0.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-78-02	2017 10 05	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-78-03	2017 10 05	1.8 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-79	BH17-79-01	2017 10 06	0.5 - 0.6	0	***0.053***	0.079	0.168	< 0.005	< 0.005	< 0.02	***0.05***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-79-02	2017 10 06	0.9 - 1.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-80	BH17-80-01	2017 10 06	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-80-02	2017 10 06	0.9 - 1.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-80-03	Duplicate	0.9 - 1.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-81	BH17-81-01	2017 10 06	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-02	2017 10 06	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-03	2017 10 06	2.4 - 2.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-04	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-05	Duplicate	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-81-06	2017 10 06	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-07	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-08	2017 10 06	6.4 - 6.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-09	2017 10 06	7.3 - 7.6	75	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-81-10	2017 10 06	7.9 - 8.1	0	< 0.005	0.008	0.019	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-82	BH17-82-01	2017 10 06	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-82-02	2017 10 06	1.4 - 1.7	0	< 0.005	< 0.005	0.009	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-82-03	2017 10 06	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-82-04	2017 10 06	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-82-05	2017 10 06	4.4 - 4.7	0	0.005	0.009	0.034	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-82-06	2017 10 06	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-82-07	2017 10 06	6.4 - 6.7	0	< 0.005	< 0.005	0.017	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-82	BH17-82-08	2017 10 06	7.3 - 7.6	25	0.005	0.007	0.029	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
(Cont'd)	BH17-82-09	Duplicate	7.3 - 7.6	25	0.006	0.007	0.031	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-82-10	2017 10 06	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-83	BH17-83-01	2017 10 07	4.4 - 4.7	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-83-02	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-83-03	2017 10 07	6.4 - 6.7	330	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-83-04	2017 10 07	7.3 - 7.6	250	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-83-05	Duplicate	7.3 - 7.6	250	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-83-06	2017 10 07	7.8 - 8.1	110	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-84	BH17-84-01	2017 10 07	0.3 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-84-02	2017 10 07	1.4 - 1.7	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-84-03	2017 10 07	1.8 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-84-04	Duplicate	1.8 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-85	BH17-85-01	2017 10 07	0.3 - 0.6	25	0.007	0.007	0.021	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-85-02	2017 10 07	1.4 - 1.7	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-85-03	2017 10 07	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-86	BH17-86-01	2017 10 07	0.5 - 0.6	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-86-02	2017 10 07	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-86-03	2017 10 07	1.8 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-87	BH17-87-01	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-87-02	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-87-03	Duplicate	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-87-04	2017 10 07	6.4 - 6.7	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-87-05	2017 10 07	7.3 - 7.6	620	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-87-06	2017 10 07	7.8 - 8.1	200	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-88	BH17-88-01	2017 10 07	0.5 - 0.6	190	***0.021***	0.025	0.035	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-02	2017 10 07	1.4 - 1.7	1,100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-03	2017 10 07	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-04	2017 10 07	3.4 - 3.7	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-05	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-06	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-07	Duplicate	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-88-08	2017 10 07	6.4 - 6.7	65	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-09	2017 10 07	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-88-10	2017 10 07	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-89	BH17-89-01	2017 10 07	7.9 - 8.2	0	< 0.05[a]	1.46	0.51	< 0.05	< 0.05	< 0.2	***0.2***	< 0.04	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-89-02	Duplicate	7.9 - 8.2	0	< 0.05[a]	1.81	0.42	< 0.05	< 0.05	< 0.2	***0.4***	< 0.04	< 0.01	0.02	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	21	19	*	*	*	67	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-90	BH17-90-01	2017 10 07	7.8 - 8.1	0	***2.7***	8.1	9.8	< 0.5	< 0.5[a]	0.2	***1.0***	< 0.04	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-91	BH17-91-01	2017 10 07	4.4 - 4.7	0	< 0.005	0.006	0.007	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-91-02	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-91-03	2017 10 07	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-91-04	Duplicate	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-91-05	2017 10 07	7.3 - 7.6	30	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-91-06	2017 10 07	7.9 - 8.2	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-92	BH17-92-01	2017 10 07	0.5 - 0.6	350	< 0.005	0.032	0.015	< 0.005	< 0.005	< 0.02	0.03	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-02	2017 10 07	1.4 - 1.7	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-03	2017 10 07	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-04	2017 10 07	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-05	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-06	2017 10 07	5.3 - 5.6	30	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-07	2017 10 07	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-08	2017 10 07	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-09	2017 10 07	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-92-10	Duplicate	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
		QA/QC RPD%			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-93	BH17-93-01	2017 10 07	0.5 - 0.6	150	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-93-02	2017 10 07	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-93-03	2017 10 07	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-93-04	2017 10 07	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-93-05	2017 10 07	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-93	BH17-93-06	2017 10 07	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
(Cont'd)	BH17-93-07	2017 10 07	6.4 - 6.7	770	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-93-08	2017 10 07	7.3 - 7.6	115	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-93-09	2017 10 07	7.8 - 8.1	300	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-94	BH17-94-01	2017 10 07	7.8 - 8.1	0	< 0.005	1.09	< 0.005	< 0.005	< 0.005	< 0.02	***0.08***	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-95	BH17-95-01	2017 10 08	4.4 - 4.7	160	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-95-02	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-95-03	2017 10 08	6.4 - 6.7	85	0.009	0.018	0.035	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-95-04	2017 10 08	7.3 - 7.6	1,000	0.007	0.020	0.032	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-95-05	2017 10 08	7.8 - 8.1	0	0.005	0.012	0.021	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-95-06	Duplicate	7.8 - 8.1	0	0.005	0.013	0.023	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-96	BH17-96-01	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-96-02	Duplicate	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-97	BH17-97-01	2017 10 08	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-97-02	2017 10 08	4.3 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-97-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-97-04	2017 10 08	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-97-05	2017 10 08	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-97-06	2017 10 08	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-98	BH17-98-01	2017 10 08	0.5 - 0.8	175	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-98-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-98-03	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-99	BH17-99-01	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-100	BH17-100-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-100-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-100-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-100-04	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-101	BH17-101-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-101-02	2017 10 08	0.8 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-102	BH17-102-01	2017 10 08	5.8 - 6.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-102-02	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-103	BH17-103-01	2017 10 08	3.4 - 3.7	900	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-103-02	2017 10 08	4.4 - 4.7	30	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-103-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.005	0.009	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-103-04	2017 10 08	6.4 - 6.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-103-05	2017 10 08	7.3 - 7.6	35	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-103-06	2017 10 08	7.9 - 8.1	620	0.008	< 0.005	0.011	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-104	BH17-104-01	2017 10 08	5.8 - 6.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-104-02	2017 10 08	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-105	BH17-105-01	2017 10 08	5.8 - 6.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-105-02	2017 10 08	7.9 - 8.1	110	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-106	BH17-106-01	2017 10 08	3.4 - 3.7	750	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-106-02	2017 10 08	4.4 - 4.7	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-106-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-106-04	2017 10 08	6.4 - 6.7	100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-106-05	2017 10 08	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-106-06	Duplicate	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-106-07	2017 10 08	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-107	BH17-107-01	2017 10 08	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-107-02	2017 10 08	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-107-03	2017 10 08	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-107-04	2017 10 08	6.4 - 6.6	60	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-107-05	2017 10 08	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-107-06	2017 10 08	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-108	BH17-108-01	2017 10 08	0.3 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-108-02	2017 10 08	0.8 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-109	BH17-109-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-109-02	2017 10 08	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-110	BH17-110-01	2017 10 08	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-110-02	Duplicate	0.9 - 1.1	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-111	BH17-111-02	2017 10 13	0.5 - 0.6	0	< 0.2[a]	< 0.2	< 0.2	< 0.2	< 0.2	< 1[a]	***2***	< 0.2	< 0.5	< 0.5	< 2[a]	< 2	< 2[a]	< 2[a]	< 0.05	< 2[a]	< 2[a]	< 1	< 0.2	< 2	< 2	< 2	< 30[a]
	BH17-111-01	2017 10 08	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-112	BH17-112-01	2017 10 08	0.5 - 0.6	0	***0.036***	0.094	0.114	0.083	***0.463***	***0.65***	***3.18***	1.53	2.30	1.31	0.49	0.51	0.32	0.12	0.44	0.14	0.22	0.20	0.053	0.27	< 0.05	0.40	***6.2***
	BH17-112-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-112-03	2017 10 08	2.0 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-113	BH17-113-01	2017 10 08	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-113-02	2017 10 08	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-113-03	2017 10 08	2.0 - 2.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-114	BH17-114-01	2017 10 08	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-114-02	Duplicate	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-115	BH17-115-01	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-115-02	2017 10 09	3.4 - 3.7	470	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-115-03	2017 10 09	4.3 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-115-04	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-115-05	2017 10 09	6.4 - 6.7	4,950	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-115-06	2017 10 09	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-115-07	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-116	BH17-116-01	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-116-02	Duplicate	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-117	BH17-117-01	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-117-02	2017 10 09	3.4 - 3.7	50	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-117-03	2017 10 09	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-117-04	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-117-05	2017 10 09	6.4 - 6.7	75	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-117-06	2017 10 09	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-117-07	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-118	BH17-118-01	2017 10 09	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-119	BH17-119-01	2017 10 09	0.5 - 0.6	95	0.007	0.008	0.017	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-02	2017 10 09	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-119-04	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-05	2017 10 09	3.4 - 3.7	120	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-06	2017 10 09	4.4 - 4.7	240	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-07	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-08	2017 10 09	6.4 - 6.7	370	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-09	2017 10 09	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-119-10	2017 10 09	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-120	BH17-120-01	2017 10 09	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-120-02	2017 10 09	1.4 - 1.7	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-120-03	2017 10 09	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-120-04	2017 10 09	3.4 - 3.7	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-120-05	Duplicate	3.4 - 3.7	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-120-06	2017 10 09	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-120-07	2017 10 09	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-120-08	2017 10 09	6.4 - 6.7	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-120-09	2017 10 09	7.3 - 7.6	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-120-10	2017 10 09	7.9 - 8.1	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
BH17-121	BH17-121-01	2017 10 09	7.9 - 8.1	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	0.02	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-121-02	Duplicate	7.9 - 8.1	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-122	BH17-122-01	2017 10 10	0.5 - 0.6	10	***0.18***	1.24	1.25	< 0.02	< 0.02	***0.3***	***1.1***	< 0.02	0.08	0.18	< 0.2	0.3	0.2	< 0.2	0.20	< 0.2	< 0.2	< 0.1	< 0.02	< 0.2	< 0.2	< 0.2	< 3[a]
	BH17-122-02	2017 10 10	1.4 - 1.7	0	***0.412***	0.434	0.651	< 0.005	< 0.005	< 0.02	***0.26***	0.015	0.04	0.04	0.03	0.05	0.05	< 0.05	0.05	< 0.05	0.03	< 0.02	0.007	< 0.05	< 0.05	0.05	0.8
	BH17-122-03	2017 10 10	2.4 - 2.6	50	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-122-04	2017 10 10	2.9 - 3.0	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-123	BH17-123-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-123-02	2017 10 10	1.4 - 1.7	60	***0.086***	0.105	0.096	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-123-03	2017 10 10	2.3 - 2.6	260	***5.5***	9.3	5.4	< 0.5	< 0.5[a]	< 2[a]	< 2[a]	< 0.4	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-123-04	2017 10 10	2.9 - 3.0	55	< 0.05[a]	0.22	0.16	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-123-05	2017 10 10	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-123-06	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-124	BH17-124-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-124-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-124-03	Duplicate	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-124-04	2017 10 10	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-125	BH17-125-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-125-02	2017 10 10	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	0.011	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-126	BH17-126-01	2017 10 10	0.5 - 0.6	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.04	< 0.008	< 0.02	0.03	< 0.06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.06	< 0.04	< 0.01	< 0.1	< 0.1	< 0.1	< 1
	BH17-126-02	2017 10 10	1.4 - 1.7	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.04	< 0.008	< 0.02	< 0.02	< 0.06	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.06	< 0.04	< 0.01	< 0.1	< 0.1	< 0.1	< 1
	BH17-126-03	2017 10 10	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-126-04	Duplicate	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-126-05	2017 10 10	2.9 - 3.0	0	< 0.005	0.005	0.007	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-127	BH17-127-01	2017 10 10	0.5 - 0.6	0	0.005	0.009	0.017	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-03	2017 10 10	2.3 - 2.6	280	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-04	2017 10 10	3.4 - 3.7	55	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-05	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-06	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-07	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-08	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-127-09	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-128	BH17-128-01	2017 10 10	2.9 - 3.0	0	< 0.05[a]	0.83	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-128-02	Duplicate	2.9 - 3.0	0	< 0.05[a]	1.19	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-128-04	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-128-05	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-128-06	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-128-07	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-128-08	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-129	BH17-129-01	2017 10 10	0.5 - 0.6	0	0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-129-02	Duplicate	0.5 - 0.6	0	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-129-03	2017 10 10	1.4 - 1.7	0	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-129-04	2017 10 10	2.3 - 2.6	0	0.010	0.016	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-129-05	2017 10 10	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.08	< 0.03	< 0.05	0.08	< 0.05	0.08	< 0.05	0.05	0.05	0.007	0.07	< 0.05	0.07	1.0
	BH17-129-06	2017 10 10	4.4 - 4.7	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	***0.6***	< 0.2[a]	< 0.04	0.22	0.17	0.06	0.06	0.06	< 0.05	0.06	< 0.05	0.04	< 0.02	0.005	< 0.05	< 0.5	0.06	1.0
	BH17-129-07	2017 10 10	5.3 - 5.6	0	< 0.05[a]	< 0.05	< 0.05	< 0.05	< 0.05	***0.3***	< 0.2[a]	< 0.04	0.11	0.10	0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	0.6
	BH17-129-08	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-129-09	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-129-10	2017 10 10	7.8 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-130	BH17-130-01	2017 10 10	0.5 - 0.6	95	***1.9***	18.7	21.2	< 0.5	< 0.5[a]	***2***	< 2[a]	< 0.4	0.07	0.09	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 5[a]	< 0.05	< 0.6
	BH17-130-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-130-03	2017 10 10	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-130-04	2017 10 10	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-131	BH17-131-01	2017 10 10	0.5 - 0.6	0	0.005	0.006	0.012	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-131-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-131-03	2017 10 10	2.3 - 2.6	0	0.007	0.009	< 0.005	< 0.005	< 0.005	< 0.02	0.02	0.005	0.04	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-131-04	2017 10 10	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-132	BH17-132-01	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-132-02	Duplicate	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-133	BH17-133-01	2017 10 10	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-02	2017 10 10	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-03	2017 10 10	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-04	2017 10 10	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-05	2017 10 10	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-06	2017 10 10	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-07	2017 10 10	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-08	2017 10 10	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-133-09	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-134	BH17-134-01	2017 10 10	7.9 - 8.1	50	< 0.5[a]	6.6	< 0.5	< 0.5	< 0.5[a]	< 2[a]	< 2[a]	< 0.4	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 5	< 0.05	< 0.6
BH17-135	BH17-135-01	2017 10 10	7.9 - 8.1	0	< 0.005	0.008	0.016	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-136	BH17-136-01	2017 10 10	7.9 - 8.1	0	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-137	BH17-137-01	2017 10 11	0.3 - 0.6	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-02	Duplicate	0.3 - 0.6	0	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-137-03	2017 10 11	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-04	2017 10 11	2.4 - 2.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-05	2017 10 11	3.4 - 3.7	30	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-06	2017 10 11	4.4 - 4.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-07	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-137 (Cont'd)	BH17-137-08	2017 10 11	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-09	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-137-10	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-138	BH17-138-01	2017 10 11	0.5 - 0.8	1,100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-02	2017 10 11	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-04	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-05	Duplicate	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-138-06	2017 10 11	4.3 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-07	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-08	2017 10 11	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-09	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-138-10	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-139	BH17-139-01	2017 10 11	0.3 - 0.6	75	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-02	2017 10 11	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-04	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-05	2017 10 11	4.3 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-06	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-07	2017 10 11	6.4 - 6.7	45	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-08	2017 10 11	7.3 - 7.6	0	< 0.005	0.005	0.011	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-139-09	Duplicate	7.3 - 7.6	0	< 0.005	0.005	0.012	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-139-10	2017 10 11	7.9 - 8.1	0	< 0.005	0.008	0.019	< 0.005	< 0.005	< 0.02	< 0.02	0.005	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-140	BH17-140-01	2017 10 11	0.3 - 0.6	240	< 0.005	< 0.005	0.011	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-02	2017 10 11	1.4 - 1.7	80	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-04	2017 10 11	3.4 - 3.7	110	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-05	2017 10 11	4.3 - 4.6	440	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-06	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-07	Duplicate	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-140-08	2017 10 11	6.4 - 6.7	0	< 0.005	0.005	0.009	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-09	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-140-10	2017 10 11	7.8 - 7.9	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-141	BH17-141-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-141-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-142	BH17-142-01	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-142-02	Duplicate	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-143	BH17-143-01	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-143-02	2017 10 11	4.3 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-143-03	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-143-04	2017 10 11	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-143-05	2017 10 11	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-143-06	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-144	BH17-144-01	2017 10 11	7.9 - 8.1	0	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-145	BH17-145-01	2017 10 11	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-145-02	Duplicate	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-145-03	2017 10 11	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-145-04	2017 10 11	4.4 - 4.7	105	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-145-05	2017 10 11	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-145-06	2017 10 11	6.4 - 6.6	0	< 0.005	0.006	0.013	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-145-07	2017 10 11	7.3 - 7.6	0	< 0.005	0.005	0.018	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-145-08	2017 10 11	7.9 - 8.1	0	< 0.005	0.005	0.018	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-146	BH17-146-01	2017 10 11	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-147	BH17-147-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-147-02	2017 10 11	1.4 - 1.7	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-147-03	2017 10 11	1.8 - 2.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-148	BH17-148-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-148-02	2017 10 11	1.4 - 1.7	4,180	***11.1***	2.84	6.45	< 0.05	< 0.05	< 0.2	< 0.2[a]	< 0.04	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-148-03	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-149	BH17-149-01	2017 10 11	0.9 - 1.1	0	***0.025***	0.031	0.052	< 0.005	< 0.005	< 0.02	0.02	0.019	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																					
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-150	BH17-150-01	2017 10 11	0.5 - 0.6	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-150-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-150-03	Duplicate	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-151	BH17-151-01	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-152	BH17-152-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-152-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-153	BH17-153-01	2017 10 11	0.5 - 0.6	10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-153-02	2017 10 11	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-153-03	Duplicate	0.9 - 1.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BH17-154	BH17-154-01	2017 10 11	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-154-02	2017 10 11	0.9 - 1.1	0	***0.06***	0.90	1.20	< 0.05	< 0.05	0.2	***1.4***	< 0.04	< 0.01	0.09	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-154-03	2017 10 11	1.4 - 1.7	0	***1.24***	7.01	12.2	< 0.05	< 0.05	***1.0***	***2.2***	< 0.04	< 0.01	0.08	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.5	< 0.05	< 0.6
	BH17-154-04	2017 10 11	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-154-05	2017 10 11	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-155	BH17-155-01	2017 10 12	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-155-02	2017 10 12	3.4 - 3.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-155-03	2017 10 12	4.3 - 4.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-155-04	2017 10 12	5.3 - 5.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-155-05	2017 10 12	6.4 - 6.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-155-06	2017 10 12	7.3 - 7.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-155-07	2017 10 12	7.9 - 8.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-156	BH17-156-03	2017 10 12	1.4 - 1.5	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-156-04	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-156-05	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-157	BH17-157-01	2017 10 12	0.5 - 0.6	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-157-02	2017 10 12	1.4 - 1.7	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-157-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-157-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-158	BH17-158-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-158-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-159	BH17-159-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-159-02	2017 10 12	1.4 - 1.7	125	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-159-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-159-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-160	BH17-160-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-160-02	Duplicate	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-160-03	2017 10 12	1.4 - 1.5	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-161	BH17-161-01	2017 10 12	0.5 - 0.6	180	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-161-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-161-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-161-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-162	BH17-162-01	2017 10 12	0.5 - 0.6	780	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-162-02	2017 10 12	1.4 - 1.7	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-162-03	2017 10 12	2.4 - 2.7	30	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-162-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-163	BH17-163-05	2017 10 12	3.4 - 3.7	15	< 0.005	< 0.005	0.011	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-164	BH17-164-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-164-02	2017 10 12	1.4 - 1.7	270	0.006	0.014	0.034	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-164-03	2017 10 12	2.4 - 2.7	25	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-164-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-165	BH17-165-01	2017 10 12	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-165-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-166	BH17-166-01	2017 10 12	0.3 - 0.6	15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-166-02	2017 10 12	1.4 - 1.5	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-167	BH17-167-01	2017 10 12	0.3 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-167-02	2017 10 12	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-167-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-167-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 10 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[b] (ppm)	Polycyclic Aromatic Hydrocarbons																					
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Confirmatory Boreholes and Test Pits																											
BH17-168	BH17-168-02	2017 10 12	1.4 - 1.7	135	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-168-03	2017 10 12	2.3 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-168-04	2017 10 12	2.9 - 3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-169	BH17-169-01	2017 10 12	0.3 - 0.6	50	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-169-02	2017 10 12	1.4 - 1.7	400	***0.067***	0.018	0.043	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-170	BH17-170-01	2017 10 12	0.5 - 0.6	720	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-170-02	2017 10 12	1.4 - 1.7	80	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-174	BH17-174-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-174-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-175	BH17-175-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-175-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-176	BH17-176-01	2017 10 13	0.5 - 0.6	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-176-02	Duplicate	0.5 - 0.6	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-176-03	2017 10 13	1.4 - 1.7	5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-177	BH17-177-01	2017 10 13	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-177-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-178	BH17-178-01	2017 10 13	0.3 - 0.6	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-178-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-179	BH17-179-01	2017 10 13	0.5 - 0.6	0	0.006	0.006	0.012	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-179-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-180	BH17-180-01	2017 10 13	0.5 - 0.6	80	0.009	0.010	0.017	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-180-02	2017 10 13	1.4 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-03	TP17-03-01	2017 11 24	0.3 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	TP17-03-02	2017 11 24	0.6 - 0.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-04	TP17-04-01	2017 11 24	3.0 - 3.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	TP17-04-02	Duplicate	3.0 - 3.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TP17-05	TP17-05-01	2017 11 24	3.0 - 3.1	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-06	TP17-06-01	2017 11 25	1.5 - 1.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-07	TP17-07-01	2017 11 25	1.4 - 1.5	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	TP17-07-02	2017 11 25	1.5 - 1.7	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-08	TP17-08-01	2017 11 25	3.0	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[c]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[d]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[d]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260, B6A9839, B6B0632, B6B2566, B6B3266.
Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17N294251, 17Y270903, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD	Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.
SHADOW	Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[c] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[d] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[e] Guidelines use 10-5 incremental risk.

TABLE 11: Summary of Analytical Results for Soil - Total Metals - Confirmatory Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	pH pH	Soil Salinity Saturated Paste Conductivity µS/cm	Total Metals Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Beryllium µg/g	Cadmium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Strontiu µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g
BH17-70	BH17-70-05	2017 10 06	3.2 - 3.8	***8.68***	240	5,350	0.4	6.4	136	0.3	0.20	12	5.2	12.8	12,400	9.8	6.6	248	0.03	0.6	16.7	0.4	< 0.5	77	< 0.1	0.2	0.5	17	37
BH17-75	BH17-75-01	2017 10 05	0.3 - 0.6	***8.51***	340	7,680	0.7	7.3	204	0.4	0.30	17	7.8	19.4	17,400	11.8	9.5	316	0.06	1.0	23.7	0.5	< 0.5	98	0.1	0.3	0.6	24	59
BH17-84	BH17-84-03	2017 10 07	1.8 - 2.1	***8.29***	2,680	7,360	0.5	5.7	116	0.3	0.24	21	6.8	14.6	18,500	6.7	9.4	325	0.04	0.6	25.5	< 0.1	< 0.5	22	< 0.1	1.3	0.6	26	48
	BH17-84-04	Duplicate	1.8 - 2.1	***8.39***	2,470	7,250	0.5	5.8	104	0.3	0.23	22	6.7	13.9	18,600	6.5	8.7	313	0.03	0.5	25.0	0.2	< 0.5	21	< 0.1	0.9	0.9	26	45
	QA/QC RPD%			1	8	2	0	2	11	*	4	5	1	5	1	3	8	4	*	*	2	*	*	5	*	*	*	0	6
BH17-86	BH17-86-01	2017 10 07	0.5 - 0.6	***8.40***	490	7,200	0.6	7.1	214	0.3	0.49	17	6.8	16.7	17,900	37.5	7.6	400	0.05	0.7	16.8	0.7	< 0.5	66	< 0.1	1.4	0.6	25	103
BH17-88	BH17-88-02	2017 10 07	1.4 - 1.7	8.00	300	8,060	0.5	4.5	99.3	0.3	0.16	22	6.7	14.6	19,000	6.9	9.3	306	0.04	0.6	23.6	0.2	< 0.5	13	< 0.1	0.6	0.6	26	44
BH17-93	BH17-93-04	2017 10 07	3.4 - 3.7	***8.98***	370	5,590	0.3	3.6	124	0.2	0.18	17	5.0	10.1	13,300	4.4	5.3	227	0.03	0.4	17.2	0.1	< 0.5	57	< 0.1	0.4	0.7	22	32
BH17-98	BH17-98-01	2017 10 08	0.5 - 0.8	***8.29***	210	10,500	0.6	**10.8**	178	0.6	0.16	40	14.8	17.2	21,800	9.7	13.7	316	0.03	0.8	38.3	0.1	< 0.5	14	< 0.1	0.5	1.0	48	77
BH17-100	BH17-100-02	2017 10 08	1.4 - 1.7	***8.94***	290	5,070	0.2	3.4	93.2	0.2	0.15	13	4.6	11.4	13,100	5.4	4.5	225	0.03	0.3	14.6	< 0.1	< 0.5	59	< 0.1	0.4	0.3	18	26
	BH17-100-03	Duplicate	1.4 - 1.7	***8.85***	-	4,210	0.2	3.1	79.1	0.2	0.13	11	4.1	9.7	11,200	12.3	3.9	216	0.03	0.4	22.0	< 0.1	< 0.5	50	< 0.1	0.3	0.3	16	25
	QA/QC RPD%			1	-	19	*	9	16	*	14	17	11	16	16	78	14	4	*	*	40	*	*	17	*	*	*	12	4
BH17-103	BH17-103-04	2017 10 08	6.4 - 6.6	***9.11***	270	5,890	0.3	3.4	137	0.2	0.18	30	6.1	10.9	16,100	4.1	5.7	301	0.02	0.4	26.2	< 0.1	< 0.5	69	< 0.1	0.4	0.4	32	34
BH17-112	BH17-112-01	2017 10 08	0.5 - 0.6	***9.31***	1,310	6,870	0.6	***14.4***	293	0.5	0.45	17	11.8	30.9	24,500	74.4	7.9	461	0.19	0.8	22.9	0.3	< 0.5	57	0.1	0.7	0.5	30	93
BH17-124	BH17-124-01	2017 10 10	0.5 - 0.6	***9.02***	2,220	4,830	0.4	3.4	114	0.2	0.19	14	4.5	11.8	11,600	7.8	5.2	219	0.03	0.5	14.8	< 0.1	< 0.5	71	< 0.1	0.3	0.4	18	35
BH17-127	BH17-127-05	2017 10 10	4.4 - 4.7	***8.87***	400	4,980	0.3	3.3	131	0.2	0.16	17	5.1	10.4	12,400	6.0	5.3	242	0.01	0.5	17.7	0.2	< 0.5	68	< 0.1	0.3	0.5	22	30
BH17-129	BH17-129-06	2017 10 10	4.4 - 4.7	7.76	9,900	5,550	0.4	3.6	110	0.2	0.17	19	4.7	10.6	13,400	4.8	6.2	172	0.03	0.6	19.6	0.3	< 0.5	56	< 0.1	0.3	0.5	23	33
BH17-131	BH17-131-01	2017 10 10	0.5 - 0.6	7.88	11,100	8,200	0.6	7.0	155	0.4	0.32	19	6.9	16.4	19,200	23.9	8.2	280	0.06	0.8	22.2	0.4	< 0.5	38	0.1	0.4	0.7	28	69
BH17-137	BH17-137-03	2017 10 11	1.4 - 1.7	***8.81***	5,890	5,180	0.3	4.4	151	0.2	0.17	17	4.5	10.0	12,200	4.8	6.0	286	0.02	0.6	16.1	< 0.1	< 0.5	24	< 0.1	0.2	0.6	21	29
BH17-138	BH17-138-04	2017 10 11	3.4 - 3.7	***9.64***	8,170	5,660	0.3	3.3	83.6	0.2	0.20	21	5.5	10.8	13,100	3.6	6.0	220	0.03	0.4	21.7	< 0.1	< 0.5	50	< 0.1	0.4	0.5	26	37
	BH17-138-05	Duplicate	3.4 - 3.7	***9.67***	6,950	5,840	0.4	3.6	98.5	0.2	0.20	17	5.1	10.5	14,300	3.6	5.0	223	0.03	0.5	19.9	< 0.1	< 0.5	56	< 0.1	0.2	0.4	24	33
	QA/QC RPD%			0	16	3	*	9	16	*	0	21	8	3	9	0	18	1	*	*	9	*	*	11	*	*	*	8	11
BH17-140	BH17-140-01	2017 10 11	0.3 - 0.6	***8.46***	-	8,020	0.6	6.6	219	0.4	0.66	19	7.0	19.9	18,300	27.1	9.1	251	0.04	1.3	21.0	0.7	< 0.5	90	0.1	0.6	0.6	27	69
BH17-143	BH17-143-04	2017 10 11	6.4 - 6.7	***9.30***	-	4,110	0.3	3.5	111	0.2	0.29	13	4.0	8.9	10,300	3.1	4.2	394	0.03	0.6	16.2	< 0.1	< 0.5	37	< 0.1	< 0.2	0.5	17	34
BH17-147	BH17-147-02	2017 10 11	1.4 - 1.7	***9.12***	10,010	9,930	0.6	9.0	200	0.5	0.17	29	9.5	18.8	20,300	13.2	12.9	560	0.04	0.7	30.5	< 0.1	< 0.5	23	0.1	0.6	0.7	35	63
BH17-155	BH17-155-04	2017 10 12	5.3 - 5.6	***9.07***	330	4,980	0.3	4.8	102	0.2	0.17	13	4.4	17.6	11,400	4.4	5.3	247	0.04	0.5	16.5	0.3	< 0.5	74	< 0.1	< 0.2	0.4	22	30
BH17-161	BH17-161-03	2017 10 12	2.3 - 2.6	***9.01***	260	5,360	0.4	4.2	176	0.2	0.22	12	4.6	12.5	11,700	4.8	5.3	236	0.04	0.5	14.2	0.1	< 0.5	110	< 0.1	< 0.2	0.5	21	30
BH17-164	BH17-164-03	2017 10 12	2.4 - 2.7	***8.03***	230	8,630	0.4	6.6	143	0.4	0.14	23	6.6	11.8	18,000	6.3	7.6	304	0.03	0.8	23.8	0.1	< 0.5	14	< 0.1	0.3	0.7	30	41
BH17-165	BH17-165-01	2017 10 12	0.5 - 0.6	***8.33***	190	10,400	0.3	7.6	191	0.4	0.09	24	7.9	10.3	18,900	9.3	12.4	251	0.02	0.5	20.3	< 0.1	< 0.5	16	< 0.1	0.5	0.6	32	49
BH17-167	BH17-167-04	2017 10 12	2.9 - 3.0	***9.47***	640	8,560	0.6	8.8	97.5	0.4	0.18	28	8.2	18.5	19,900	8.3	10.5	344	0.03	0.8	30.9	0.3	< 0.5	13	0.1	0.4	0.8	30	54
BH17-176	BH17-176-01	2017 10 13	0.5 - 0.6	***8.50***	280	6,400	0.4	5.2	118	0.3	0.17	22	6.6	12.9	14,100	5.3	8.2	282	0.05	0.5	26.1	0.3	< 0.5	45	< 0.1	0.3	0.6	28	40
Federal Guideline																													
CCME CEQG Residential Coarse-Grained (RL)[a]				6.0 - 8.0	n/a	n/a	20	12	500	4	10	64	50	63	n/a	140	n/a	n/a	6.6	10	45	1	20	n/a	1	50	23	130	200
BC Standard																													
CSR Low Density Residential Land Use (RLLD)[b]				n/a	n/a	40,000	20	10	350	85[c]	20[c]	60	25	150[c]	35,000	120[c]	30	2,000	10	15	150[c]	1	20	9,500	9	50	30	100	450[c]
CSR Industrial Land Use (IL)[b]				n/a	n/a	250,000	40	10	350	350[c]	50[c]	60	25	300[c]	150,000	1,000[c]	450	2,000	75	15	250[c]	1	40	150,000	25	300	30	100	450[c]

Associated AGAT file(s): 17N270889, 17N272759, 17N273270, 17Y270903.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline
SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[c] Standard is pH dependent.

TABLE 12: Summary of Analytical Results for Soil - Hydrocarbons - Interim Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
					Benzene µg/g	Ethylbenzene µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 1																		
EXC16-1-108	EXC16-1-108	2016 11 13	2.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	840	< 100	< 10	***610***	170	< 50	-	< 0.10
EXC16-1-109	EXC16-1-109	2016 11 13	1.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	890	170	< 10	***700***	***460***	69	-	< 0.10
EXC16-1-110	EXC16-1-110	2016 11 13	0.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	**2,500**	850	< 10	***1,700***	***1,500***	240	-	< 0.10
EXC16-1-124	EXC16-1-124	2016 11 14	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	770	< 100	< 10	***570***	230	< 50	-	< 0.10
	EXC16-1-D13	Duplicate	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	860	110	< 10	***690***	270	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	11	*	*	19	*	*	-	*
EXC16-1-161	EXC16-1-161	2016 11 17	4.0	35	< 0.0050	0.016	< 0.020	0.45	< 0.030	25	210	< 100	26	***160***	50	< 10	-	< 0.10
EXC16-1-173	EXC16-1-173	2016 11 18	3.5	20	< 0.0050	< 0.010	0.064	< 0.040	< 0.030	< 7.0	**2,100**	< 100	< 10	***1,600***	470	< 50	-	< 0.10
	EXC16-1-D17	Duplicate	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	**2,100**	< 100	< 10	***1,600***	480	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	0	*	*	0	2	*	-	*
EXC16-1-174	EXC16-1-174	2016 11 18	3.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	25	2,000	170	***32***	***1,400***	650	< 50	-	< 0.10
EXC16-1-175	EXC16-1-175	2016 11 18	3.5	10	< 0.0050	0.017	< 0.020	0.64	< 0.030	40	**2,600**	200	***48***	***2,000***	700	< 50	-	< 0.10
EXC16-1-176	EXC16-1-176	2016 11 18	3.5	10	< 0.0050	0.017	< 0.020	0.72	< 0.030	35	1,300	< 100	***54***	***970***	330	< 50	-	< 0.10
EXC16-1-181	EXC16-1-181	2016 11 19	5.5	30	< 0.0050	< 0.010	< 0.020	0.078	< 0.030	37	1,800	150	***37***	***1,400***	450	< 10	-	< 0.10
EXC16-1-182	EXC16-1-182	2016 11 19	4.5	20	< 0.0050	< 0.010	< 0.020	0.13	< 0.030	42	1,500	170	***48***	***1,200***	460	< 10	-	< 0.10
EXC16-1-183	EXC16-1-183	2016 11 19	3.5	20	< 0.0050	< 0.010	< 0.020	0.11	< 0.030	35	1,500	150	***39***	***1,200***	460	< 10	-	< 0.10
EXC16-1-187	EXC16-1-187	2016 11 19	2.5	75	0.014	***2.6***	0.071	***30***	0.35	**590**	**5,200**	760	***680***	***3,400***	2,100	< 50	-	< 0.10
EXC16-1-188	EXC16-1-188	2016 11 19	1.5	100	0.029	***6.6***	0.048	***42***	< 0.030	**1,500**	**16,000**	**2,900**	***1,600***	***12,000***	***8,500***	< 50	-	< 0.10
	EXC16-1-D19	Duplicate	1.5	100	***0.038***	***9.0***	***0.11***	***54***	< 0.030	**1,900**	**12,000**	**2,500**	***2,600***	***8,600***	***6,200***	< 50	-	< 0.10
	QA/QC RPD%				27	31	*	25	*	24	29	15	48	33	31	*	-	*
EXC16-1-189	EXC16-1-189	2016 11 19	0.5	100	***0.031***	***3.9***	< 0.020	**11**	< 0.030	**2,100**	**26,000**	**6,400**	***2,100***	***18,000***	***15,000***	< 250	-	< 0.10
EXC16-1-212	EXC16-1-212	2016 11 21	6.0	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	12	1,900	240	12	***1,500***	800	16	-	< 0.10
EXC16-1-213	EXC16-1-213	2016 11 21	6.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	-	< 0.10
EXC16-1-215	EXC16-1-215	2016 11 21	6.5	60	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	94	**4,100**	**13,000**	***100***	***3,400***	***17,000***	9,100	-	< 0.10
EXC16-1-222	EXC16-1-222	2016 11 21	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	330	< 100	< 10	***290***	150	21	-	< 0.10
EXC16-1-224	EXC16-1-224	2016 11 21	3.0	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	470	< 100	< 10	***430***	260	54	-	< 0.10
EXC16-1-225	EXC16-1-225	2016 11 21	3.0	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	280	**2,700**	< 10	***170***	***3,300***	1,500	-	< 0.10
Excavation Area 3A																		
EXC16-3A-057	EXC16-3A-057	2016 11 11	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-058	EXC16-3A-058	2016 11 11	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-059	EXC16-3A-059	2016 11 11	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	620	570	< 10	***300***	***760***	340	1,500	< 0.10
EXC16-3A-060	EXC16-3A-060	2016 11 11	2.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-061	EXC16-3A-061	2016 11 11	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	220	< 100	< 10	140	78	< 50	-	< 0.10
EXC16-3A-062	EXC16-3A-062	2016 11 11	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	**370**	**16,000**	1,000	***510***	***12,000***	***3,300***	< 50	-	< 0.10
EXC16-3A-063	EXC16-3A-063	2016 11 11	2.5	10	< 0.0050	< 0.010	0.048	0.070	< 0.030	**410**	< 100	< 100	***360***	20	< 50	< 50	-	< 0.10
EXC16-3A-064	EXC16-3A-064	2016 11 11	1.5	10	< 0.0050	< 0.010	< 0.020	0.36	< 0.030	**320**	**1,900**	130	***280***	***1,500***	260	< 50	-	< 0.10
EXC16-3A-065	EXC16-3A-065	2016 11 11	0.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-066	EXC16-3A-066	2016 11 11	2.5	10	< 0.0050	< 0.010	< 0.020	0.14	< 0.030	18	940	< 100	24	***720***	180	< 50	-	< 0.10
EXC16-3A-067	EXC16-3A-067	2016 11 11	1.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-068	EXC16-3A-068	2016 11 11	0.5	80	< 0.0050	***1.5***	0.10	***38***	< 0.030	**2,600**	**19,000**	740	***2,900***	***15,000***	***2,900***	170	-	< 0.10
	EXC16-3A-D6	Duplicate	0.5	80	< 0.0050	***1.2***	0.088	***35***	< 0.030	**2,700**	**14,000**	510	***3,000***	***11,000***	***2,000***	110	-	< 0.10
	QA/QC RPD%				*	22	*	8	*	4	30	37	3	31	37	*	-	*
EXC16-3A-069	EXC16-3A-069	2016 11 11	2.5	25	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	18	61	< 50	-	< 0.10
EXC16-3A-070	EXC16-3A-070	2016 11 11	1.5	20	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	52	< 50	-	< 0.10
EXC16-3A-071	EXC16-3A-071	2016 11 11	0.5	10	< 0.0050	< 0.010	< 0.030	< 0.040	< 0.030	< 7.0	**1,800**	**2,300**	< 10	***630***	***3,300***	790	-	< 0.10
EXC16-3A-072	EXC16-3A-072	2016 11 11	2.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	850	< 100	< 10	***560***	170	< 50	-	< 0.10
EXC16-3A-073	EXC16-3A-073	2016 11 11	1.5	15	< 0.0050	< 0.010	0.026	< 0.040	< 0.030	< 7.0	480	< 100	< 10	***340***	61	< 50	-	< 0.10
EXC16-3A-074	EXC16-3A-074	2016 11 11	0.5	10	< 0.0050	< 0.010	0.064	< 0.040	< 0.030	< 7.0	160	230	< 10	66	180	66	-	< 0.10
EXC16-3A-079	EXC16-3A-079	2016 11 11	1.5	15	< 0.0050	< 0.010	0.043	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-080	EXC16-3A-080	2016 11 11	0.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-082	EXC16-3A-082	2016 11 11	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-083	EXC16-3A-083	2016 11 11	0.5	10	< 0.0050	< 0.010	***0.12***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-089	EXC16-3A-089	2016 11 11	3.0	20	-	-	-	-	-	-	**3,100**	120	-	***2,200***	440	< 50	-	-
	EXC16-3A-D8	Duplicate	3.0	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	110	**2,800**	110	***150***	***2,200***	490	< 50	-	< 0.10
	QA/QC RPD%				-	-	-	-	-	*	10	*	-	0	11	*	-	*
EXC16-3A-090	EXC16-3A-090	2016 11 11	5.5	20	< 0.0050	< 0.010	< 0.020	0.59	< 0.030	**230**	**3,500**	140	***330***	***2,700***	680	< 50	-	< 0.10
EXC16-3A-091	EXC16-3A-091	2016 11 11	4.5	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	170	600	< 100	***160***	***510***	150	< 50	-	< 0.10
EXC16-3A-092	EXC16-3A-092	2016 11 11	3.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	20	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-241	EXC16-3A-241	2016 11 23	3.5	55	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-242	EXC16-3A-242	2016 11 23	4.5	60	< 0.0050	< 0.010	0.026	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-243	EXC16-3A-243	2016 11 23	5.5	60	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-244	EXC16-3A-244	2016 11 23	3.5	50	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	1,600	< 100	< 10	***1,500***	360	< 50	-	< 0.10
EXC16-3A-245	EXC16-3A-245	2016 11 23	4.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-246	EXC16-3A-246	2016 11 23	5.5	45	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-247	EXC16-3A-247	2016 11 23	3.5	50	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	140	160	< 100	***130***	***180***	< 50	< 50	-	< 0.10
EXC16-3A-248	EXC16-3A-248	2016 11 23	4.5	45	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	110	360	< 100	***100***	***300***	80	< 50	-	< 0.10
EXC16-3A-249	EXC16-3A-249	2016 11 23	5.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	150	340	< 100	***170***	***250***	< 50	< 50	-	< 0.10
EXC16-3A-250	EXC16-3A-250	2016 11 23	3.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	140	< 100	< 10	110	< 50	< 50	-	< 0.10
EXC16-3A-251	EXC16-3A-251	2016 11 23	4.5	30	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	410	< 100	< 10	***260***	110	< 50	-	< 0.10
EXC16-3A-252	EXC16-3A-252	2016 11 23	5.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-253	EXC16-3A-253	2016 11 23	3.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-254	EXC16-3A-254	2016 11 23	4.5	50	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-3A-255	EXC16-3A-255	2016 11 23	5.5	55	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
TP16-3	TP16-3-1.3	2016 11 24	1.0 - 1.3	510	***0.26***	***4.5***	***7.3***	***89***	< 0.030	**3,300**	**45,000**	**8,100**	***3,600***	***17,000***	***9,600***	54	-	< 0.10
	EXC16-D25	Duplicate	1.0 - 1.3	510	***0.51***	***9.0***	***15***	***170***	< 0.030	**6,200**	**53,000**	**9,700**	***6,900***	***19,000***	***11,000***	70	-	< 0.10
	QA/QC RPD%				65	67	69	63	*	61	16	18	63	11	14	*	-	*
	TP16-3-1.5	2016 11 24	1.3 - 1.5	380	***0.12***	***8.1***	***6.1***	***88***	< 0.030	**2,800**	**7,400**	1,000	***3,100***	***4,800***	***1,900***	< 50	-	< 0.10
	EXC16-D26	Duplicate	1.3 - 1.5	380	***0.039***	***3.0***	***2.2***	***33***	< 0.030	**760**	**8,100**	**1,200**	***850***	***5,300***	***2,300***	< 50	-	< 0.10
	QA/QC RPD%				102	92	94	91	*	115	9	18	114	10	19	*	-	*
	TP16-3-2.5	2016 11 24	2.0 - 2.5	150	***0.047***	***1.6***	***2.1***	***24***	< 0.030	**870**	**11,000**	880	***1,000***	***9,600***	***3,000***	< 50	-	< 0.10
	EXC16-D27	Duplicate	2.0 - 2.5	150	0.030	***0.91***	***1.1***	***14***	< 0.030	**500**	**11,000**	1,000	***600***	***8,800***	***2,900***	< 50	-	< 0.10
	QA/QC RPD%				44	55	62	53	*	54	0	13	50	9	3	*	-	*
Federal Guideline/Standard																		
CCME CEQG Residential Coarse-Grained Surface (RL Surface) (<1.5m)					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG Residential Coarse-Grained Subsoil (RL Subsoil) (>1.5m)					0.03[e]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260.
Associated AGAT file(s): 17N272759, 17N273270, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 12 (Cont'd): Summary of Analytical Results for Soil - Hydrocarbons - Interim Excavation Samples

					Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions					MTBE
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Benzene µg/g	Ethylbenzen µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	F4G (>C50) µg/g	MTBE µg/g
Excavation Area 3B																		
EXC16-3B-129	EXC16-3B-129	2016 11 17	0.3	10	0.0067	0.030	0.051	0.25	< 0.030	< 10	590	270	< 10	***340***	***560***	55	-	< 0.10
EXC16-3B-135	EXC16-3B-135	2016 11 17	0.5	40	0.028	***1.3***	***2.5***	***13***	< 0.030	200	**7,300**	**2,000**	***230***	***4,800***	***3,700***	190	-	< 0.10
EXC16-3B-164	EXC16-3B-164	2016 11 17	0.3	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	**1,800**	**1,100**	< 10	***760***	***2,100***	67	-	< 0.10
Excavation Area 3C																		
EXC16-3C-228	EXC16-3C-228	2016 11 22	4.5	100	< 0.0050	< 0.010	0.046	***48***	< 0.030	190	**4,400**	1,300	***200***	***3,600***	***3,200***	580	-	< 0.10
EXC16-3C-229	EXC16-3C-229	2016 11 22	3.5	480	***0.074***	***0.85***	***2.2***	***690***	< 0.030	**1,600**	**12,000**	2,500	***1,800***	***9,400***	***5,900***	190	-	< 0.10
	EXC16-3C-D23	Duplicate	3.5	480	***0.097***	0.079	***2.0***	***550***	< 0.030	**1,300**	**13,000**	2,500	***1,500***	***10,000***	***6,900***	230	-	< 0.10
	QA/QC RPD%				27	166	10	23	*	21	8	0	18	6	16	19	-	*
EXC16-3C-230	EXC16-3C-230	2016 11 22	2.5	550	0.016	***0.10***	***0.37***	***380***	< 0.030	**1,300**	**6,100**	280	***1,400***	***5,600***	740	< 40	-	< 0.10
EXC16-3C-231	EXC16-3C-231	2016 11 22	1.5	270	0.023	< 0.010	***0.28***	***56***	< 0.030	**600**	**6,900**	**1,100**	***630***	***5,700***	***2,500***	< 40	-	< 0.10
EXC16-3C-232	EXC16-3C-232	2016 11 22	0.5	230	0.0057	< 0.010	0.048	***18***	< 0.030	200	**6,900**	**1,400**	***230***	***5,100***	***3,100***	67	-	< 0.10
EXC16-3C-235	EXC16-3C-235	2016 11 22	1.5	35	0.011	< 0.010	0.072	***28***	< 0.030	**270**	< 100	< 100	***300***	< 10	< 10	< 10	-	< 0.10
EXC16-3C-236	EXC16-3C-236	2016 11 22	0.5	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	220	< 10	40	***360***	160	-	< 0.10
EXC16-3C-269	EXC16-3C-269	2016 11 24	0.5	35	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	260	< 10	27	230	71	-	< 0.10
Excavation Area 5																		
EXC16-5-004	EXC16-5-004	2016 11 08	0.5	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	35	< 100	< 100	***42***	46	< 50	< 50	-	< 0.10
EXC16-5-013	EXC16-5-013	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.5	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-014	EXC16-5-014	2016 11 10	0.5	60	< 0.0050	< 0.010	< 0.020	0.13	< 0.030	9.5	650	1,000	< 10	***260***	***1,200***	780	***4,200***	< 0.10
	EXC16-5-D1	Duplicate	0.5	60	0.023	***0.20***	***0.32***	2.6	< 0.030	76	790	**1,500**	***88***	***330***	***1,900***	1,300	***6,300***	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	19	40	*	24	45	50	40	*
EXC16-5-016	EXC16-5-016	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	7.6	< 100	210	< 10	< 10	180	130	-	< 0.10
EXC16-5-017	EXC16-5-017	2016 11 10	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	17	360	**1,300**	< 10	56	***1,200***	890	***4,600***	< 0.10
EXC16-5-019	EXC16-5-019	2016 11 10	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	8.2	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
	EXC16-5-D2	Duplicate	1.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	62	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
EXC16-5-020	EXC16-5-020	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-022	EXC16-5-022	2016 11 10	1.5	5	< 0.0050	< 0.010	0.030	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	-	< 0.10
EXC16-5-023	EXC16-5-023	2016 11 10	0.5	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	33	**1,300**	**4,300**	29	***860***	***4,900***	1,000	***7,600***	< 0.10
EXC16-5-035	EXC16-5-035	2016 11 10	0.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	12	**2,500**	280	18	***1,800***	***510***	64	-	< 0.10
EXC16-5-042	EXC16-5-042	2016 11 10	1.5	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	11	520	**1,300**	< 10	***220***	***1,600***	1,200	***4,500***	< 0.10
EXC16-5-044	EXC16-5-044	2016 11 10	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	390	200	< 10	***200***	330	92	-	< 0.10
	EXC16-5-D5	Duplicate	3.0	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	210	120	< 10	110	180	< 50	-	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	58	*	*	-	*
EXC16-5-196	EXC16-5-196	2016 11 19	3.3	10	< 0.0050	< 0.010	0.069	0.044	< 0.030	< 7.0	100	< 100	< 10	46	99	< 50	-	< 0.10
EXC16-5-197	EXC16-5-197	2016 11 20	1.5	40	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	760	**2,700**	< 10	***370***	***2,600***	1,900	-	< 0.10
Interim Boreholes and Test Pits																		
BH17-156	BH17-156-01	2017 10 12	0.5 - 0.6	0	< 0.005	0.01	< 0.05	0.13	< 0.05	< 10	**5,400**	**12,300**	< 10	***978***	***13,400***	***3,760***	-	< 0.1
BH17-163	BH17-163-01	2017 10 12	0.5 - 0.6	45	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	BH17-163-02	Duplicate	0.5 - 0.6	45	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	-	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	-	*
	BH17-163-03	2017 10 12	1.4 - 1.5	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	313	23	< 10	***297***	57	< 20	-	< 0.1
	BH17-163-04	2017 10 12	2.4 - 2.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	142	< 20	< 10	136	34	< 20	-	< 0.1
BH17-168	BH17-168-01	2017 10 12	0.3 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	610	**2,320**	< 10	123	***2,950***	1,300	-	< 0.1
BH17-173	BH17-173-01	2017 10 13	0.5 - 0.8	60	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	**4,180**	**21,300**	< 10	***3,410***	***29,500***	***7,220***	-	< 0.1
	BH17-173-02	Duplicate	0.5 - 0.8	60	< 0.005	< 0.01	< 0.05	< 0.05	-	12	-	-	16	-	-	-	-	-
	QA/QC RPD%				*	*	*	*	-	*	-	-	*	-	-	-	-	-
	BH17-173-03	2017 10 13	0.9 - 1.1	20	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	32	< 10	< 20	43	< 20	-	< 0.1
TP17-01	TP17-01-01	2017 11 24	0.5 - 0.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	965	**1,440**	< 10	***524***	***2,390***	760[f]	-	< 0.1
	TP17-01-02	2017 11 24	0.8 - 1.0	10	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	**4,180**	**2,690**	< 10	***3,320***	***3,820***	1,580	-	< 0.1
TP17-02	TP17-02-01	2017 11 24	0.5 - 0.6	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	186	533	< 10	25	***691***	273[f]	-	< 0.1
	TP17-02-02	2017 11 24	0.6 - 0.8	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	196	155	< 10	79	266	69	-	< 0.1
Federal Guideline/Standard																		
CCME CEQG/CWS Residential Coarse-Grained Surface (< 1.5m)[b]					0.03	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	2,800	n/a
CCME CEQG/CWS Residential Coarse-Grained Subsoil (> 1.5m)[b]					0.03	0.082	0.1	11	5	n/a	n/a	n/a	30	150	2,500	10,000	10,000	n/a
BC Standard																		
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	n/a	4,000
CSR Industrial Land Use (IL) (>3.0m)[c]					0.035	15	0.5	6.5	50	200	2,000	5,000	n/a	n/a	n/a	n/a	n/a	20,000

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260.
Associated AGAT file(s): 17N272759, 17N273270, 17Y289089.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] BETX/VPH/F1 analysis from soil jar, not methanol-preserved vial; results could be biased low.
[e] Guidelines use 10-5 incremental risk.
[f] F4 value did not return to baseline; F4 Gravimetric (Gravimetric Heavy Hydrocarbons) not analyzed.

TABLE 13: Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Interim Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 1																											
EXC16-1-108	EXC16-1-108	2016 11 13	2.5	5	0.0064	-	0.018	0.016	0.0060	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-109	EXC16-1-109	2016 11 13	1.5	0	0.0053	-	0.017	0.021	0.0085	0.0082	0.0056	0.0056	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-110	EXC16-1-110	2016 11 13	0.5	0	***0.10***	-	0.20	0.054	0.079	0.14	***0.080***	0.010	0.0076	0.019	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
EXC16-1-124	EXC16-1-124	2016 11 14	3.0	10	0.011	-	0.035	0.015	0.0097	0.013	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
	EXC16-1-D13	Duplicate	3.0	10	***0.018***	-	0.051	0.018	0.011	0.019	0.0074	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.14
		QA/QC RPD%			*	-	37	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-1-161	EXC16-1-161	2016 11 17	4.0	35	***0.12***	-	0.52	< 0.0050	< 0.0050	< 0.020	***0.055***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-173	EXC16-1-173	2016 11 18	3.5	20	< 0.0050	-	0.046	0.027	0.0074	0.043	0.011	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.031	< 0.10	< 0.10
	EXC16-1-D17	Duplicate	3.5	20	< 0.0089	-	0.034	0.022	0.059	0.037	0.0071	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.032	< 0.10	< 0.10
		QA/QC RPD%			*	-	30	*	*	15	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*	*	*
EXC16-1-174	EXC16-1-174	2016 11 18	3.5	10	***0.35***	-	1.6	0.062	0.17	***0.39***	***0.35***	0.046	< 0.0050	0.025	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.49	< 0.10	< 0.10
EXC16-1-175	EXC16-1-175	2016 11 18	3.5	10	***0.49***	-	3.3	0.082	0.11	0.12	***0.47***	0.045	0.0052	0.031	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.42	< 0.10	< 0.10
EXC16-1-176	EXC16-1-176	2016 11 18	3.5	10	***0.23***	-	2.4	0.054	0.12	0.045	***0.48***	0.021	< 0.0050	0.017	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.16	< 0.10	< 0.10
EXC16-1-181	EXC16-1-181	2016 11 19	5.5	30	***1.4***	-	6.5	0.010	0.24	0.19	***0.79***	< 0.0040	< 0.020	0.024	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-182	EXC16-1-182	2016 11 19	4.5	20	***1.5***	-	6.4	0.0091	0.17	0.050	***0.80***	< 0.0040	< 0.020	0.023	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-183	EXC16-1-183	2016 11 19	3.5	20	***0.96***	-	5.7	0.012	0.18	0.032	***0.81***	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-187	EXC16-1-187	2016 11 19	2.5	75	***4.0***	-	17	0.18	***0.73***	***1.8***	***3.3***	0.31	< 0.033	0.17	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	1.8	< 0.10	< 0.10
EXC16-1-188	EXC16-1-188	2016 11 19	1.5	100	***12***	-	46	0.56	***1.9***	***5.6***	***11***	1.0	0.16	0.65	< 0.050	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.10	0.59
	EXC16-1-D19	Duplicate	1.5	100	***9.5***	-	38	0.31	***1.3***	***3.7***	***8.4***	0.57	0.076	0.43	< 0.0050	0.0053	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	1.6	< 0.10	< 0.10
		QA/QC RPD%			23	-	19	57	37	41	27	55	71	41	*	*	-	-	*	*	*	*	*	*	*	*	*
EXC16-1-189	EXC16-1-189	2016 11 19	0.5	100	***13***	-	51	0.86	***2.7***	***9.4***	***17***	1.7	0.23	1.2	< 0.050	< 0.050	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.10	0.59
EXC16-1-212	EXC16-1-212	2016 11 21	6.0	40	***0.032***	-	0.21	0.0095	< 0.0050	0.068	0.022	0.018	< 0.020	0.024	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-213	EXC16-1-213	2016 11 21	6.0	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-215	EXC16-1-215	2016 11 21	6.5	60	< 0.010	-	0.068	0.014	0.050	0.067	< 0.010	0.0045	0.041	0.23	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-222	EXC16-1-222	2016 11 21	2.5	10	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-224	EXC16-1-224	2016 11 21	3.0	10	***0.014***	-	0.027	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-1-225	EXC16-1-225	2016 11 21	3.0	20	0.011	-	0.035	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
Excavation Area 3A																											
EXC16-3A-057	EXC16-3A-057	2016 11 11	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-058	EXC16-3A-058	2016 11 11	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-059	EXC16-3A-059	2016 11 11	0.5	10	***0.21***	-	1.5	0.040	0.16	***0.35***	***0.38***	0.045	0.027	0.060	< 0.010	0.012	-	-	0.021	< 0.010	0.014	< 0.020	< 0.020	< 0.020	-	< 0.10	0.27
EXC16-3A-060	EXC16-3A-060	2016 11 11	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-061	EXC16-3A-061	2016 11 11	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-062	EXC16-3A-062	2016 11 11	0.5	5	***0.18***	-	0.68	0.073	***0.69***	***0.57***	***0.26***	< 0.035	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-063	EXC16-3A-063	2016 11 11	2.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-064	EXC16-3A-064	2016 11 11	1.5	10	***0.14***	-	1.6	0.037	0.037	0.019	***0.056***	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-065	EXC16-3A-065	2016 11 11	0.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-066	EXC16-3A-066	2016 11 11	2.5	10	***0.41***	-	1.6	0.033	0.041	0.12	***0.085***	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-067	EXC16-3A-067	2016 11 11	1.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-068	EXC16-3A-068	2016 11 11	0.5	80	***23***	-	**61**	0.67	***1.4***	***4.2***	***2.1***	0.063	< 0.010	0.042	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	EXC16-3A-D6	Duplicate	0.5	80	***22***	-	60	0.53	***1.2***	***2.5***	***1.7***	0.046	< 0.010	0.034	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
		QA/QC RPD%			4	-	2	23	15	51	21	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-069	EXC16-3A-069	2016 11 11	2.5	25	< 0.010	-	0.022	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-070	EXC16-3A-070	2016 11 11	1.5	20	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-071	EXC16-3A-071	2016 11 11	0.5	10	< 0.010	-	< 0.010	0.015	0.040	0.054	0.024	0.18	0.064	0.21	0.029	0.040	-	-	0.035	< 0.010	0.029	0.028	< 0.020	0.030	-	< 0.10	0.50
EXC16-3A-072	EXC16-3A-072	2016 11 11	2.5	15	< 0.010	-	0.027	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[b]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260.

Associated AGAT file(s): 17N272759, 17N273270, 17Y289089.

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

RPD Denotes relative percent difference.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

RDL Denotes reported detection limit.

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Laboratory detection limit exceeds regulatory standard/guideline.

[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 13 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Interim Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3A																											
EXC16-3A-073	EXC16-3A-073	2016 11 11	1.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-074	EXC16-3A-074	2016 11 11	0.5	10	***0.016***	-	0.052	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-079	EXC16-3A-079	2016 11 11	1.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-080	EXC16-3A-080	2016 11 11	0.5	20	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-082	EXC16-3A-082	2016 11 11	1.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-083	EXC16-3A-083	2016 11 11	0.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-089	EXC16-3A-089	2016 11 11	3.0	20	***0.019***	-	0.068	< 0.028	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.014	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	EXC16-3A-D8	Duplicate	3.0	20	< 0.018[a]	-	0.057	< 0.023	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.013	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
		QA/QC RPD%			*	-	18	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-3A-090	EXC16-3A-090	2016 11 11	5.5	20	< 0.010	-	0.046	0.026	0.025	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-091	EXC16-3A-091	2016 11 11	4.5	15	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-092	EXC16-3A-092	2016 11 11	3.5	20	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-3A-241	EXC16-3A-241	2016 11 23	3.5	55	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-242	EXC16-3A-242	2016 11 23	4.5	60	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-243	EXC16-3A-243	2016 11 23	5.5	60	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-244	EXC16-3A-244	2016 11 23	3.5	50	< 0.018[a]	-	0.073	0.056	0.047	0.0089	***0.23***	< 0.0040	< 0.0050	0.0060	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-245	EXC16-3A-245	2016 11 23	4.5	40	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-246	EXC16-3A-246	2016 11 23	5.5	45	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-247	EXC16-3A-247	2016 11 23	3.5	50	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-248	EXC16-3A-248	2016 11 23	4.5	45	< 0.0050	-	0.023	0.0074	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-249	EXC16-3A-249	2016 11 23	5.5	40	< 0.0050	-	0.0086	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-250	EXC16-3A-250	2016 11 23	3.5	35	< 0.0050	-	0.011	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-251	EXC16-3A-251	2016 11 23	4.5	30	< 0.0050	-	0.0063	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-252	EXC16-3A-252	2016 11 23	5.5	35	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-253	EXC16-3A-253	2016 11 23	3.5	40	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-254	EXC16-3A-254	2016 11 23	4.5	50	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
EXC16-3A-255	EXC16-3A-255	2016 11 23	5.5	55	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
TP16-3	TP16-3-1.3	2016 11 24	1.0 - 1.3	510	***24***	-	**160**	1.9	***6.4***	***11***	***26***	1.7	0.49	1.9	0.066	0.11	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.76
	EXC16-D25	Duplicate	1.0 - 1.3	510	***24***	-	**110**	2.0	***6.6***	***11***	***26***	1.8	0.48	1.9	0.067	0.12	-	-	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-	< 0.10	0.76
		QA/QC RPD%			0	-	37	5	3	0	0	6	2	0	2	9	-	-	*	*	*	*	*	*	-	*	0
	TP16-3-1.5	2016 11 24	1.3 - 1.5	380	***9.1***	-	33	0.39	***1.3***	***1.9***	***5.0***	0.31	0.082	0.35	0.013	0.027	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.10
	EXC16-D26	Duplicate	1.3 - 1.5	380	***10***	-	36	0.43	***1.4***	***2.2***	***6.0***	0.35	0.10	0.41	0.016	0.032	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	0.11
		QA/QC RPD%			9	-	9	10	7	15	18	12	20	16	*	17	-	-	*	*	*	*	*	*	-	*	*
	TP16-3-2.5	2016 11 24	2.0 - 2.5	150	***12***	-	48	0.61	***2.4***	***3.5***	***3.4***	0.34	0.019	0.24	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	EXC16-D27	Duplicate	2.0 - 2.5	150	***9.4***	-	37	0.67	***1.9***	***3.8***	***3.7***	0.37	0.020	0.26	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
		QA/QC RPD%			24	-	26	9	23	8	8	8	*	8	*	*	-	-	*	*	*	*	*	*	-	*	*
Excavation Area 3B																											
EXC16-3B-129	EXC16-3B-129	2016 11 17	0.3	10	***0.29***	-	1.0	0.0084	0.048	0.15	***0.28***	< 0.0040	< 0.020	0.047	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3B-135	EXC16-3B-135	2016 11 17	0.5	40	***3.7***	-	12	0.030	***0.54***	***1.5***	***2.7***	0.17	0.053	0.37	< 0.020	0.026	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.32
EXC16-3B-164	EXC16-3B-164	2016 11 17	0.3	20	***0.13***	-	0.73	0.019	0.029	0.20	***0.48***	< 0.0040	0.062	0.15	< 0.020	0.046	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.33
Excavation Area 3C																											
EXC16-3C-228	EXC16-3C-228	2016 11 22	4.5	100	***2.1***	-	3.9	0.0074	***0.42***	***0.72***	***1.2***	0.045	< 0.020	0.17	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-229	EXC16-3C-229	2016 11 22	3.5	480	***18***	-	37	0.086	***0.94***	***2.5***	***6.7***	0.27	0.13	0.60	< 0.020	0.036	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.32
	EXC16-3C-D23	Duplicate	3.5	480	***21***	-	42	0.24	***1.4***	***3.9***	***8.1***	0.92	0.23	0.74	< 0.020	0.027	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.32
		QA/QC RPD%			15	-	13	94	39	44	19	109	56	21	*	29	*	-	*	*	*	*	*	*	-	*	*
EXC16-3C-230	EXC16-3C-230	2016 11 22	2.5	550	***31***	-	**75**	0.010	0.085	***0.38***	***0.44***	< 0.0040	0.032	0.077	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[b]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260.
Associated AGAT file(s): 17N272759, 17N273270, 17Y289089.

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] Laboratory detection limit exceeds regulatory standard/guideline.
[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 13 (Cont'd): Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Interim Excavation Samples

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
Excavation Area 3C																											
EXC16-3C-231	EXC16-3C-231	2016 11 22	1.5	270	***6.2***	-	18	0.087	***0.54***	***2.0***	***3.1***	< 0.0040	0.11	0.27	< 0.020	0.048	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.33
EXC16-3C-232	EXC16-3C-232	2016 11 22	0.5	230	***2.5***	-	6.4	0.11	***0.97***	***1.2***	***2.2***	0.30	0.21	0.54	< 0.020	0.021	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-235	EXC16-3C-235	2016 11 22	1.5	35	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-236	EXC16-3C-236	2016 11 22	0.5	20	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
EXC16-3C-269	EXC16-3C-269	2016 11 24	0.5	35	***0.016***	-	0.057	< 0.0050	< 0.0050	0.0070	0.016	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
Excavation Area 5						-												-									
EXC16-5-004	EXC16-5-004	2016 11 08	0.5	0	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-013	EXC16-5-013	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-014	EXC16-5-014	2016 11 10	0.5	60	***0.050***	-	0.26	0.021	0.046	0.10	***0.20***	0.029	0.013	0.054	< 0.010	0.017	-	-	0.024	< 0.010	0.019	< 0.020	< 0.020	< 0.020	-	< 0.10	0.30
	EXC16-5-D1	Duplicate	0.5	60	***0.071***	-	0.33	0.026	0.052	0.11	***0.24***	0.027	0.031	0.074	0.017	0.028	-	-	0.038	< 0.010	0.033	< 0.020	< 0.020	0.029	-	< 0.10	0.47
	QA/QC RPD%				35	-	24	*	*	10	18	*	*	31	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-5-016	EXC16-5-016	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-017	EXC16-5-017	2016 11 10	0.5	10	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	0.011	< 0.010	< 0.010	0.015	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	0.034	-	< 0.10	0.15
EXC16-5-019	EXC16-5-019	2016 11 10	1.5	5	***0.21***	-	0.18	< 0.010	***0.64***	***0.54***	***2.0***	0.15	1.4	0.92	0.23	0.14	-	-	0.23	0.073	0.14	0.073	< 0.020	0.077	-	0.21	***3.1***
	EXC16-5-D2	Duplicate	1.5	5	***0.045***	-	0.034	0.087	0.10	0.092	***0.27***	0.31	0.22	0.18	0.44	0.50	-	-	***2.2***	0.72	***1.5***	1.0	0.20	1.0	-	2.1	***25***
	QA/QC RPD%				*	-	*	*	146	142	152	70	146	135	63	112	-	-	162	163	166	*	*	*	-	*	156
EXC16-5-020	EXC16-5-020	2016 11 10	0.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.012	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-022	EXC16-5-022	2016 11 10	1.5	5	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-023	EXC16-5-023	2016 11 10	0.5	5	***0.042***	-	0.15	0.018	0.036	0.033	0.013	< 0.010	< 0.010	0.039	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-035	EXC16-5-035	2016 11 10	0.5	10	***0.018***	-	< 0.032	< 0.010	0.021	< 0.010	< 0.010	< 0.010	< 0.010	0.018	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
EXC16-5-042	EXC16-5-042	2016 11 10	1.5	10	***0.041***	-	0.18	0.017	0.032	0.064	***0.17***	0.027	0.017	0.071	< 0.010	0.021	-	-	0.023	< 0.010	0.021	< 0.020	< 0.020	0.022	-	< 0.10	0.30
EXC16-5-044	EXC16-5-044	2016 11 10	3.0	15	***0.14***	-	1.7	0.040	0.16	***0.26***	***0.84***	0.051	0.067	0.078	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	EXC16-5-D5	Duplicate	3.0	15	***0.085***	-	0.96	0.022	0.087	0.14	***0.47***	0.028	0.015	0.031	< 0.010	< 0.010	-	-	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.020	-	< 0.10	0.14
	QA/QC RPD%				49	-	56	*	59	60	56	*	*	*	*	*	-	-	*	*	*	*	*	*	-	*	*
EXC16-5-196	EXC16-5-196	2016 11 19	3.3	10	***0.096***	-	0.34	0.0078	0.047	0.071	***0.25***	0.027	0.028	0.043	< 0.0050	< 0.0050	-	-	0.015	< 0.0050	0.011	0.0067	< 0.0050	0.0069	-	< 0.10	0.16
EXC16-5-197	EXC16-5-197	2016 11 20	1.5	40	***0.027***	-	0.10	0.0066	0.062	0.085	***0.21***	0.020	0.074	0.13	0.045	< 0.020	0.080	-	0.080	< 0.020	0.062	< 0.050	< 0.050	0.062	-	0.10	1.0
Interim Boreholes and Test Pits																											
BH17-156	BH17-156-01	2017 10 12	0.5 - 0.6	0	< 0.2[d]	0.5	0.6	< 0.2	< 0.2	< 1[d]	***5***	< 0.2	< 0.5	< 0.5	< 2[d]	< 2	< 2[d]	< 2[d]	< 0.05	< 2[d]	< 2[d]	< 1	< 0.2	< 2	< 2	< 2	< 30[d]
BH17-163	BH17-163-01	2017 10 12	0.5 - 0.6	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-163-02	Duplicate	0.5 - 0.6	45	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	BH17-163-03	2017 10 12	1.4 - 1.5	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BH17-163-04	2017 10 12	2.4 - 2.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
BH17-168	BH17-168-01	2017 10 12	0.3 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	0.03	< 0.005	0.05	< 0.05	< 0.05	0.6
BH17-173	BH17-173-01	2017 10 13	0.5 - 0.8	60	< 0.05[d]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2[d]	< 0.04	< 0.1	< 0.1	< 0.3	< 0.5	< 0.5	< 0.5	< 0.05	< 0.5	< 0.3	< 0.2	< 0.05	< 0.5	< 0.5	< 0.5	< 6[d]
	BH17-173-03	2017 10 13	0.9 - 1.1	20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-01	TP17-01-01	2017 11 24	0.5 - 0.8	0	< 0.005	0.018	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	TP17-01-02	2017 11 24	0.8 - 1.0	10	< 0.05[d]	4.23	4.36	< 0.05	< 0.05	***0.7***	***0.44***	< 0.004	< 0.01	0.04	< 0.3	< 0.5	< 0.5	< 0.5	< 0.05	< 0.5	< 0.3	< 0.2	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
TP17-02	TP17-02-01	2017 11 24	0.5 - 0.6	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.02	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	TP17-02-02	2017 11 24	0.6 - 0.8	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
Federal Guideline																											
CCME CEQG Residential Coarse-Grained (RL)[b]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3[e]	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a
CSR Industrial Land Use (IL) (>3.0m)[c]					20	1,000	950	n/a	15,000	9,500	50	30	200	100	10	4,500	10	10	10	10	50	10	10	n/a	10	n/a	n/a

Associated Maxxam file(s): B6A1853, B6A1874, B6A3068, B6A3932, B6A4334, B6A5664, B6A6260.

Associated AGAT file(s): 17N272759, 17N273270, 17Y289089.

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

RPD Denotes relative percent difference.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

RDL Denotes reported detection limit.

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.

[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.

[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

[d] Laboratory detection limit exceeds regulatory standard/guideline.

[e] Guidelines use 10-5 incremental risk.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained (RL) Guideline.

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) (Industrial Land Use [IL] below 3.0 m).

TABLE 14: Sample Log - Import Backfill

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Headspace (ppm)
SS16-01-01	SS16-01-01	2016 10 18	Backfill	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612427.9	606404.6	0.3	0
SS16-01-06	SS16-01-06	2016 10 18	Backfill	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612410.0	606392.3	0.3	0
SS16-02-03	SS16-02-03	2016 10 16	Backfill	SAND, trace gravel, fine, brown, loose, damp, some roots, some organics.	6612350.7	606476.1	0.3	0
SS16-02-04	SS16-02-04	2016 10 16	Backfill	SAND, trace gravel, fine, brown, loose, damp, some roots, some organics.	6612341.2	606450.1	0.3	0
TP16-01	TP16-01	2016 10 18	Backfill	SAND, fine grained, brown, dry.	6612380.1	606469.2	0.0-3.0	0
TP16-02	TP16-02	2016 10 18	Backfill	SAND and GRAVEL, brown, dry.	6612391.6	606438.9	0.0-3.0	0
TP16-03	TP16-03	2016 10 18	Backfill	SAND, fine grained, brown, dry.	6612374.7	606426.2	0.0-3.0	0
TP16-04	TP16-04	2016 10 18	Backfill	SAND and GRAVEL, brown, dry.	6612354.5	606451.8	0.0-3.0	0
Backfill	BF16-01	2016 11 15	Backfill	SAND, some silt, some gravel, brown, loose.	-	-	-	0
	BF16-02	2016 11 15	Backfill	SAND, some silt, some gravel, brown, loose.	-	-	-	0
	BF16-03	2016 11 15	Backfill	SAND and GRAVEL, some silt, grey/brown, loose, dry.	-	-	-	0
	BF16-04	2016 11 15	Backfill	SAND and GRAVEL, some silt, grey/brown, loose, dry.	-	-	-	0
	BF16-05	2016 11 15	Backfill	SAND and GRAVEL, some silt, brown, loose, damp.	-	-	-	0
	BF16-06	2016 11 19	Backfill	SAND, fine grained, some gravel, fine and coarse, subrounded, trace silt, brown, medium dense, damp.	-	-	-	0
	BF16-07	2016 11 19	Backfill	SAND, fine grained, gravelly, fine and coarse, subrounded to rounded, grey, loose to medium dense, damp.	-	-	-	0
	BF16-08	2016 11 19	Backfill	GRAVEL and COBBLES, fine and coarse gravel, subrounded to rounded gravel, subrounded to rounded cobbles, sandy, fine to coarse grained, grey, loose, damp.	-	-	-	0
	BF16-09	2016 11 19	Backfill	SAND, medium grained, trace gravel, fine and coarse, subrounded to rounded, grey, loose, damp.	-	-	-	0
	BF16-10	2016 11 19	Backfill	Blind field duplicate of BF16-09.	-	-	-	0
	BF16-11	2016 12 04	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	15
	BF16-12	2016 12 04	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	10
	BF16-13	2016 12 04	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	15
	BF16-14	2016 12 04	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	20
	BF16-15	2016 12 04	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	10
	BF16-16	2016 12 04	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	15
	BF16-17	2016 12 05	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	20
	BF16-18	2016 12 05	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	15
	BF16-19	2016 12 05	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	0
	BF16-20	2016 12 05	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	5
	BF16-21	2016 12 05	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	5
	BF16-22	2016 12 05	Backfill	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to rounded, grey/brown, loose, damp.	-	-	-	5
	BF17-23	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-24	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-25	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-26	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-27	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, some silt, brown, dense, wet.	-	-	-	0
	BF17-28	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-29	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-30	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, some silt, brown, dense, wet.	-	-	-	0
	BF17-31	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-32	2017 11 18	Backfill	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, rounded, grey/brown, loose, damp.	-	-	-	0
	BF17-33	2017 11 18	Backfill	Blind field duplicate of BF17-32.	-	-	-	0

TABLE 15: Summary of Analytical Results for Soil - Hydrocarbons - Import Backfill

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzen µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
SS16-01-01	SS16-01-01	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	46	30	< 0.10
SS16-01-06	SS16-01-06	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-03	SS16-02-03	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-04	SS16-02-04	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
TP16-01	TP16-01	2016 10 18	0.0 - 3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
TP16-02	TP16-02	2016 10 18	0.0 - 3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
TP16-03	TP16-03	2016 10 18	0.0 - 3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
TP16-04	TP16-04	2016 10 18	0.0 - 3.0	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
Backfill	BF16-01	2016 11 15	-	0	< 0.0050	< 0.010	***0.19***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-01[d,e]	2016 11 15	-	0	-	-	***0.13***	-	-	-	-	-	-	-	-	-	-
	BF16-02	2016 11 15	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-03	2016 11 15	-	0	< 0.0050	< 0.010	0.032	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-04	2016 11 15	-	0	< 0.0050	< 0.010	***1.7***	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-04[d]	2016 11 15	-	0	-	-	0.08	-	-	-	-	-	-	-	-	-	-
	BF16-05	2016 11 15	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-06	2016 11 19	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-06[d]	2016 11 19	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	23	< 0.1
	BF16-07	2016 11 19	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-07[d]	2016 11 19	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF16-08	2016 11 19	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-08[d]	2016 11 19	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF16-09	2016 11 19	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-10	Duplicate	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
	BF16-09[d]	2016 11 19	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF16-10[d]	Duplicate	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
	BF16-11	2016 12 04	-	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-12	2016 12 04	-	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-13	2016 12 04	-	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-14	2016 12 04	-	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-15	2016 12 04	-	10	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-16	2016 12 04	-	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-17	2016 12 05	-	20	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-18	2016 12 05	-	15	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-19	2016 12 05	-	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-20	2016 12 05	-	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-21	2016 12 05	-	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF16-22	2016 12 05	-	5	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 7.0	< 100	< 100	< 10	< 10	< 50	< 50	< 0.10
	BF17-23	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-24	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-25	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-26	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-27	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-28	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-29	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-30	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-31	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-32	2017 11 18	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	BF17-33	Duplicate	-	0	< 0.005	< 0.01	< 0.05	< 0.05	< 0.05	< 10	< 20	< 20	< 10	< 20	< 20	< 20	< 0.1
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface)[b]					0.03[f]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000

Associated Maxxam file(s): B692861, B6A2908, B6A4324, B6A9824.
Associated AGAT file(s): 16C162100, 16V162743, 17N286609.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained Surface (RL Surface) Guideline

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) standard

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] Analyzed by AGAT.
[e] Original vial re-analyzed by AGAT (due to no second vial available).
[f] Guidelines use 10-5 incremental risk.

TABLE 16: Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons - Import Backfill

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Polycyclic Aromatic Hydrocarbons																						
					Naphthalene µg/g	1-Methyl naphthalene µg/g	2-Methyl naphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(j) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	Quinoline µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
SS16-01-01	SS16-01-01	2016 10 18	0.3	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
SS16-01-06	SS16-01-06	2016 10 18	0.3	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
SS16-02-03	SS16-02-03	2016 10 16	0.3	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
SS16-02-04	SS16-02-04	2016 10 16	0.3	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
TP16-01	TP16-01	2016 10 18	0.0 - 3.0	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
TP16-02	TP16-02	2016 10 18	0.0 - 3.0	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
TP16-03	TP16-03	2016 10 18	0.0 - 3.0	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
TP16-04	TP16-04	2016 10 18	0.0 - 3.0	0	< 0.010	-	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	-	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	-	0.041	0.31
Backfill	BF16-01	2016 11 15	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-02	2016 11 15	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-03	2016 11 15	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-04	2016 11 15	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-05	2016 11 15	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-06	2016 11 19	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-06[d]	2016 11 19	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	-	< 0.05	< 0.6
	BF16-07	2016 11 19	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-07[d]	2016 11 19	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	-	< 0.05	< 0.6
	BF16-08	2016 11 19	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-08[d]	2016 11 19	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	-	< 0.05	< 0.6
	BF16-09	2016 11 19	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	BF16-10	Duplicate	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.10	< 0.10
	QA/QC RPD%				*	-	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*	*	*
	BF16-09[d]	2016 11 19	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	-	< 0.05	< 0.6
	BF16-10[d]	Duplicate	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	-	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*
	BF16-11	2016 12 04	-	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-12	2016 12 04	-	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-13	2016 12 04	-	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-14	2016 12 04	-	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-15	2016 12 04	-	10	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-16	2016 12 04	-	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-17	2016 12 05	-	20	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-18	2016 12 05	-	15	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-19	2016 12 05	-	0	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-20	2016 12 05	-	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-21	2016 12 05	-	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF16-22	2016 12 05	-	5	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0040	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.10	< 0.10
	BF17-23	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-24	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-25	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-26	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-27	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-28	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-29	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-30	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-31	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-32	2017 11 18	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	BF17-33	Duplicate	-	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.01	< 0.01	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.02	< 0.005	< 0.05	< 0.05	< 0.05	< 0.6
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Federal Guideline																											
CCME CEQG Residential Coarse-Grained Surface (RL Surface[b]					0.013	n/a	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	1	0.6	1	1	n/a	n/a	5.3	1
BC Standard																											
CSR Low Density Residential Land Use (RLLD) (< 3.0m[c]					0.6	250	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	1	5	1	1	n/a	2.5	n/a	n/a

Associated Maxxam file(s): B692861, B6A2908, B6A4324, B6A9824.
Associated AGAT file(s): 16V162743, 17N286609.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained Surface (RL Surface) Guideline

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) standard

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] Analyzed by AGAT.

TABLE 17: Summary of Analytical Results for Soil - Total Metals - Import Backfill

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Aluminum µg/g	Antimony µg/g	Arsenic µg/g	Barium µg/g	Beryllium µg/g	Cadmium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Strontiu µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g
						Total Metals																						
SS16-01-01	SS16-01-01	2016 10 18	0.3	7.60	11,700	0.43	6.37	204	0.62	0.501	31.3	9.25	15.3	24,400	13.8	13.0	453	< 0.050	0.63	30.6	< 0.50	0.098	22.8	0.097	0.66	0.881	41.1	72.4
SS16-01-06	SS16-01-06	2016 10 18	0.3	***8.51***	7,530	0.41	5.85	150	< 0.40	0.264	21.5	8.75	12.7	17,200	8.01	9.6	408	< 0.050	0.52	22.9	< 0.50	0.065	34.3	0.085	0.39	0.647	29.0	51.5
SS16-02-03	SS16-02-03	2016 10 16	0.3	***8.50***	7,360	0.49	5.90	146	< 0.40	0.220	22.5	7.90	15.6	17,900	9.45	10.5	313	< 0.050	0.65	24.4	< 0.50	0.077	48.2	0.095	0.36	0.609	29.0	50.3
SS16-02-04	SS16-02-04	2016 10 16	0.3	***8.85***	5,450	0.45	4.74	84.0	< 0.40	0.218	17.9	7.91	13.4	15,800	5.35	10.0	301	< 0.050	0.38	24.0	< 0.50	0.077	65.4	0.063	0.29	0.595	22.1	42.2
TP16-01	TP16-01	2016 10 18	0.0 - 3.0	***8.70***	4,750	0.45	5.11	96.0	< 0.40	0.233	17.4	6.07	11.9	12,900	6.58	7.9	252	< 0.050	0.55	17.4	< 0.50	0.061	55.5	0.072	0.23	0.454	20.3	42.5
TP16-02	TP16-02	2016 10 18	0.0 - 3.0	***8.75***	7,950	0.55	7.50	137	< 0.40	0.403	23.4	9.79	21.8	20,300	9.18	13.2	396	< 0.050	0.62	30.3	< 0.50	0.125	55.3	0.124	0.41	0.643	29.5	58.0
TP16-03	TP16-03	2016 10 18	0.0 - 3.0	***8.55***	5,200	0.49	5.64	130	< 0.40	0.333	18.6	6.68	13.6	13,300	7.31	7.5	252	< 0.050	0.51	20.9	< 0.50	0.086	40.5	0.072	0.28	0.584	26.0	46.1
TP16-04	TP16-04	2016 10 18	0.0 - 3.0	***8.97***	4,610	0.35	4.72	71.9	< 0.40	0.209	14.5	6.25	10.5	13,700	4.67	9.3	251	< 0.050	0.37	19.2	< 0.50	< 0.050	72.5	0.055	0.26	0.501	17.3	37.8
Backfill	BF16-01	2016 11 15	-	7.09	-	0.51	6.0	170	0.69	0.14	29	8.5	14	-	7.3	-	-	< 0.050	0.75	26	< 0.50	< 0.20	-	0.12	< 1.0	0.62	37	42
	BF16-02	2016 11 15	-	7.93	-	< 0.50	5.2	140	0.51	0.092	19	6.7	9.1	-	6.5	-	-	< 0.050	0.62	20	< 0.50	< 0.20	-	< 0.10	< 1.0	0.47	24	35
	BF16-03	2016 11 15	-	7.97	-	< 0.50	6.3	190	0.47	0.33	22	7.2	14	-	9.9	-	-	< 0.050	0.80	23	< 0.50	< 0.20	-	< 0.10	< 1.0	0.60	29	46
	BF16-04	2016 11 15	-	***8.68***	-	< 0.50	6.6	150	< 0.40	0.19	16	6.2	12	-	5.6	-	-	< 0.050	0.57	21	< 0.50	< 0.20	-	< 0.10	< 1.0	0.57	18	42
	BF16-05	2016 11 15	-	***8.22***	-	< 0.50	5.1	140	0.44	0.17	20	6.5	14	-	7.0	-	-	0.063	0.57	22	< 0.50	< 0.20	-	< 0.10	< 1.0	0.53	25	46
	BF16-11	2016 12 04	-	***8.20***	-	0.67	7.0	180	< 0.40	0.71	***67***	7.5	19	-	10	-	0.057	-	1.6	***46***	< 0.50	< 0.20	-	0.11	< 1.0	0.55	21	53
	BF16-12	2016 12 04	-	***8.13***	-	0.88	11	360	< 0.40	0.41	***85***	9.2	26	-	18	-	0.094	-	2.3	***56***	< 0.50	< 0.20	-	0.14	< 1.0	0.73	27	63
	BF16-13	2016 12 04	-	***8.24***	-	0.54	5.7	180	< 0.40	0.30	13	6.2	17	-	8.8	-	0.058	-	0.70	19	< 0.50	< 0.20	-	0.10	< 1.0	0.55	19	49
	BF16-14	2016 12 04	-	***8.19***	-	0.99	10	350	0.41	0.41	***91***	10	30	-	22	-	0.077	-	2.4	***60***	< 0.50	< 0.20	-	0.17	< 1.0	0.75	28	70
	BF16-15	2016 12 04	-	***8.02***	-	0.98	12	310	0.46	0.37	***77***	11	32	-	19	-	0.099	-	2.3	***58***	< 0.50	< 0.20	-	0.18	< 1.0	0.73	28	71
	BF17-23	2017 11 18	-	***8.77***	5,350	0.5	3.3	191	0.2	0.28	13	5.6	11.7	11,800	6.2	6.1	201	0.04	0.5	17.7	0.5	< 0.5	72	< 0.1	0.2	0.4	18	41
	BF17-24	2017 11 18	-	***8.87***	5,490	0.6	4.5	159	0.3	0.31	12	6.1	13.7	12,200	8.6	6.4	218	0.03	0.5	18.2	0.6	< 0.5	66	< 0.1	0.3	0.5	18	49
	BF17-25	2017 11 18	-	***8.87***	4,380	0.4	3.1	130	0.2	0.26	13	5.4	9.6	10,200	4.5	5.4	192	0.03	0.5	17.5	0.5	< 0.5	75	< 0.1	< 0.2	0.5	17	38
	BF17-26	2017 11 18	-	***8.84***	7,920	0.8	7.8	207	0.4	0.44	16	7.0	18.8	18,200	8.4	9.4	306	0.06	0.7	21.7	0.6	< 0.5	118	0.1	0.3	1.1	24	58
	BF17-27	2017 11 18	-	***8.66***	8,640	0.7	5.1	221	0.4	0.34	18	7.5	18.2	18,700	12.4	9.8	291	0.04	0.8	23.3	0.7	< 0.5	71	0.1	0.3	0.6	26	56
	BF17-28	2017 11 18	-	***8.82***	4,620	0.4	3.5	135	0.2	0.21	12	4.9	11.2	9,990	5.7	5.1	185	0.03	0.5	14.9	0.6	< 0.5	64	< 0.1	< 0.2	0.4	18	35
	BF17-29	2017 11 18	-	***8.70***	7,060	0.6	5.1	170	0.3	0.29	14	6.5	14.5	14,500	8.8	7.4	243	0.03	0.7	19.7	0.5	< 0.5	63	< 0.1	0.3	0.5	21	46
	BF17-30	2017 11 18	-	***8.78***	5,720	0.5	5.8	163	0.2	0.25	16	6.0	11.0	12,800	5.5	7.7	218	0.02	0.4	20.7	0.5	< 0.5	77	< 0.1	0.2	0.5	20	38
	BF17-31	2017 11 18	-	***8.81***	6,710	0.7	4.6	185	0.3	0.34	18	7.2	16.4	16,200	7.3	9.2	248	0.03	0.6	22.9	0.5	< 0.5	89	< 0.1	0.3	1.4	22	51
	BF17-32	2017 11 18	-	***8.82***	5,650	0.5	4.3	160	0.2	0.25	14	5.2	10.7	12,700	5.3	6.1	203	0.03	0.5	18.6	0.3	< 0.5	68	< 0.1	0.2	0.4	18	36
	BF17-33	Duplicate	-	***8.78***	5,180	0.5	4.3	136	0.2	0.26	15	5.9	10.4	11,300	5.4	7.1	197	0.03	0.5	20.1	0.3	< 0.5	67	< 0.1	0.2	0.6	19	37
	QA/QC RPD%			0	9	0	0	16	*	4	7	13	3	12	2	15	3	*	*	8	*	*	1	*	*	*	5	3
Federal Guideline																												
CCME CEQG Residential Coarse-Grained Surface (RL Surface)[a]				6.0 - 8.0	n/a	20	12	500	4	10	64	50	63	n/a	140	n/a	n/a	6.6	10	45	1	20	n/a	1	50	23	130	200
BC Standard																												
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[b]				n/a	40,000	20	10	350	30 - 85[c]	3 - 20[c]	60	25	150[c]	35,000	120[c]	30	2,000	10	15	70 - 150[c]	1	20	9,500	9	50	30	100	150 - 450[c]

Associated Maxxam file(s): B692861, B6A2908, B6A9824.
Associated AGAT file(s): 17N286609.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD	Concentration greater than CCME CEQG Residential Coarse-Grained Surface (RL Surface) Guideline
SHADOW	Concentration greater than CSR Low Density Residential Land Use (RLLD) standard

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[c] Standard is pH dependent.

TABLE 18: Summary of Analytical Results for Hydrocarbons in Groundwater

			Monocyclic Aromatic Hydrocarbons					Gross Parameters					Petroleum Hydrocarbon Fractions				MTBE	MBAS
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	Styrene µg/L	VH (C6-C10) µg/L	VPH (C6-C10) µg/L	EPH (C10-C19) µg/L	LEPH (C10-C19)[d] µg/L	EPH (C19-C32) µg/L	F1 (C6-C10) µg/L	F2 (>C10-C16) µg/L	F3 (>C16-C34) µg/L	F4 (>C34-C50) µg/L	MTBE µg/L	MBAS[e] µg/L
BH113M	BH113M (2006)	2006 08 20	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	BH113M (2007)	2007 08 22	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	GR71	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	BH113M (2008)	2008 10 06	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	GR81	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	BH113M (2009)	2009 10 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	BH113M (2010)	2010 09 08	< 0.500	< 0.500	< 1	< 0.710	< 0.500	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.500	-
BH118M	BH118M (2009)	2009 10 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	350	-	-	-	-	-	-
	GR82	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	380	-	-	-	-	-	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
	BH118M (2010)	2010 09 08	< 0.500	< 0.500	< 1	< 0.710	< 0.500	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.500	-
	GR1	Duplicate	< 0.500	< 0.500	< 1	< 0.710	< 0.500	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.500	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	BH118M (2011)	2011 09 16	< 0.5	< 0.5	< 0.5	< 0.75	< 0.5	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
BH119M	BH119M (2009)	2009 10 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	BH119M (2010)	2010 09 08	< 0.500	< 0.500	< 1	< 0.710	< 0.500	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.500	-
BH120M	BH120M (2009)	2009 10 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	BH120M (2010)	2010 09 08	< 0.500	< 0.500	< 1	< 0.710	< 0.500	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.500	-
BH12-02	MW12-02-AD05	2012 10 24	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	< 100	< 100	< 100	-	-	-	-	< 1	-
	MW12-A-AD05	Duplicate	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	< 100	< 100	< 100	-	-	-	-	< 1	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	MW12-02-AD05	2013 03 14	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	< 100	< 100	< 100	-	-	-	-	< 1	-
	MW12-A-AD05	Duplicate	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	< 100	< 100	< 100	-	-	-	-	< 1	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	MW12-02-AD05	2013 07 26	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
BH13-03	MW13-03-AD05	2013 03 14	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 100	< 100	< 100	< 100	< 100	-	-	-	-	-	-
	MW13-C-AD05	Duplicate	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 100	< 100	< 100	< 100	< 100	-	-	-	-	-	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
	MW13-03-AD05	2013 07 26	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	MW13-C-AD05	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	zMW13-03-AD05	2013 10 01	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
BH13-04	zMW13-04-AD05	2013 10 02	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH13-04	2013 10 29	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH13-04-GW2-AD05	2014 08 18	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW13-04-141030	2014 10 30	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	BH13-04-6W03-AD05	2015 10 01	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	-	-	-	-	< 4.0	-
BH13-05	BH13-05	2013 10 29	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	590	**590**	< 400	-	-	-	-	< 8	-
	DUP 1	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	690	**680**	< 400	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	16	14	*	-	-	-	-	*	-
	BH13-05-GW2-AD05	2014 08 15	-	-	-	-	-	-	-	200	< 400	< 400	-	-	-	-	-	-
	BH14-B-GW2-AD05	Duplicate	-	-	-	-	-	-	-	200	< 400	< 400	-	-	-	-	-	-
	QA/QC RPD%		-	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
	MW13-05-141030	2014 10 30	-	-	-	-	-	-	-	360	360	< 200	-	-	-	-	-	-
	BH13-05-GW03-AD05	2015 09 28	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	910	**910**	< 200	-	-	-	-	< 4.0	-
	DUP 1	Duplicate	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	890	**890**	< 200	-	-	-	-	< 4.0	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
BH13-06	BH13-06	2013 10 29	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	**8,200**	**8,200**	560	-	-	-	-	< 8	-
	BH13-06-GW2-AD05	2014 08 13	-	-	-	-	-	-	-	340	340	< 400	-	-	-	-	-	-
	MW13-06-141031	2014 10 31	-	-	-	-	-	-	-	460	460	< 200	-	-	-	-	-	-
	BH13-06-GW03-AD05	2015 09 28	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	340	340	< 200	-	-	-	-	< 4.0	-
	MW13-06-161009	2016 10 09	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	-	-	-	< 300	630	< 200	< 200	< 4.0	-
	MW13-06-161011-1	2016 10 11	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	-	-	-	< 300	830	< 200	< 200	< 4.0	-
	MW13-06-161011-2	2016 10 11	< 0.40	< 0.40	< 0.40	0.47	< 0.40	< 300	< 300	-	-	-	< 300	710	< 200	< 200	< 4.0	-
	MW13-06-161011-3	2016 10 11	< 0.40	< 0.40	< 0.40	2.2	< 0.40	< 300	< 300	-	-	-	< 300	670	< 200	< 200	< 4.0	< 50
	MW13-06-161011-4	2016 10 11	< 0.40	< 0.40	< 0.40	2.1	< 0.40	< 300	< 300	-	-	-	< 300	700	< 200	< 200	< 4.0	-
	MW13-06-161011-5	2016 10 11	< 0.40	< 0.40	< 0.40	0.53	< 0.40	< 300	< 300	-	-	-	< 300	860	< 200	< 200	< 4.0	-
	MW13-06-161121	2016 11 21	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	-	-	-	< 300	730	250	< 200	< 4.0	-
	MW13-06-170612	2017 06 12/13	< 0.5	< 0.5	< 0.5	< 1	-	< 100	< 100	**15,900**	**15,900**	1,400	< 100	***11,400***	5,460	210	-	-
BH13-07	zMW13-07-AD05	2013 10 01	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH13-07	2013 10 29	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	200	-	-	-	-	< 8	-
BH13-08	BH13-08	2013 12 09	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	270	-	-	-	-	< 8	-
	BH13-08-100	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	BH13-08-GW01-AD05	2014 03 11	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH13-08-GW2-AD05	2014 08 17	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW13-08-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-09	BH14-09-GW01-AD05	2014 03 12	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-09-GW2-AD05	2014 08 18	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW14-09-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	230	-	-	-	-	-	-
	BH14-09-6W03-AD05	2015 10 01	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	290	-	-	-	-	< 4.0	-
BH14-10	BH14-10-GW01-AD05	2014 03 11	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	3,400	**3,400**	270	-	-	-	-	< 8	-
	BH14-10-GW2-AD05	2014 08 13	-	-	-	-	-	-	-	250	250	< 400	-	-	-	-	-	-
	MW14-10-141030	2014 10 30	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	BH14-10-GW03-AD05	2015 09 28	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	920	**920**	< 200	-	-	-	-	< 4.0	-
	PUMPTEST	2014 08 14	-	-	-	-	-	-	-	280	280	< 200	-	-	-	-	-	-
	MW14-10-170618/20	2017 06 18/20	< 0.5	< 0.5	< 0.5	< 1	-	< 100	< 100	170	170	< 100	< 100	110	< 100	< 100	-	-
BH14-11	BH14-11-GW01-AD05	2014 03 10	< 0.8	< 0.8	< 0.8	< 0.8	< 1	740	740	**56,000**	**56,000**	6,600	-	-	-	-	< 8	-
	BH14-11-GW2-AD05	2014 08 14	-	-	-	-	-	-	-	220	220	< 400	-	-	-	-	-	-
	MW14-11-141031	2014 10 31	-	-	-	-	-	-	-	1,400	**1,300**	210	-	-	-	-	-	-
	BH14-11-GW03-AD05	2015 09 28	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	4,400	**4,400**	650	-	-	-	-	< 4.0	-
	MW14-11-170618/19	2017 06 18/19	< 0.5	< 0.5	< 0.5	< 1	-	1,010	1,010	860	**860**	150	***930***	510	530	< 100	-	-
BH14-12	BH14-12-GW01-AD05	2014 03 09	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-12-GW2-AD05	2014 08 17	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW14-12-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-13	BH14-13-GW01-AD05	2014 03 10	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-13-GW2-AD05	2014 08 18	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW14-13-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-14	BH14-14-GW01-AD05	2014 03 09	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-14-GW2-AD05	2014 08 19	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW14-14-141031	2014 10 31	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
Federal Guideline																		
Canadian Drinking Water Quality Guidelines (CDWQ(			5	1.6	24	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a
FGQG Tier 2 Residential Land Use (RL)[a]			140	16,000	83	3,900	72	n/a	n/a	n/a	n/a	n/a	810	1,300	n/a	n/a	340	n/a
BC Standard																		
CSR Drinking Water (DW)			5	140	60	90	800	15,000[c]	n/a	5,000[c]	n/a	n/a	n/a	n/a	n/a	n/a	95	n/a
CSR Aquatic Life (AW)[b]			400	2,000	5	300	720	15,000[c]	1,500	5,000[c]	500	n/a	n/a	n/a	n/a	n/a	34,000	n/a

Associated Maxxam file(s): B690897, B696711, B6A5716. Associated AGAT file(s): 17N229446, 17Y227151

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringer

[b] Standard to protect freshwater aquatic life.

[c] Applicable at all sites irrespective of water use.

[d] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.

[e] Methylene Blue Active Surfactants.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard
YELLOW	VPH or LEPH concentration greater than FGQG RL F1 or F2 guideline (potential FGQG exceedance), only applied where no F1 or F2 concentration is available.

TABLE 18 (Cont'd): Summary of Analytical Results for Hydrocarbons in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Monocyclic Aromatic Hydrocarbons					Gross Parameters					Petroleum Hydrocarbon Fractions				MTBE	MBAS
			Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	Styrene µg/L	VH (C6-C10) µg/L	VPH (C6-C10) µg/L	EPH (C10-C19) µg/L	LEPH (C10-C19)[d] µg/L	EPH (C19-C32) µg/L	F1 (C6-C10) µg/L	F2 (>C10-C16) µg/L	F3 (>C16-C34) µg/L	F4 (>C34-C50) µg/L	MTBE µg/L	MBAS[e] µg/L
BH14-15	BH14-15-GW01-AD05	2014 03 10	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-15A-GW01-AD05	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	BH14-15-GW2-AD05	2014 08 14	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	260	260	< 400	-	-	-	-	< 8	-
	BH14-A-GW2-AD05	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	290	290	< 400	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	MW14-15-141030	2014 10 30	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	MW14-A-141030	Duplicate	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	QA/QC RPD%		-	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
BH14-16	BH14-16-GW01-AD05	2014 03 09	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-16-GW2-AD05	2014 08 19	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW14-16-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-18	BH14-18-GW01-AD05	2014 03 13	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	830	**830**	< 400	-	-	-	-	< 8	-
	BH14-18-GW2-AD05	2014 08 17	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	280	280	< 400	-	-	-	-	< 8	-
	MW14-18-141030	2014 10 30	-	-	-	-	-	-	-	720	**720**	< 200	-	-	-	-	-	-
	BH14-18-GW03-AD05	2015 09 28	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	1,500	**1,500**	360	-	-	-	-	< 4.0	-
BH14-19	BH14-19-GW01-AD05	2014 03 10	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	MW14-19-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-20	BH14-20-GW01-AD05	2014 03 10	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	370	370	< 400	-	-	-	-	< 8	-
	BH14-20-GW2-AD05	2014 08 14	< 0.8	< 0.8	< 0.8	< 0.8	-	< 600	< 600	300	300	< 400	-	-	-	-	-	-
	MW14-20-141101	2014 11 01	-	-	-	-	-	-	-	520	**520**	< 200	-	-	-	-	-	-
	BH14-20-6W03-AD05	2015 10 01	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	520	**520**	< 200	-	-	-	-	< 4.0	-
BH14-22	BH14-22-GW01-AD05	2014 03 11	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-22A-GW01-AD05	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	BH14-22-GW2-AD05	2014 08 15	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	MW14-22-141031	2014 10 31	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-23	BH14-23-GW01-AD05	2014 03 11	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-23-GW2-AD05	2014 08 15	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	MW14-23-141030	2014 10 30	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	MW14-B-141030	Duplicate	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	QA/QC RPD%		-	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
BH14-24	BH14-24-GW01-AD05	2014 03 11	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-24-GW2-AD05	2014 08 16	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-C-GW2-AD05	Duplicate	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	-	-	-	-	-	-	-	< 8	-
	QA/QC RPD%		*	*	*	*	*	*	*	-	-	-	-	-	-	-	*	-
	MW14-24-141031	2014 10 31	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	MW14-C-141031	Duplicate	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	QA/QC RPD%		-	-	-	-	-	-	-	*	*	*	-	-	-	-	-	-
BH14-25	BH14-25-GW01-AD05	2014 03 11	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-25-GW2-AD05	2014 08 16	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
BH14-26	BH14-26-GW01-AD05	2014 03 13	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-26-GW2-AD05	2014 08 17	-	-	-	-	-	-	-	< 400	< 400	< 400	-	-	-	-	-	-
	MW14-26-141102	2014 11 02	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
	BH14-26-6W03-AD05	2015 10 01	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	-	-	-	-	< 4.0	-
BH14-27	BH14-27-GW01-AD05	2014 03 12	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-27-GW2-AD05	2014 08 15	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	MW14-27-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
BH14-28	BH14-28-GW01-AD05	2014 03 12	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	BH14-28-GW2-AD05	2014 08 16	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
	MW14-28-141101	2014 11 01	-	-	-	-	-	-	-	< 200	< 200	< 200	-	-	-	-	-	-
MW16-12D	MW16-12-160315	2016 03 15	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	200	200	< 200	< 300	250	< 200	< 200	< 4.0	< 200
	MW16-A-160315	Duplicate	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	200	200	< 200	< 300	260	< 200	< 200	< 4.0	< 200
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
IW16-38	MW16-38-161011	2016 10 11	0.40	**2.1**	1.9	**50**	< 0.40	1,500	1,400	-	-	-	***1,500***	***2,300***	600	< 200	< 4.0	-
	MW16-38-161027/28	2016 10 27/28	< 0.40	0.96	1.1	**27**	< 0.40	670	640	-	-	-	670	***3,200***	1,500	< 200	< 4.0	
Tap	Tap (2006)	2006 08 20	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	Tap (2007)	2007 08 22	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	GR70	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	Tap (2008)	2008 10 06	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	2458-0812-TW1	2012 08 08	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	-	< 100	-	-	-	-	-	< 1	-
Tap FS	Tap FS	2011 09 16	< 0.5	< 0.5	< 0.5	< 0.75	< 0.5	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
Tap4	TAP 4-AD05	2013 07 26	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
Well	Well (2004)	2004 12 08	-	-	-	-	-	-	-	< 250	< 250	< 250	-	-	-	-	-	-
	Well (2005)	2005 11 06	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	GR23	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
	Well (2006)	2006 08 20	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	GR60	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
	Well (2008)	2008 10 06	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	Well (2009)	2009 10 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	GR83	Duplicate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 100	< 100	< 250	< 250	< 250	-	-	-	-	-	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
	WELL (2010)	2010 09 08	< 0.500	< 0.500	< 1	2.71	< 0.500	< 100	< 100	320	320	< 250	-	-	-	-	< 0.500	-
	Well (2011)	2011 09 16	< 0.5	< 0.5	< 0.5	< 0.75	< 0.5	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	GR85	Duplicate	< 0.5	< 0.5	< 0.5	< 0.75	< 0.5	< 100	< 100	< 250	< 250	< 250	-	-	-	-	< 0.5	-
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-
	2458-0812-DW1	2012 08 08	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	-	< 100	-	-	-	-	-	< 1	-
	2458-0812-DW101	Duplicate	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 100	< 100	-	< 100	-	-	-	-	-	< 1	-
	QA/QC RPD%		*	*	*	*	*	*	*	-	*	-	-	-	-	-	*	-
	WELL-AD05	2013 07 26	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 600	< 600	< 400	< 400	< 400	-	-	-	-	< 8	-
Federal Guideline																		
Canadian Drinking Water Quality Guidelines (CDWQG			5	1.6	24	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15	n/a
FGQG Tier 2 Residential Land Use (RL)[a]			140	16,000	83	3,900	72	n/a	n/a	n/a	n/a	n/a	810	1,300	n/a	n/a	340	n/a
BC Standard																		
CSR Drinking Water (DW)			5	140	60	90	800	15,000[c]	n/a	5,000[c]	n/a	n/a	n/a	n/a	n/a	n/a	95	n/a
CSR Aquatic Life (AW)[b]			400	2,000	5	300	720	15,000[c]	1,500	5,000[c]	500	n/a	n/a	n/a	n/a	n/a	34,000	n/a

Associated Maxxam file(s): B690897, B696711, B6A5716. Associated AGAT file(s): 17N229446, 17Y227151

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringer

[b] Standard to protect freshwater aquatic life.

[c] Applicable at all sites irrespective of water use.

[d] Where available, values corrected for the presence of individual PAH are shown. Otherwise, uncorrected values are shown.

[e] Methylene Blue Active Surfactants.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard
YELLOW	VPH or LEPH concentration greater than FGQG RL F1 or F2 guideline (potential FGQG exceedance), only applied where no F1 or F2 concentration is available.

TABLE 19: Summary of Analytical Results for PAHs in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Polycyclic Aromatic Hydrocarbons																					
			Naphthalene µg/L	1-Methyl naphthalene µg/L	2-Methyl naphthalene µg/L	Acenaphthylene µg/L	Acenaphthene µg/L	Fluorene µg/L	Phenanthrene µg/L	Anthracene µg/L	Acridine µg/L	Fluoranthene µg/L	Pyrene µg/L	Benzo(a) anthracene µg/L	Chrysene µg/L	Benzo(b) fluoranthene µg/L	Benzo(j) fluoranthene µg/L	Benzo(b+j) fluoranthene µg/L	Benzo(k) fluoranthene µg/L	Benzo(a) pyrene µg/L	Indeno(1,2,3-cd) pyrene µg/L	Dibenz(a,h) anthracene µg/L	Benzo(g,h,i) perylene µg/L	Quinoline µg/L
BH113M	BH113M (2006)	2006 08 20	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	BH113M (2007)	2007 08 22	< 0.3	-	-	< 0.1	-	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	-	-	-	-	< 0.01	-	-	-	< 0.5[a]
	GR71	Duplicate	< 0.3	-	-	< 0.1	-	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	-	-	-	-	< 0.01	-	-	-	< 0.5[a]
	QA/QC RPD%		*	-	-	*	-	*	*	*	*	*	*	*	*	-	-	-	-	*	-	-	-	*
	BH113M (2008)	2008 10 06	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	GR81	Duplicate	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	BH113M (2009)	2009 10 19	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	BH113M (2010)	2010 09 08	< 0.0500	-	-	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500[a]	< 0.0500	< 0.0500[a]	< 0.0500[a]	< 0.0500[a]	< 0.0500	< 0.0500	-	-	< 0.0500	< 0.0100	< 0.0500	< 0.0500[a]	< 0.0500	< 0.0500
BH118M	BH118M (2009)	2009 10 19	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	GR82	Duplicate	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	BH118M (2010)	2010 09 08	< 0.0500	-	-	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0100	< 0.0500	< 0.0400	< 0.0200	< 0.0100	< 0.0500	< 0.0500	-	-	< 0.0500	< 0.0100	< 0.0500	< 0.0500[a]	< 0.0500	< 0.0500
	GR1	Duplicate	< 0.0500	-	-	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0100	< 0.0500	< 0.0400	< 0.0200	< 0.0100	< 0.0500	< 0.0500	-	-	< 0.0500	< 0.0100	< 0.0500	< 0.0500[a]	< 0.0500	< 0.0500
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	BH118M (2011)	2011 09 16	< 0.02	-	-	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BH119M	BH119M (2009)	2009 10 19	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	BH119M (2010)	2010 09 08	< 0.0500	-	-	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0110	< 0.0500	< 0.0400	< 0.0200	< 0.0100	< 0.0500	< 0.0500	-	-	< 0.0500	< 0.0100	< 0.0500	< 0.0500[a]	< 0.0500	< 0.0500
BH120M	BH120M (2009)	2009 10 19	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	BH120M (2010)	2010 09 08	< 0.0500	-	-	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0100	< 0.0500	< 0.0400	< 0.0200	< 0.0100	< 0.0500	< 0.0500	-	-	< 0.0500	< 0.0100	< 0.0500	< 0.0500[a]	< 0.0500	< 0.0500
BH12-02	MW12-02-AD05	2012 10 24	< 0.05	-	-	< 0.05	< 0.05	< 0.05	0.1	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
	MW12-A-AD05	Duplicate	< 0.05	-	-	< 0.05	< 0.05	< 0.05	0.09	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	MW12-02-AD05	2013 03 14	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
	MW12-A-AD05	2013 03 14	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
	MW12-02-AD05	2013 07 26	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
BH13-03	MW13-03-AD05	2013 03 14	< 0.01	-	-	-	< 0.01	< 0.01	0.02	< 0.01	< 0.1[a]	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	-	< 0.01	-	-	-	< 0.1[a]
	MW13-C-AD05	Duplicate	< 0.01	-	-	-	< 0.01	< 0.01	0.02	< 0.01	< 0.1[a]	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	-	< 0.01	-	-	-	< 0.1[a]
	QA/QC RPD%		*	-	-	-	*	*	*	*	*	*	*	*	*	-	-	-	-	*	-	-	-	*
	MW13-03-AD05	2013 07 26	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	MW13-C-AD05	Duplicate	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	QA/QC RPD%		*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	zMW13-03-AD05	2013 10 01	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
BH13-04	zMW13-04-AD05	2013 10 02	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	BH13-04	2013 10 29	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	BH13-04-GW2-AD05	2014 08 18	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW13-04-141030	2014 10 30	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	BH13-04-6W03-AD05	2015 10 01	< 0.10	-	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.24[a]
BH13-05	BH13-05	2013 10 29	< 1.4[a]	-	1.9	< 0.12	0.94	2.3	***2***	< 0.14[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	DUP 1	Duplicate	< 1.6[a]	-	2.2	< 0.16	1.1	2.6	***2.3***	< 0.12[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	QA/QC RPD%		*	-	15	*	16	12	14	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	BH13-05-GW2-AD05	2014 08 15	0.19	-	< 0.2	< 0.1	0.12	0.65	***0.65***	< 0.088[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-B-GW2-AD05	Duplicate	< 0.48	-	< 0.2	< 0.44	< 0.2	0.55	***0.65***	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	QA/QC RPD%		*	-	*	*	*	17	0	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	MW13-05-141030	2014 10 30	< 0.3	-	< 0.1	< 0.3	0.18	0.83	***1.1***	< 0.06[a]	< 0.05	< 0.02	< 0.02	0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 4[a]
	BH13-05-GW03-AD05	2015 09 28	< 0.16	-	< 0.10	< 0.21	< 0.079	< 0.24	***0.43***	< 0.054[a]	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.70[a]
	DUP 1	Duplicate	< 0.14	-	< 0.10	< 0.050	< 0.050	< 0.23	***0.43***	< 0.060[a]	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.47[a]
	QA/QC RPD%		*	-	*	*	*	*	0	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
Federal Guideline																								
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			1.1	180	180	46	5.8	3	0.4	0.012	0.05	0.04	0.025	0.018	1.4	0.48	0.48	0.48	0.48	0.015	0.21	0.26	0.17	3.4
BC Standard																								
CSR Drinking Water (DW)			80	5.5	15	n/a	250	150	n/a	1,000	n/a	150	100	0.07	7	0.07	0.07	0.07	n/a	0.01	n/a	0.01	n/a	0.05
CSR Aquatic Life (AW)[c]			10	n/a	n/a	n/a	60	120	3	1	0.5	2	0.2	1	1	n/a	n/a	n/a	n/a	0.1	n/a	n/a	n/a	34

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17Y227151.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 19 (Cont'd): Summary of Analytical Results for PAHs in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Polycyclic Aromatic Hydrocarbons																					
			Naphthalene µg/L	1-Methyl naphthalene µg/L	2-Methyl naphthalene µg/L	Acenaphthylene µg/L	Acenaphthene µg/L	Fluorene µg/L	Phenanthrene µg/L	Anthracene µg/L	Acridine µg/L	Fluoranthene µg/L	Pyrene µg/L	Benzo(a) anthracene µg/L	Chrysene µg/L	Benzo(b) fluoranthene µg/L	Benzo(j) fluoranthene µg/L	Benzo(b+j) fluoranthene µg/L	Benzo(k) fluoranthene µg/L	Benzo(a) pyrene µg/L	Indeno(1,2,3-cd) pyrene µg/L	Dibenz(a,h) anthracene µg/L	Benzo(g,h,i) perylene µg/L	Quinoline µg/L
BH13-06	BH13-06	2013 10 29	< 4.6[a]	-	< 2	< 0.86	4.8	< 19[a]	***14***	< 1.6[a]	***0.63***	***0.13***	***0.25***	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	BH13-06-GW2-AD05	2014 08 13	< 1.2[a]	-	< 0.2	< 0.56	< 0.1	< 3	***1.6***	< 0.16[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW13-06-141031	2014 10 31	< 0.4	-	< 0.1	< 0.2	0.46	0.92	***1***	< 0.05[a]	< 0.05	< 0.02	< 0.02	0.011	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 4.5[a]
	BH13-06-GW03-AD05	2015 09 28	< 0.36	-	< 0.10	< 0.16	< 0.67	< 1.1	***0.77***	< 0.043[a]	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.81[a]
	MW13-06-170613	2017 06 13	< 0.5	< 0.5	< 0.5	< 0.2	< 0.2	1.4	***1.7***	< 0.1[a]	< 0.5[a]	< 0.02	***0.20***	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.07**	< 0.01	< 1[a]
BH13-07	zMW13-07-AD05	2013 10 01	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	BH13-07	2013 10 29	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
BH13-08	BH13-08	2013 12 09	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	BH13-08-100	Duplicate	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
	QA/QC RPD%		*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	BH13-08-GW01-AD05	2014 03 11	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH13-08-GW2-AD05	2014 08 17	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW13-08-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-09	BH14-09-GW01-AD05	2014 03 12	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-09-GW2-AD05	2014 08 18	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.162	0.052	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-09-141101	2014 11 01	< 0.2	-	< 0.1	< 0.05	< 0.07	< 0.3	0.11	< 0.02[a]	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 2[a]
	BH14-09-6W03-AD05	2015 10 01	< 0.10	-	< 0.10	< 0.050	< 0.050	< 0.070	< 0.050	< 0.010	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.24[a]
BH14-10	BH14-10-GW01-AD05	2014 03 11	< 0.8	-	< 0.6	< 0.3	2.1	***4***	***5.3***	< 0.28[a]	***0.32***	***0.042***	***0.14***	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 10[a]
	BH14-10-GW2-AD05	2014 08 13	< 0.9	-	< 0.2	< 0.4	< 1.18	< 2.6	***1.1***	< 0.14[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-10-141030	2014 10 30	< 0.2	-	< 0.1	< 0.06	< 0.2	0.42	0.3	< 0.02[a]	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 1.5[a]
	BH14-10-GW03-AD05	2015 09 28	< 0.60	-	< 0.10	< 0.40	< 0.80	< 1.9	***2.7***	< 0.14[a]	< 0.050	0.033	***0.081***	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 1.6[a]
	PUMPTEST	2014 08 14	< 0.55	-	< 0.10	< 0.17	< 0.66	1.4	***1.1***	< 0.050[a]	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.24[a]
	MW14-10-170620	2017 06 20	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.04	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01[a]	< 0.01	< 0.01	< 0.1[a]
BH14-11	BH14-11-GW01-AD05	2014 03 10	< 1.54[a]	-	< 2.2	< 1.38	< 11.8[a]	***10***	***14***	< 2.2[a]	< 3.8[a]	***0.26***	***0.53***	0.01	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 13[a]
	BH14-11-GW2-AD05	2014 08 14	0.31	-	< 0.2	< 0.1	< 1.08	0.94	***0.67***	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-11-141031	2014 10 31	< 0.41	-	< 0.1	< 0.05	< 0.54	1	***1.1***	< 0.072[a]	< 0.05	0.022	***0.031***	0.012	< 0.05	-	-	< 0.05	< 0.05	0.01	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	BH14-11-GW03-AD05	2015 09 28	< 0.49	-	< 0.10	< 0.42	< 0.71	< 1.2	***2.1***	< 0.19[a]	< 0.050	0.022	***0.052***	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 1.1[a]
	MW14-11-170619	2017 06 19	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.04	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01[a]	< 0.01	< 0.01	< 0.1[a]
BH14-12	BH14-12-GW01-AD05	2014 03 09	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-12-GW2-AD05	2014 08 17	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-12-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-13	BH14-13-GW01-AD05	2014 03 10	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-13-GW2-AD05	2014 08 18	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-13-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-14	BH14-14-GW01-AD05	2014 03 09	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-14-GW2-AD05	2014 08 19	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-14-141031	2014 10 31	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-15	BH14-15-GW01-AD05	2014 03 10	< 0.38	-	< 0.32	< 0.1	0.18	< 0.86	0.12	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1.4[a]
	BH14-15A-GW01-AD05	Duplicate	0.19	-	< 0.2	< 0.1	0.2	< 0.86	0.12	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 2.8[a]
	QA/QC RPD%		*	-	*	*	11	*	0	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	BH14-15-GW2-AD05	2014 08 14	< 1.6[a]	-	< 0.5	< 0.7	< 0.72	< 1.9	0.35	< 0.06[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-A-GW2-AD05	Duplicate	0.46	-	< 0.2	< 0.1	< 0.36	0.93	0.33	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	QA/QC RPD%		*	-	*	*	*	*	6	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	MW14-15-141030	2014 10 30	< 0.43	-	< 0.1	< 0.064	< 0.17	0.79	0.3	< 0.043[a]	< 0.05	***0.049***	0.022	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	MW14-A-141030	Duplicate	0.48	-	< 0.1	< 0.056	< 0.19	0.89	0.34	< 0.048[a]	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	QA/QC RPD%		*	-	*	*	*	12	13	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
BH14-16	BH14-16-GW01-AD05	2014 03 09	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-16-GW2-AD05	2014 08 19	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-16-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
Federal Guideline																								
Canadian Drinking Water Quality Guidelines (CDWQG			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			1.1	180	180	46	5.8	3	0.4	0.012	0.05	0.04	0.025	0.018	1.4	0.48	0.48	0.48	0.48	0.015	0.21	0.26	0.17	3.4
BC Standard																								
CSR Drinking Water (DW)			80	5.5	15	n/a	250	150	n/a	1,000	n/a	150	100	0.07	7	0.07	0.07	0.07	n/a	0.01	n/a	0.01	n/a	0.05
CSR Aquatic Life (AW)[c]			10	n/a	n/a	n/a	60	120	3	1	0.5	2	0.2	1	1	n/a	n/a	n/a	n/a	0.1	n/a	n/a	n/a	34

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17Y227151.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 19 (Cont'd): Summary of Analytical Results for PAHs in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Polycyclic Aromatic Hydrocarbons																					
			Naphthalene µg/L	1-Methyl naphthalene µg/L	2-Methyl naphthalene µg/L	Acenaphthylene µg/L	Acenaphthene µg/L	Fluorene µg/L	Phenanthrene µg/L	Anthracene µg/L	Acridine µg/L	Fluoranthene µg/L	Pyrene µg/L	Benzo(a) anthracene µg/L	Chrysene µg/L	Benzo(b) fluoranthene µg/L	Benzo(j) fluoranthene µg/L	Benzo(b+j) fluoranthene µg/L	Benzo(k) fluoranthene µg/L	Benzo(a) pyrene µg/L	Indeno(1,2,3-cd) pyrene µg/L	Dibenz(a,h) anthracene µg/L	Benzo(g,h,i) perylene µg/L	Quinoline µg/L
BH14-18	BH14-18-GW01-AD05	2014 03 13	< 0.3	-	0.62	< 0.4	0.18	< 1.6	***0.49***	< 0.16[a]	***0.064***	< 0.04	0.023	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 9[a]
	BH14-18-GW2-AD05	2014 08 17	0.43	-	1	0.36	< 0.46	0.76	***0.54***	< 0.094[a]	< 0.1[a]	< 0.04	0.022	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-18-141030	2014 10 30	0.45	-	2	< 0.14	< 0.18	0.86	***0.72***	< 0.1[a]	< 0.05	***0.046***	***0.054***	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	BH14-18-GW03-AD05	2015 09 28	< 0.59	-	1.4	< 0.64	< 0.30	< 1.0	***0.84***	< 0.13[a]	< 0.050	0.024	***0.06***	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 1.2[a]
BH14-19	BH14-19-GW01-AD05	2014 03 10	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-19-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-20	BH14-20-GW01-AD05	2014 03 10	< 0.4	-	1.7	< 0.1	0.14	< 1.5	***1***	< 0.06[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 5[a]
	BH14-20-GW2-AD05	2014 08 14	0.38	-	1.3	< 0.1	< 0.162	0.79	***1.3***	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-20-141101	2014 11 01	0.83	-	1.6	< 0.16	< 0.17	1.2	***1.7***	< 0.083[a]	< 0.05	< 0.02	0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	BH14-20-6W03-AD05	2015 10 01	< 0.45	-	2.2	< 0.34	< 0.11	< 0.71	***1.3***	< 0.029[a]	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.42[a]
BH14-22	BH14-22-GW01-AD05	2014 03 11	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	0.022	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-22A-GW01-AD05	Duplicate	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	QA/QC RPD%		*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
	BH14-22-GW2-AD05	2014 08 15	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-22-141031	2014 10 31	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-23	BH14-23-GW01-AD05	2014 03 11	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-23-GW2-AD05	2014 08 15	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-23-141030	2014 10 30	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	0.025	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	MW14-B-141030	Duplicate	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	0.023	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	QA/QC RPD%		*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
BH14-24	BH14-24-GW01-AD05	2014 03 11	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-24-GW2-AD05	2014 08 16	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-24-141031	2014 10 31	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	MW14-C-141031	Duplicate	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	QA/QC RPD%		*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
BH14-25	BH14-25-GW01-AD05	2014 03 11	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-25-GW2-AD05	2014 08 16	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
BH14-26	BH14-26-GW01-AD05	2014 03 13	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-26-GW2-AD05	2014 08 17	< 0.2	-	< 0.2	< 0.1	< 0.1	0.076	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-26-141102	2014 11 02	< 0.1	-	< 0.1	< 0.05	< 0.05	0.13	0.055	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
	BH14-26-6W03-AD05	2015 10 01	< 0.10	-	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.24[a]
BH14-27	BH14-27-GW01-AD05	2014 03 12	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-27-GW2-AD05	2014 08 15	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-27-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
BH14-28	BH14-28-GW01-AD05	2014 03 12	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	BH14-28-GW2-AD05	2014 08 16	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 0.48[a]
	MW14-28-141101	2014 11 01	< 0.1	-	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.05	< 0.02	< 0.02	< 0.01	< 0.05	-	-	< 0.05	< 0.05	< 0.009	< 0.05	< 0.05[a]	< 0.05	< 0.24[a]
MW16-12D	MW16-12-160315	2016 03 15	< 0.10	-	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.24[a]
	MW16-A-160315	Duplicate	< 0.10	-	< 0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.010	< 0.050	< 0.020	< 0.020	< 0.010	< 0.050	-	-	< 0.050	< 0.050	< 0.0090	< 0.050	< 0.050[a]	< 0.050	< 0.24[a]
	QA/QC RPD%		*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*	*
Tap	Tap (2006)	2006 08 20	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	Tap (2007)	2007 08 22	< 0.3	-	-	< 0.1	-	< 0.05	0.06	< 0.01	< 0.05	< 0.04	0.02	< 0.01	< 0.01	-	-	-	-	< 0.01	-	-	-	< 0.5[a]
	GR70	Duplicate	< 0.3	-	-	< 0.1	-	< 0.05	0.06	< 0.01	< 0.05	< 0.04	0.02	< 0.01	< 0.01	-	-	-	-	< 0.01	-	-	-	< 0.5[a]
	QA/QC RPD%		*	-	-	*	-	*	*	*	*	*	*	*	*	-	-	-	-	*	-	-	-	*
	Tap (2008)	2008 10 06	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	2458-0812-TW1	2012 08 08	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
Tap FS	Tap FS	2011 09 16	< 0.02	-	-	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01[a]	< 0.01	< 0.01
Tap4	TAP 4-AD05	2013 07 26	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
Federal Guideline																								
Canadian Drinking Water Quality Guidelines (CDWQG			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			1.1	180	180	46	5.8	3	0.4	0.012	0.05	0.04	0.025	0.018	1.4	0.48	0.48	0.48	0.48	0.015	0.21	0.26	0.17	3.4
BC Standard																								
CSR Drinking Water (DW)			80	5.5	15	n/a	250	150	n/a	1,000	n/a	150	100	0.07	7	0.07	0.07	0.07	n/a	0.01	n/a	0.01	n/a	0.05
CSR Aquatic Life (AW)[c]			10	n/a	n/a	n/a	60	120	3	1	0.5	2	0.2	1	1	n/a	n/a	n/a	n/a	0.1	n/a	n/a	n/a	34

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17Y227151.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE Concentration greater than CSR Drinking Water (DW) standard
SHADOW Concentration greater than CSR Aquatic Life (AW) standard

TABLE 19 (Cont'd): Summary of Analytical Results for PAHs in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Polycyclic Aromatic Hydrocarbons																					
			Naphthalene µg/L	1-Methyl naphthalene µg/L	2-Methyl naphthalene µg/L	Acenaphthylene µg/L	Acenaphthene µg/L	Fluorene µg/L	Phenanthrene µg/L	Anthracene µg/L	Acridine µg/L	Fluoranthene µg/L	Pyrene µg/L	Benzo(a) anthracene µg/L	Chrysene µg/L	Benzo(b) fluoranthene µg/L	Benzo(j) fluoranthene µg/L	Benzo(b+j) fluoranthene µg/L	Benzo(k) fluoranthene µg/L	Benzo(a) pyrene µg/L	Indeno(1,2,3-cd) pyrene µg/L	Dibenz(a,h) anthracene µg/L	Benzo(g,h,i) perylene µg/L	Quinoline µg/L
Well	Well (2004)	2004 12 08	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	Well (2005)	2005 11 06	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	GR23	Duplicate	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	Well (2006)	2006 08 20	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	GR60	Duplicate	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	Well (2008)	2008 10 06	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	Well (2009)	2009 10 19	< 0.3	-	-	< 0.1	< 0.1	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	GR83	Duplicate	< 0.3	-	-	< 0.1	-	< 0.05	< 0.05	< 0.01	< 0.05	< 0.04	< 0.02	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5[a]
	QA/QC RPD%		*	-	-	*	-	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	WELL (2010)	2010 09 08	< 0.0500	-	-	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0100	< 0.0500	< 0.0400	0.022	< 0.0100	< 0.0500	< 0.0500	-	-	< 0.0500	< 0.0100	< 0.0500	< 0.050[a]	< 0.0500	**2.59**
	Well (2011)	2011 09 16	< 0.04	-	-	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	GR85	Duplicate	< 0.04	-	-	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	2458-0812-DW1	2012 08 08	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
	2458-0812-DW101	Duplicate	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05[a]	< 0.05	< 0.05[a]	< 0.02	< 0.05[a]	< 0.05	< 0.05	-	-	< 0.05	< 0.01	< 0.05	< 0.05[a]	< 0.05	< 0.1[a]
	QA/QC RPD%		*	-	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	*	*	*
	WELL-AD05	2013 07 26	< 0.2	-	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02[a]	< 0.1[a]	< 0.04	< 0.04[a]	< 0.02[a]	< 0.1	-	-	< 0.1[a]	< 0.1	< 0.018[a]	< 0.1	< 0.1[a]	< 0.1	< 1[a]
Federal Guideline																								
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			1.1	180	180	46	5.8	3	0.4	0.012	0.05	0.04	0.025	0.018	1.4	0.48	0.48	0.48	0.48	0.015	0.21	0.26	0.17	3.4
BC Standard																								
CSR Drinking Water (DW)			80	5.5	15	n/a	250	150	n/a	1,000	n/a	150	100	0.07	7	0.07	0.07	0.07	n/a	0.01	n/a	0.01	n/a	0.05
CSR Aquatic Life (AW)[c]			10	n/a	n/a	n/a	60	120	3	1	0.5	2	0.2	1	1	n/a	n/a	n/a	n/a	0.1	n/a	n/a	n/a	34

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17Y227151.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 20: Summary of Analytical Results for Dissolved Inorganics in Groundwater

			Physical Parameters				Dissolved Inorganics														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	pH pH	Hardness mg/L	Conductivity µS/cm	Total Dissolved Solids mg/L	Ammonia Nitrogen µg/L	Nitrate Nitrogen µg/L	Nitrite Nitrogen µg/L	Nitrate+Nitrite Nitrogen µg/L	Chloride mg/L	Fluoride µg/L	Sulphate mg/L	Phosphate mg/L	Total Alkalinity mg/L	Alkalinity, Bicarbonate mg/L	Alkalinity, Carbonate mg/L	Alkalinity, Hydroxide mg/L	Alkalinity pH 4.5 mg/L	Salinity mg/L	Sodium Adsorption Ratio None
BH113M	BH113M (2006)	2006 08 20	-	349	-	-	-	-	-	-	9.9	-	64.4	-	-	-	-	-	-	-	-
	BH113M (2007)	2007 08 22	-	298	-	-	-	-	-	-	4.01	-	70	-	-	319	-	-	-	7	-
	GR71	Duplicate	-	318	-	-	-	-	-	-	4.21	-	71.9	-	-	325	-	-	-	0.007	-
	QA/QC RPD%		-	6	-	-	-	-	-	-	5	-	3	-	-	2	-	-	-	*	-
	BH113M (2008)	2008 10 06	-	-	-	-	-	-	-	-	2.27	-	80.9	-	-	-	-	-	-	-	-
	GR81	Duplicate	-	-	-	-	-	-	-	-	2.44	-	80.6	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	-	-	-	-	-	-	-	7	-	0	-	-	-	-	-	-	-	-
	BH113M (2009)	2009 10 19	-	336	567	-	-	-	-	-	1.65	-	80.1	-	-	-	-	-	-	**280,000**	-
	BH113M (2010)	2010 09 08	-	340	-	-	-	-	-	-	1.3	-	77.4	-	-	-	-	-	-	< 1,000	-
BH118M	BH118M (2009)	2009 10 19	-	395	1,290	-	-	-	-	-	***158***	-	68	-	-	-	-	-	-	**650,000**	-
	GR82	Duplicate	-	401	1,140	-	-	-	-	-	***160***	-	68.3	-	-	-	-	-	-	**570,000**	-
	QA/QC RPD%		-	2	12	-	-	-	-	-	1	-	0	-	-	-	-	-	-	*	-
	BH118M (2010)	2010 09 08	-	398	-	-	-	-	-	-	92.7	-	66.1	-	-	-	-	-	-	< 1,000	-
	GR1	Duplicate	-	396	-	-	-	-	-	-	92.6	-	65.7	-	-	-	-	-	-	< 1,000	-
	QA/QC RPD%		-	1	-	-	-	-	-	-	0	-	1	-	-	-	-	-	-	*	-
	BH118M (2011)	2011 09 16	-	454	-	-	-	-	-	-	***308***	-	68.8	-	-	-	-	-	-	< 1,000	-
	GR84	Duplicate	-	448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH119M	BH119M (2009)	2009 10 19	-	389	1,300	-	-	-	-	-	***191***	-	65.8	-	-	-	-	-	-	**650,000**	-
	BH119M (2010)	2010 09 08	-	405	-	-	-	-	-	-	***214***	-	64	-	-	-	-	-	-	< 1,000	-
BH120M	BH120M (2009)	2009 10 19	-	327	567	-	-	-	-	-	4.87	-	69.6	-	-	-	-	-	-	**280,000**	-
	BH120M (2010)	2010 09 08	-	358	-	-	-	-	-	-	5.2	-	66.6	-	-	-	-	-	-	< 1,000	-
BH12-02	MW12-02-AD05	2012 10 24	7.67	401	703	-	-	78	5	80	5.31	100	76.8	-	-	299	< 1	-	299	-	-
	MW12-A-AD05	Duplicate	7.64	404	706	-	-	82	< 5	80	5.52	***140***	77.8	-	-	299	< 1	-	299	-	-
	QA/QC RPD%		< 1	< 1	< 1	-	-	5	*	0	4	33	1	-	-	0	*	-	0	-	-
	MW12-02-AD05	2013 03 14	-	422	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-
	MW12-A-AD05	Duplicate	-	421	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	< 1	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
	MW12-02-AD05	2013 07 26	7.94	417	775	-	-	-	-	-	11	***150***	95.1	-	357	435	< 1	< 1	-	-	-
BH13-03	MW13-03-AD05	2013 03 14	-	371	-	-	-	-	-	-	***170***	-	-	-	-	-	-	-	-	-	-
	MW13-C-AD05	Duplicate	-	371	-	-	-	-	-	-	***144***	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	0	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-
	MW13-03-AD05	2013 07 26	8.16	425	1,330	-	-	-	-	-	***200***	89	65.6	-	301	368	< 1	< 1	-	-	-
	MW13-C-AD05	Duplicate	8.11	426	1,340	-	-	-	-	-	***220***	90	63.8	-	301	367	< 1	< 1	-	-	-
	QA/QC RPD%		*	0	1	-	-	-	-	-	10	*	3	-	0	0	*	*	-	-	-
BH13-04	zMW13-04-AD05	2013 10 02	8.17	318	637	-	-	316	6.3	322	6.5	100	-	-	269	328	< 1	< 1	-	-	-
	BH13-04	2013 10 29	-	353	-	-	-	-	-	-	7.5	-	-	-	-	-	-	-	-	-	-
	BH13-04-GW2-AD05	2014 08 18	-	356	-	-	-	-	-	-	5.8	-	-	-	-	-	-	-	-	-	-
	MW13-04-141030	2014 10 30	-	373	-	-	-	-	-	-	6.4	-	-	-	-	-	-	-	-	-	-
	BH13-04-6W03-AD05	2015 10 01	8.27	365	606	-	24	100	< 5.0	100	9.8	100	77.9	0.0052	243	297	< 0.50	< 0.50	< 0.50	-	-
BH13-05	BH13-05	2013 10 29	-	381	-	-	-	-	-	-	***200***	-	-	-	-	-	-	-	-	-	-
	DUP 1	Duplicate	-	378	-	-	-	-	-	-	***200***	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	1	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
	BH13-05-GW2-AD05	2014 08 15	-	336	-	-	-	-	-	-	***130***	-	-	-	-	-	-	-	-	-	-
	BH14-B-GW2-AD05	Duplicate	-	353	-	-	-	-	-	-	***130***	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	5	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
	MW13-05-141030	2014 10 30	-	361	-	-	-	-	-	-	120	-	-	-	-	-	-	-	-	-	-
	BH13-05-GW03-AD05	2015 09 28	8.08	339	437	-	37	< 20	< 5.0	< 20	40	88	70.1	< 0.0050	89.3	109	< 0.50	< 0.50	< 0.50	-	-
	DUP 1	Duplicate	8.16	366	702	-	17	< 20	9.5	< 20	42	87	67.4	< 0.0050	242	295	< 0.50	< 0.50	< 0.50	-	-
	QA/QC RPD%		*	8	47	-	*	*	*	*	5	1	4	*	92	92	*	*	*	-	-
Federal Guideline																					
Canadian Drinking Water Quality Guidelines (CDWQ(			7.0 - 10.5	n/a	n/a	500	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential Land Use (RL)[a]			6.5 - 9.0	n/a	n/a	n/a	77 - 1,916[c]	2,935	60	n/a	120	120	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BC Standard																					
CSR Drinking Water (DW)			n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Aquatic Life (AW)[b]			n/a	n/a	n/a	n/a	3,700 - 18,500[c]	400,000	200 - 2,000[d]	400,000	1,500	2,000 - 3,000[e]	1,280 - 4,290[e]	n/a	n/a	n/a	n/a	n/a	n/a	15,000	n/a

All terms defined within the body of SNC-Lavalin's report. Associated AGAT file(s): 17N229446, 17Y227151.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[b] Standard to protect freshwater aquatic life.

[c] Guideline varies with pH and temperature.

[d] Standard varies with Chloride.

[e] Standard varies with hardness.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 20 (Cont'd): Summary of Analytical Results for Dissolved Inorganics in Groundwater

			Physical Parameters				Dissolved Inorganics														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	pH pH	Hardness mg/L	Conductivity µS/cm	Total Dissolved Solids mg/L	Ammonia Nitrogen µg/L	Nitrate Nitrogen µg/L	Nitrite Nitrogen µg/L	Nitrate+Nitrite Nitrogen µg/L	Chloride mg/L	Fluoride µg/L	Sulphate mg/L	Phosphate mg/L	Total Alkalinity mg/L	Alkalinity, Bicarbonate mg/L	Alkalinity, Carbonate mg/L	Alkalinity, Hydroxide mg/L	Alkalinity pH 4.5 mg/L	Salinity mg/L	Sodium Adsorption Ratio None
BH13-06	BH13-06	2013 10 29	-	784	-	-	-	-	-	-	***630***	-	-	-	-	-	-	-	-	-	-
	BH13-06-GW2-AD05	2014 08 13	-	368	-	-	-	-	-	-	71	-	-	-	-	-	-	-	-	-	-
	MW13-06-141030	2014 10 30	-	447	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-	-
	BH13-06-GW03-AD05	2015 09 28	8.16	409	969	-	51	31	< 5.0	31	120	86	57.5	< 0.0050	265	323	< 0.50	< 0.50	< 0.50	-	-
	MW13-06-170613	2017 06 13	7.3	569	1,440	-	-	-	-	-	***167***	-	***161***	-	-	-	-	-	-	635	-
BH13-07	zMW13-07-AD05	2013 10 01	8.13	411	921	-	-	139	< 10	139	87	***230***	-	-	264	322	< 1	< 1	-	-	-
	BH13-07	2013 10 29	-	430	-	-	-	-	-	-	120	-	-	-	-	-	-	-	-	-	-
BH13-08	BH13-08-GW01-AD05	2014 03 11	8.1	351	934	-	32	< 40	< 10	< 40	84	98	73.2	0.0053	307	375	< 1	< 1	-	-	-
	BH13-08-GW2-AD05	2014 08 17	-	363	-	-	-	-	-	-	75	-	-	-	-	-	-	-	-	-	-
	MW13-08-141101	2014 11 01	-	391	-	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-
BH14-09	BH14-09-GW01-AD05	2014 03 12	7.99	383	1,250	-	50	< 40	< 10	< 40	***170***	100	72.2	< 0.01	327	399	< 1	< 1	-	-	-
	BH14-09-GW2-AD05	2014 08 18	-	391	-	-	-	-	-	-	***170***	-	-	-	-	-	-	-	-	-	-
	MW14-09-141031	2014 10 31	-	413	-	-	-	-	-	-	***150***	-	-	-	-	-	-	-	-	-	-
	BH14-09-6W03-AD05	2015 10 01	8.24	436	1,110	-	21	< 20	< 5.0	< 20	***140***	84	63.3	0.0247	294	358	< 0.50	< 0.50	< 0.50	-	-
BH14-10	BH14-10-GW01-AD05	2014 03 11	7.98	425	1,270	-	50	< 40	< 10	< 40	***130***	64	***130***	< 0.01	375	457	< 1	< 1	-	-	-
	BH14-10-GW2-AD05	2014 08 13	-	367	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-
	MW14-10-141030	2014 10 30	-	425	-	-	-	-	-	-	96	-	-	-	-	-	-	-	-	-	-
	BH14-10-GW03-AD05	2015 09 28	8.1	410	917	-	84	< 20	< 5.0	< 20	120	92	55.8	0.0053	236	288	< 0.50	< 0.50	< 0.50	-	-
	PUMPTEST	2014 08 14	-	386	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-
	MW14-10-170618	2017 06 18	7.6	673	1,310	-	-	-	-	-	110	-	***109***	-	-	-	-	-	-	575	-
BH14-11	BH14-11-GW01-AD05	2014 03 10	7.97	421	1,150	-	88	< 40	< 10	< 40	***130***	71	94.4	< 0.01	335	408	< 1	< 1	-	-	-
	BH14-11-GW2-AD05	2014 08 14	-	392	-	-	-	-	-	-	90	-	-	-	-	-	-	-	-	-	-
	MW14-11-141030	2014 10 30	-	433	-	-	-	-	-	-	***140***	-	-	-	-	-	-	-	-	-	-
	BH14-11-GW03-AD05	2015 09 28	8.13	418	953	-	36	< 20	< 5.0	< 20	***140***	93	62	< 0.0050	240	292	< 0.50	< 0.50	< 0.50	-	-
	MW14-11-170618	2017 06 18	7.4	695	1,510	-	-	-	-	-	***144***	-	***286***	-	-	-	-	-	-	667	-
BH14-12	BH14-12-GW01-AD05	2014 03 09	7.96	416	887	-	29	< 40	< 10	< 40	65	81	69.9	< 0.01	328	400	< 1	< 1	-	-	-
	BH14-12-GW2-AD05	2014 08 17	-	369	-	-	-	-	-	-	36	-	-	-	-	-	-	-	-	-	-
	MW14-12-141101	2014 11 01	-	409	-	-	-	-	-	-	72	-	-	-	-	-	-	-	-	-	-
BH14-13	BH14-13-GW01-AD05	2014 03 10	8	383	684	-	15	347	< 10	347	2	88	84.9	< 0.01	303	369	< 1	< 1	-	-	-
	BH14-13-GW2-AD05	2014 08 18	-	360	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-
	MW14-13-141031	2014 10 31	-	402	-	-	-	-	-	-	1.3	-	-	-	-	-	-	-	-	-	-
BH14-14	BH14-14-GW01-AD05	2014 03 09	8.18	315	585	-	72	< 40	< 10	< 40	3.8	110	75.4	< 0.01	251	307	< 1	< 1	-	-	-
	BH14-14-GW2-AD05	2014 08 19	-	327	-	-	-	-	-	-	9.2	-	-	-	-	-	-	-	-	-	-
	MW14-14-141030	2014 10 30	-	321	-	-	-	-	-	-	5.4	-	-	-	-	-	-	-	-	-	-
BH14-15	BH14-15-GW01-AD05	2014 03 10	8.08	343	654	-	43	< 40	< 10	< 40	10	70	67.2	< 0.01	284	347	< 1	< 1	-	-	-
	BH14-15A-GW01-AD05	Duplicate	8.09	343	667	-	51	< 40	< 10	< 40	11	70	67.8	< 0.01	291	356	< 1	< 1	-	-	-
	QA/QC RPD%		0	0	2	-	*	*	*	*	10	*	1	*	2	3	*	*	-	-	-
	BH14-15-GW2-AD05	2014 08 14	-	333	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-
	BH14-A-GW2-AD05	Duplicate	-	332	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
	MW14-15-141029	2014 10 29	-	362	-	-	-	-	-	-	6.6	-	-	-	-	-	-	-	-	-	-
	MW14-A-141029	Duplicate	-	344	-	-	-	-	-	-	6.6	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	5	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
BH14-16	BH14-16-GW01-AD05	2014 03 09	8.15	354	663	-	24	144	< 10	144	3.4	67	85.2	< 0.01	290	354	< 1	< 1	-	-	-
	BH14-16-GW2-AD05	2014 08 19	-	345	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-
	MW14-16-141031	2014 10 31	-	347	-	-	-	-	-	-	3.8	-	-	-	-	-	-	-	-	-	-
BH14-18	BH14-18-GW01-AD05	2014 03 13	7.99	370	694	-	81	< 40	< 10	< 40	11	98	68	< 0.01	308	376	< 1	< 1	-	-	-
	BH14-18-GW2-AD05	2014 08 17	-	367	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
	MW14-18-141029	2014 10 29	-	374	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-
	BH14-18-GW03-AD05	2015 09 28	8.25	357	634	-	16.5	< 20	< 5.0	< 20	19	97	59	< 0.0050	260	317	< 0.50	< 0.50	< 0.50	-	-
BH14-19	BH14-19-GW01-AD05	2014 03 10	7.99	372	1,080	-	70	38	< 10	38	120	82	73.5	0.0222	315	385	< 1	< 1	-	-	-
	MW14-19-141031	2014 10 31	-	417	-	-	-	-	-	-	***190***	-	-	-	-	-	-	-	-	-	-
Federal Guideline																					
Canadian Drinking Water Quality Guidelines (CDWQ(			7.0 - 10.5	n/a	n/a	500	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential Land Use (RL)[a]			6.5 - 9.0	n/a	n/a	n/a	77 - 1,916[c]	2,935	60	n/a	120	120	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BC Standard																					
CSR Drinking Water (DW)			n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Aquatic Life (AW)[b]			n/a	n/a	n/a	n/a	3,700 - 18,500[c]	400,000	200 - 2,000[d]	400,000	1,500	2,000 - 3,000[e]	1,280 - 4,290[e]	n/a	n/a	n/a	n/a	n/a	n/a	15,000	n/a

All terms defined within the body of SNC-Lavalin's report. Associated AGAT file(s): 17N229446, 17Y227151.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[b] Standard to protect freshwater aquatic life.

[c] Guideline varies with pH and temperature.

[d] Standard varies with Chloride.

[e] Standard varies with hardness.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 20 (Cont'd): Summary of Analytical Results for Dissolved Inorganics in Groundwater

			Physical Parameters				Dissolved Inorganics														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	pH pH	Hardness mg/L	Conductivity µS/cm	Total Dissolved Solids mg/L	Ammonia Nitrogen µg/L	Nitrate Nitrogen µg/L	Nitrite Nitrogen µg/L	Nitrate+Nitrite Nitrogen µg/L	Chloride mg/L	Fluoride µg/L	Sulphate mg/L	Phosphate mg/L	Total Alkalinity mg/L	Alkalinity, Bicarbonate mg/L	Alkalinity, Carbonate mg/L	Alkalinity, Hydroxide mg/L	Alkalinity pH 4.5 mg/L	Salinity mg/L	Sodium Adsorption Ratio None
BH14-20	BH14-20-GW01-AD05	2014 03 10	8.02	405	764	-	55	< 40	< 10	< 40	17	63	64.9	0.0094	342	417	< 1	< 1	-	-	-
	BH14-20-GW2-AD05	2014 08 14	-	282	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
	MW14-20-141031	2014 10 31	-	352	-	-	-	-	-	-	22	-	-	-	-	-	-	-	-	-	-
	BH14-20-6W03-AD05	2015 10 01	8.34	382	667	-	48	< 20	< 5.0	< 20	20	94	53.9	< 0.0050	283	339	3.16	< 0.50	2.63	-	-
BH14-22	BH14-22-GW01-AD05	2014 03 11	8.1	323	1,270	-	19	114	11.6	126	***190***	110	71.4	0.0268	281	343	< 1	< 1	-	-	-
	BH14-22A-GW01-AD05	Duplicate	8.07	327	1,270	-	23	113	10.9	124	***190***	110	74.4	0.0281	279	340	< 1	< 1	-	-	-
	QA/QC RPD%		0	1	0	-	*	*	*	*	0	0	4	*	1	1	*	*	-	-	-
	BH14-22-GW2-AD05	2014 08 15	-	322	-	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-
	MW14-22-141030	2014 10 30	-	359	-	-	-	-	-	-	***140***	-	-	-	-	-	-	-	-	-	-
BH14-23	BH14-23-GW01-AD05	2014 03 11	8.01	397	1,230	-	75	220	< 10	220	***170***	95	73.9	0.0075	320	390	< 1	< 1	-	-	-
	BH14-23-GW2-AD05	2014 08 15	-	393	-	-	-	-	-	-	***180***	-	-	-	-	-	-	-	-	-	-
	MW14-23-141030	2014 10 30	-	415	-	-	-	-	-	-	***160***	-	-	-	-	-	-	-	-	-	-
	MW14-B-141030	Duplicate	-	397	-	-	-	-	-	-	***160***	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	4	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
BH14-24	BH14-24-GW01-AD05	2014 03 11	8.19	321	638	-	36	125	< 10	125	14	100	78.2	< 0.01	263	321	< 1	< 1	-	-	-
	BH14-24-GW2-AD05	2014 08 16	-	326	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
	BH14-C-GW2-AD05	Duplicate	-	322	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	1	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
	MW14-24-141030	2014 10 30	-	336	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-	-	-	-
	MW14-C-141030	Duplicate	-	321	-	-	-	-	-	-	8.9	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	5	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
BH14-25	BH14-25-GW01-AD05	2014 03 11	8.03	362	879	-	18	< 40	< 10	< 40	70	84	67.6	0.0109	307	374	< 1	< 1	-	-	-
	BH14-25-GW2-AD05	2014 08 16	-	354	-	-	-	-	-	-	65	-	-	-	-	-	-	-	-	-	-
BH14-26	BH14-26-GW01-AD05	2014 03 13	7.93	383	1,270	-	52	35	5.2	40	***170***	110	75.1	< 0.01	339	414	< 1	< 1	-	-	-
	BH14-26-GW2-AD05	2014 08 17	-	367	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-
	MW14-26-141101	2014 11 01	-	442	-	-	-	-	-	-	***160***	-	-	-	-	-	-	-	-	-	-
	BH14-26-6W03-AD05	2015 10 01	8.09	411	1,010	-	52	< 20	< 5.0	< 20	***130***	85	65.1	< 0.0050	249	304	< 0.50	< 0.50	< 0.50	-	-
BH14-27	BH14-27-GW01-AD05	2014 03 12	8.13	336	675	-	49	96	< 10	96	11	110	77.7	0.0051	288	352	< 1	< 1	-	-	-
	BH14-27-GW2-AD05	2014 08 15	-	353	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-
	MW14-27-141031	2014 10 31	-	358	-	-	-	-	-	-	9.3	-	-	-	-	-	-	-	-	-	-
BH14-28	BH14-28-GW01-AD05	2014 03 12	7.99	349	828	-	63	152	< 10	152	45	100	77.4	< 0.01	311	380	< 1	< 1	-	-	-
	BH14-28-GW2-AD05	2014 08 16	-	364	-	-	-	-	-	-	59	-	-	-	-	-	-	-	-	-	-
	MW14-28-141031	2014 10 31	-	363	-	-	-	-	-	-	74	-	-	-	-	-	-	-	-	-	-
Tap	Tap (2006)	2006 08 20	-	363	-	-	-	-	-	-	0.76	-	85.8	-	-	-	-	-	-	-	-
	Tap (2007)	2007 08 22	-	365	-	-	-	-	-	-	0.37	-	77.3	-	-	-	-	-	-	1	-
	GR70	Duplicate	-	-	-	-	-	-	-	-	0.38	-	77.7	-	-	-	-	-	-	1	-
	QA/QC RPD%		-	-	-	-	-	-	-	-	*	-	1	-	-	-	-	-	-	*	-
	Tap (2008)	2008 10 06	-	-	-	-	-	-	-	-	0.65	-	77.3	-	-	-	-	-	-	-	-
	2458-0812-TW1	2012 08 08	8.23	< 1	694	396	-	-	-	-	0.55	-	73.5	-	-	272	< 1	-	272	297	120
Tap FS	Tap FS	2011 09 16	-	0.54	-	-	-	-	-	-	< 0.5	-	73	-	-	-	-	-	-	< 1,000	-
	GR86	Duplicate	-	0.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tap4	TAP 4-AD05	2013 07 26	8.5	< 1	709	-	-	-	-	-	1.2	110	89.2	-	287	337	6.44	< 1	-	-	-
Federal Guideline																					
Canadian Drinking Water Quality Guidelines (CDWQ(			7.0 - 10.5	n/a	n/a	500	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential Land Use (RL)[a]			6.5 - 9.0	n/a	n/a	n/a	77 - 1,916[c]	2,935	60	n/a	120	120	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BC Standard																					
CSR Drinking Water (DW)			n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Aquatic Life (AW)[b]			n/a	n/a	n/a	n/a	3,700 - 18,500[c]	400,000	200 - 2,000[d]	400,000	1,500	2,000 - 3,000[e]	1,280 - 4,290[e]	n/a	n/a	n/a	n/a	n/a	n/a	15,000	n/a

All terms defined within the body of SNC-Lavalin's report. Associated AGAT file(s): 17N229446, 17Y227151.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[b] Standard to protect freshwater aquatic life.

[c] Guideline varies with pH and temperature.

[d] Standard varies with Chloride.

[e] Standard varies with hardness.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 20 (Cont'd): Summary of Analytical Results for Dissolved Inorganics in Groundwater

			Physical Parameters				Dissolved Inorganics														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	pH pH	Hardness mg/L	Conductivity µS/cm	Total Dissolved Solids mg/L	Ammonia Nitrogen µg/L	Nitrate Nitrogen µg/L	Nitrite Nitrogen µg/L	Nitrate+Nitrite Nitrogen µg/L	Chloride mg/L	Fluoride µg/L	Sulphate mg/L	Phosphate mg/L	Total Alkalinity mg/L	Alkalinity, Bicarbonate mg/L	Alkalinity, Carbonate mg/L	Alkalinity, Hydroxide mg/L	Alkalinity pH 4.5 mg/L	Salinity mg/L	Sodium Adsorption Ratio None
Well	Well (2004)	2004 12 08	-	-	-	-	-	-	-	-	0.41	-	84.7	-	-	-	-	-	-	0.3	-
	Well (2005)	2005 11 06	-	346	-	-	-	-	-	-	0.34	-	87.7	-	-	-	-	-	-	-	-
	GR23	Duplicate	-	339	-	-	-	-	-	-	0.32	-	87.9	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	2	-	-	-	-	-	-	*	-	0	-	-	-	-	-	-	-	-
	Well (2006)	2006 08 20	-	371	-	-	-	-	-	-	0.76	-	85.9	-	-	-	-	-	-	-	-
	GR60	Duplicate	-	340	-	-	-	-	-	-	0.79	-	85.9	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	9	-	-	-	-	-	-	*	-	0	-	-	-	-	-	-	-	-
	Well (2008)	2008 10 06	-	-	-	-	-	-	-	-	0.65	-	76.6	-	-	-	-	-	-	-	-
	Well (2009)	2009 10 19	-	359	610	-	-	-	-	-	0.79	-	71.2	-	-	-	-	-	-	**300,000**	-
	GR83	Duplicate	-	348	614	-	-	-	-	-	0.79	-	71.2	-	-	-	-	-	-	**300,000**	-
	QA/QC RPD%		-	3	1	-	-	-	-	-	*	-	0	-	-	-	-	-	-	*	-
	WELL (2010)	2010 09 08	-	364	-	-	-	-	-	-	< 1	-	65.7	-	-	-	-	-	-	< 1,000	-
	GR2	Duplicate	-	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Well (2011)	2011 09 16	-	356	-	-	-	-	-	-	< 0.5	-	76.1	-	-	-	-	-	-	< 1,000	-
	GR85	Duplicate	-	-	-	-	-	-	-	-	< 0.5	-	76.4	-	-	-	-	-	-	< 1,000	-
	QA/QC RPD%		-	-	-	-	-	-	-	-	*	-	0	-	-	-	-	-	-	*	-
	2458-0812-DW1	2012 08 08	7.87	337	624	348	-	-	-	-	3.45	-	75.5	-	-	257	< 1	-	257	266	0.044
	2458-0812-DW101	Duplicate	7.88	332	623	344	-	-	-	-	1.23	-	75.1	-	-	258	< 1	-	258	266	0.044
	QA/QC RPD%		0	1	0	1	-	-	-	-	95	-	1	-	-	0	*	-	0	*	*
	WELL-AD05	2013 07 26	8.2	370	633	-	-	-	-	-	1.1	110	93	-	272	332	< 1	< 1	-	-	-
Federal Guideline																					
Canadian Drinking Water Quality Guidelines (CDWQ(			7.0 - 10.5	n/a	n/a	500	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential Land Use (RL)[a]			6.5 - 9.0	n/a	n/a	n/a	77 - 1,916[c]	2,935	60	n/a	120	120	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BC Standard																					
CSR Drinking Water (DW)			n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000	250	1,500	500	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CSR Aquatic Life (AW)[b]			n/a	n/a	n/a	n/a	3,700 - 18,500[c]	400,000	200 - 2,000[d]	400,000	1,500	2,000 - 3,000[e]	1,280 - 4,290[e]	n/a	n/a	n/a	n/a	n/a	n/a	15,000	n/a

All terms defined within the body of SNC-Lavalin's report. Associated AGAT file(s): 17N229446, 17Y227151.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

[a] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[b] Standard to protect freshwater aquatic life.

[c] Guideline varies with pH and temperature.

[d] Standard varies with Chloride.

[e] Standard varies with hardness.

TABLE 21: Summary of Analytical Results for Dissolved Metals in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical	Geochemical Indicators							Dissolved Metals																							
			Hardness mg/L	Aluminum µg/L	Calcium mg/L	Iron µg/L	Magnesium mg/L	Manganese µg/L	Potassium mg/L	Sodium mg/L	Antimony µg/L	Arsenic µg/L	Barium µg/L	Beryllium µg/L	Boron µg/L	Cadmium µg/L	Chromium µg/L	Cobalt µg/L	Copper µg/L	Lead µg/L	Lithium µg/L	Mercury µg/L	Molybdenum µg/L	Nickel µg/L	Selenium µg/L	Silver µg/L	Strontium µg/L	Thallium µg/L	Tin µg/L	Titanium µg/L	Uranium µg/L	Vanadium µg/L	Zinc µg/L	Zirconium µg/L
BH113M	BH113M (2006)	2006 08 20	349	-	76.5	-	32.8	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH113M (2007)	2007 08 22	298	7	69.8	< 50	30	1	2.1	4.47	< 1	< 1	46	< 1	50	< 0.2	< 1	< 1	1	< 1	-	< 0.02	0.9	< 1	< 1	< 0.25	250	< 0.1	-	< 1	1.4	-	< 5	-
	GR71	Duplicate	318	6	69.7	< 50	30.4	1	2.9	4.52	< 1	< 1	48	< 1	50	< 0.2	< 1	< 1	2	< 1	-	< 0.02	0.8	< 1	< 1	< 0.25	260	< 0.1	-	< 1	1.4	-	***7,000***	-
	QA/QC RPD%		6	15	0	*	1	*	32	*	*	*	4	*	0	*	*	*	67	*	-	*	12	*	*	*	4	*	-	*	0	-	*	-
	BH113M (2008)	2008 10 06	-	-	77.9	-	35.7	-	1.5	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR81	Duplicate	-	-	77.8	-	35.8	-	1.5	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	-	0	-	0	-	0	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH113M (2009)	2009 10 19	336	7	72	< 50	37.9	0.9	1.85	2.97	< 0.5	< 1	46	< 0.5	< 25	< 0.05	< 1	< 0.5	3.6	< 0.25	**8.8**	< 0.02	0.8	< 1	< 1	< 0.2	241	< 0.1	< 0.5	< 1	1.3	< 0.5	9	< 0.5
	BH113M (2010)	2010 09 08	340	< 5	78.8	< 30	34.8	< 0.300	2.3	2.4	< 0.500	< 0.500	52	< 1	< 100	0.124	< 2	< 0.300	< 1	< 0.500	**8.7**	< 0.0100	< 1	1.1	< 1	< 0.0200	-	< 0.200	< 0.500	< 10	1.32	< 1	< 5	-
BH118M	BH118M (2009)	2009 10 19	395	8	92.9	< 50	39.5	1.2	2.37	91.6	< 0.5	< 1	93	< 0.5	< 25	< 0.05	< 1	< 0.5	< 0.5	< 0.25	**8.5**	< 0.02	0.8	< 1	< 1	< 0.2	318	< 0.1	< 0.5	< 1	1.4	< 0.5	< 5	< 0.5
	GR82	Duplicate	401	11	94.6	< 50	39.9	1.1	2.4	92.2	< 0.5	< 1	94	< 0.5	< 25	< 0.05	< 1	< 0.5	< 0.5	< 0.25	**8.6**	< 0.02	0.8	< 1	< 1	< 0.2	328	< 0.1	< 0.5	< 1	1.5	< 0.5	< 5	< 0.5
	QA/QC RPD%		2	32	2	*	1	*	1	*	*	*	1	*	*	*	*	*	*	*	*	*	0	*	*	*	3	*	*	*	7	*	*	*
	BH118M (2010)	2010 09 08	398	< 10	100	< 30	35.7	< 0.600	< 2	49.5	< 1	< 1	91	< 2[a]	< 100	0.06	< 4	< 0.600	< 2	< 1	< 10[a]	< 0.0100	< 2	< 2	0.69	< 0.0400	-	< 0.400	< 1	< 10	1.73	< 2	< 5	-
	GR1	Duplicate	396	< 10	99.6	< 30	35.8	< 0.600	< 2	51.4	< 1	< 1	94	< 2[a]	< 100	0.064	< 2	< 0.600	< 2	< 1	< 10[a]	< 0.0100	< 2	< 2	0.69	< 0.0400	-	< 0.400	< 1	< 10	1.69	< 2	< 5	-
	QA/QC RPD%		1	*	0	*	0	*	*	*	*	*	3	*	*	6	*	*	*	*	*	*	*	*	0	*	-	*	*	*	2	*	*	-
	BH118M (2011)	2011 09 16	454	< 5	113	< 30	41.8	0.87	2.8	184	< 0.5	< 0.5	140	< 1	< 100	0.031	< 1	< 0.3	< 1	< 0.5	-	< 0.01	< 1	< 1	< 1	< 0.02	381	< 0.2	< 0.5	15	1.5	< 1	< 5	-
	GR84	Duplicate	448	< 5	112	< 30	40.7	0.93	2.8	174	< 0.5	< 0.5	139	< 1	< 100	0.032	< 1	< 0.3	< 1	< 0.5	-	< 0.01	< 1	< 1	< 1	< 0.02	-	< 0.2	< 0.5	14	1.51	< 1	< 5	-
	QA/QC RPD%		1	*	1	*	3	*	0	*	*	*	1	*	*	*	*	*	*	*	-	*	*	*	*	*	-	*	*	7	1	*	*	-
BH119M	BH119M (2009)	2009 10 19	389	12	94.2	< 50	37.2	**53**	2.48	109	< 0.5	< 1	100	< 0.5	< 25	0.05	< 1	1.1	< 0.5	< 0.25	6.8	< 0.02	0.6	1	< 1	< 0.2	305	< 0.1	< 0.5	1	1.5	< 0.5	< 5	< 0.5
	BH119M (2010)	2010 09 08	405	< 10	102	< 30	36.6	10.2	2.8	121	< 1	< 1	120	< 2[a]	< 100	0.066	< 2	< 0.600	< 2	< 1	< 10[a]	< 0.0100	< 2	< 2	< 0.500	< 0.0400	-	< 0.400	< 1	< 10	1.46	< 2	< 5	-
BH120M	BH120M (2009)	2009 10 19	327	10	70.4	< 50	36.7	1.6	1.6	4.69	< 0.5	< 1	44	< 0.5	< 25	< 0.05	< 1	< 0.5	< 0.5	< 0.25	7.9	< 0.02	0.8	< 1	< 1	< 0.2	244	< 0.1	< 0.5	< 1	1.3	< 0.5	< 5	< 0.5
	BH120M (2010)	2010 09 08	358	< 5	80.6	< 30	37.9	0.82	3.5	4.8	< 0.500	< 0.500	49	< 1	< 100	0.028	< 1	< 0.300	< 1	< 0.500	6.5	< 0.0100	< 1	< 1	< 1	< 0.0200	-	< 0.200	< 0.500	< 10	1.5	< 1	< 5	-
BH12-02	MW12-02-AD05	2012 10 24	401	3	94.8	***1,390***	40	29	2.09	3.4	0.09	0.1	61.2	< 0.01	7	< 0.01	< 0.5	0.3	< 0.2	< 0.01	7.8	< 0.003	0.39	0.8	< 0.1	< 0.01	-	0.002	-	***137***	1.22	< 0.1	1	-
	MW12-A-AD05	Duplicate	404	2	95.5	***1,390***	40.3	29	2.06	3.34	0.09	0.2	62.3	< 0.01	7	< 0.01	< 0.5	0.29	< 0.2	0.01	**8.1**	< 0.003	0.42	0.9	< 0.1	< 0.01	-	< 0.002	-	***131***	1.25	< 0.1	< 1	-
	QA/QC RPD%		< 1	*	< 1	0	< 1	0	1	*	*	*	2	*	*	*	*	3	*	*	*	*	7	12	*	*	-	*	-	5	2	*	*	-
	MW12-02-AD05	2013 03 14	422	3	98.1	***1,690***	43.1	11	-	5.74	0.29	0.3	66	< 0.01	11	0.01	< 0.5	0.31	0.3	< 0.07	**12.1**	< 0.025	0.38	4	< 0.1	< 0.01	-	< 0.03	-	1.6	1.77	0.2	14	-
	MW12-A-AD05	Duplicate	421	3	98	***1,700***	42.8	11	-	5.67	0.32	0.2	65.2	0.02	11	< 0.01	< 0.5	0.31	0.4	< 0.07	**11.9**	< 0.025	0.41	3.8	0.2	< 0.01	-	< 0.03	-	1.8	1.73	< 0.1	10	-
	QA/QC RPD%		< 1	*	< 1	< 1	< 1	0	-	*	*	*	1	*	*	*	*	0	*	*	*	*	7	5	*	*	-	*	-	12	2	*	*	-
	MW12-02-AD05	2013 07 26	417	3.7	99	19	41.3	29.1	2.78	7.57	< 1	< 0.2	78.9	< 0.2	< 100	0.039	< 2	1.42	1.81	< 0.4	**10.1**	< 0.1[a]	9.6	51.8	0.42	< 0.04	428	< 0.1	< 10	< 10	1.72	< 10	***71.3***	< 1
BH13-03	MW13-03-AD05	2013 03 14	371	6	90.3	***400***	35.4	**425**	-	93.1	< 1	< 1	110	< 1	< 10	< 0.05	3	3	< 2	< 1	8	< 0.025	< 3	6	< 1	< 0.1	-	< 0.1	-	2	1	< 1	13	-
	MW13-C-AD05	Duplicate	371	4	90.1	***400***	35.4	**427**	-	92.6	< 1	< 1	110	< 1	< 10	0.06	3	3	< 2	< 1	8	< 0.025	< 3	6	< 1	< 0.1	-	< 0.1	-	2	1	< 1	6	-
	QA/QC RPD%		0	*	0	0	0	0	-	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	-	*	*	*	74	-
	MW13-03-AD05	2013 07 26	425	4.2	103	188	40.7	10.5	3.03	109	< 1	0.38	116	< 0.2	< 100	< 0.02	< 2	< 1	0.52	< 0.4	7.8	< 0.1[a]	< 2	< 2	0.26	0.037	362	< 0.1	< 10	< 10	1.3	< 10	19.8	< 1
	MW13-C-AD05	Duplicate	426	3.5	101	195	42	11.2	3.04	113	< 1	0.55	114	< 0.2	< 100	< 0.02	< 2	< 1	0.74	< 0.4	6.9	< 0.1[a]	< 2	< 2	0.21	0.071	367	< 0.1	< 10	< 10	1.28	< 10	< 10	< 1
	QA/QC RPD%		0	*	2	4	3	6	0	4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	*
BH13-04	zMW13-04-AD05	2013 10 02	318	< 6	72.9	< 10	33.1	34.9	1.71	3.95	< 1	0.12	60.7	< 0.2	< 100	0.018	< 2	< 1	0.43	< 0.4	6.9	< 0.1[a]	< 2	1.2	0.52	< 0.04	252	< 0.1	< 10	< 10	1.39	< 10	8	< 1
	BH13-04	2013 10 29	353	3.8	83.5	9.9	35	3.1	1.81	4.77	< 1	0.15	57.9	< 0.2	< 100	0.02	< 2	< 1	0.39	< 0.4	7.1	< 0.1[a]	< 2	< 2	0.51	< 0.04	300	< 0.1	< 10	< 10	1.52	< 10	< 10	< 1
	BH13-04-GW2-AD05	2014 08 18	356	3.8	77.6	9.3	39.3	< 2	1.95	4.95	< 1	0.31	50.9	< 0.2	< 100	0.012	< 2	< 1	1.52	< 0.4	6.4	< 0.02	< 2	1.2	0.49	< 0.04	259	< 0.1	< 10	< 10	1.55	< 10	5.7	< 1
	MW13-04-141030	2014 10 30	373	6.1	83.3	45.1	40.1	2	1.91	5.06	< 0.5	0.26	55.8	< 0.1	< 50	0.011	< 1	< 0.5	0.33	< 0.2	7.8	< 0.01	< 1	1.3	0.46	0.023	277	< 0.05	< 5	< 5	1.55	< 5	< 5	< 0.5
	BH13-04-6W03-AD05	2015 10 01	365	10.3	79.6	12.8	40.5	4.1	1.96	6.79	< 0.50	0.45	46.8	< 0.10	< 50	0.027	< 1.0	< 0.50	1.28	< 0.20	7.5	< 0.010	1	< 1.0	0.43	< 0.020	272	< 0.050	< 5.0	< 5.0	1.39	< 5.0	22.3	< 0.50
BH13-05	BH13-05	2013 10 29	381	< 6	93.8	***904***	35.7	**183**	2.66	119	< 1	1.4	92.5	< 0.2	< 100	< 0.02	< 2	< 1	< 0.4	< 0.4	7.4	< 0.1[a]	< 2	< 2	< 0.2	< 0.04	348	< 0.1	< 10	< 10	1.35	< 10	< 10	< 1
	DUP 1	Duplicate	378	< 6	93.6	***843***	34.9	**182**	2.74	115	< 1	1.38	92.5	< 0.2	< 100	< 0.02	< 2	< 1	0.48	< 0.4	7.6	< 0.1[a]	< 2	< 2	< 0.2	< 0.04	351	< 0.1	< 10	< 10	1.35	< 10	< 10	< 1
	QA/QC RPD%		1	*	0	7	2	1	3	*	*	1	0	*	*	*	*	*	*	*	*	*	*	*	*	*	1	*	*	*	0	*	*	*
	BH13-05-GW2-AD05	2014 08 15	336	3.9	82.5	***601***	31.6	**78**	1.79	83.4	< 1	0.47	76.4	< 0.2	< 100	< 0.02	< 2	< 1	***4.81***	< 0.4	7.2	< 0.02	1.6	< 2	< 0.2	< 0.04	285	< 0.1	< 10	< 10	1.64	< 10	< 10	< 1
	BH14-B-GW2-AD05	Duplicate	353	3.2	84.9	***598***	34.2	**78.4**	1.86	85.2	< 1	0.51	76.1	< 0.2	< 100	< 0.02	< 2	< 1	0.64	< 0.4	7	< 0.02	1.7	< 2	< 0.2	< 0.04	283	< 0.1	< 10	< 10	1.65	< 10	< 10	< 1
	QA/QC RPD%		5	*	3	1	8	1	4	*	*	*	0	*	*	*	*	*	*	*	*	*	6	*	*	*	1	*	*	*	1	*	*	*
	MW13-05-141030	2014 10 30	361	< 3	87.7	***744***	34.4	**87.2**	1.97	83.1	< 0.5	3.93	83.3	< 0.1	< 50	< 0.01	< 1	< 0.5	< 0.2	< 0.2	7.1	< 0.01	< 1	< 1	< 0.1	< 0.02	300	< 0.05	< 5	< 5	1.84	< 5	< 5	< 0.5
	BH13-05-GW03-AD05	2015 09 28	339	9.3	82.4	***376***	32.4	**51.1**	1.73	22.9	< 0.50	0.49	61.2	< 0.10	330	< 0.010	< 1.0	< 0.50	< 0.20	< 0.20	5.7	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	272	< 0.050	< 5.0	< 5.0	1.46	< 5.0	9.4	< 0.50
	DUP 1	Duplicate	366	7.5	84	***397***	38	49.7	1.94	25.8	< 0.50	0.44	66	< 0.10	74	< 0.010	< 1.0	< 0.50	< 0.20	< 0.20	< 5.0	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	286	< 0.050	< 5.0	< 5.0	1.65	< 5.0	< 5.0	< 0.50
	QA/QC RPD%		8	*	2	5	16	3	11	12	*	*	8	*	*	*	*	*	*	*	*	*	*	*	*	*	5	*	*	*	12	*	*	*
BH13-06	BH13-06	2013 10 29	784	3.2	188	***3,730***	76.5	**291**	4.88	**264**	< 1	1.87	459	< 0.2	< 100	< 0.02	< 2	0.97	0.3	< 0.4	**17.8**	< 0.1[a]	< 2	2.4	< 0.2	< 0.04	762	< 0.1	< 10	< 10	1.25	< 10	< 10	< 1
	BH13-06-GW2-AD05	2014 08 13	368	32.9	90.7	***1,720***	34.3	**142**	2.19	44.8	< 1	0.32	63.3	< 0.2	< 100	0.017	< 2	0.72	0.85	< 0.4	**8.7**	< 0.02	< 2	1.6	< 0.2	< 0.04	317	< 0.1	< 10	< 10	0.87	< 10	6.1	< 1
	MW13-06-141030	2014 10 30	447	< 3	114	***2,130***	39.8	**127**	2.66	51.4	< 0.5	0.27	87.1	< 0.1	< 50	< 0.01	< 1	< 0.5	< 0.2	< 0.2	**10**	< 0.01	< 1	< 1	< 0.1	< 0.02	379	< 0.05	< 5	< 5	0.75	< 5	< 5	< 0.5
	BH13-06-GW03-AD05	2015 09 28	409	13.4	96	***1,030***	41.1	**80.1**	2.45	54.7	< 0.50	0.61	72	< 0.10	206	< 0.010	< 1.0	0.68	< 0.20	< 0.20	**9**	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	344	< 0.050	< 5.0	< 5.0	0.73	< 5.0	13.4	< 0.50
	MW13-06-170612	2017 06 12/13	569	10	138	***2,780***	54.4	**260**	3.11	66.9	< 0.2	0.4	132	< 0.01	9	0.03	< 0.5	1.26	0.2	0.08	**13.2**	< 0.01	0.32	2.0	< 0.5	< 0.02	481	< 0.01	< 0.05	1.7	5.11	< 0.5	5	0.2
BH13-07	zMW13-07-AD05	2013 10 01	411	4.3	110	114	33.3	**1,760**	2.8	27.3	< 1	0.2	46.5	< 0.2	< 100	0.058	< 2	5.94	1.19	< 0.4	**10.8**	< 0.1[a]	6.2	15.1	0.42	< 0.04	385	< 0.1	< 10	< 10	2.24	< 10	10.6	< 1
	BH13-07	2013 10 29	430	< 6	103	< 10	42	**264**	2.59	43.8	< 1	< 0.2	73.7	< 0.2	< 100	0.139	< 2	1.59	0.22	< 0.4	**9.9**	< 0.1[a]	1.1	6.1	0.39	< 0.04	365	< 0.1	< 10	< 10	1.54	< 10	< 10	< 1
BH13-08	BH13-08-GW01-AD05	2014 03 11	351	< 6	83.1	22	34.9	4.1	2.56	59.7	< 1	0.19	107	< 0.2	< 100	0.024	< 2	< 1	1.22	< 0.4	**10**	< 0.02	< 2	1.8	0.3	< 0.04	308	< 0.1	< 10	< 10	1.34	< 10	5	< 1
	BH13-08-GW2-AD05	2014 08 17	363	22.4	84.5	114	37	5.8	2.52	46.3	< 1	0.42	99.7	< 0.2	< 100	< 0.02	1.2	< 1	0.27	< 0.4	**8.4**	< 0.02	1.4	5	0.14	< 0.04	295	< 0.1	< 10	< 10	1.17	< 10	7.8	< 1
	MW13-08-141101	2014 11 01	391	4.5	93.4	80.8	38.3	4.9	2.64	58	< 0.5	0.48	118	< 0.1	< 50	< 0.01	1.5	< 0.5	< 0.2	< 0.2	**9.3**	< 0.01	1.3	4.2	0.17	< 0.02	325	< 0.05	< 5	< 5	1.33	< 5	< 5	< 0.5
Federal Guideline																																		
Canadian Drinking Water Quality Guidelines (CDWQ			n/a	100	n/a	300	n/a	50	n/a	200	6	10	1,000	n/a	5,000	5	50	n/a	1,000	10	n/a	1	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	20	n/a	5,000	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL			n/a	100[d]	n/a	300	n/a	n/a	n/a	n/a	2,000	5	2,900	5.3	1,500	0.37[e]	8.9	n/a	2 - 4[e]	1 - 7[e]	n/a	0.026	73	25 - 150[e]	1	0.25	n/a	0.8	n/a	100	15	n/a	30	n/a
BC Standard																																		
CSR Drinking Water (DW)			n/a	9,500	n/a	6,500	n/a	1,500	n/a	200	6	10	1,000	8	5,000	5	50	20[f]	1,500	10	8	1	250	80	10	20	2,500	n/a	2,500	n/a	20	20	3,000	n/a
CSR Aquatic Life (AW)[c]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90	50	10,000	1.5	12,000	0.5 - 4[e]	10	40	20 - 90[e]	40 - 160[e]	n/a	0.25	10,000	250 - 1,500[e]	20	0.5 - 15[e]	n/a	3	n/a	1,000	85	n/a	75 - 2,400[e]	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17N229446, 17Y227151.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[c] Standard to protect freshwater aquatic life.

[d] Guideline is pH dependent; based on available data, site pH is > 6.5.

[e] Standard varies with hardness.

[f] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline

BOLD Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline

OUTLINE Concentration greater than CSR Drinking Water (DW) standard

SHADOW Concentration greater than CSR Aquatic Life (AW) standard

TABLE 21 (Cont'd): Summary of Analytical Results for Dissolved Metals in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical	Geochemical Indicators							Dissolved Metals																						
			Hardness mg/L	Aluminum µg/L	Calcium mg/L	Iron µg/L	Magnesium mg/L	Manganese µg/L	Potassium mg/L	Sodium mg/L	Antimony µg/L	Arsenic µg/L	Barium µg/L	Beryllium µg/L	Boron µg/L	Cadmium µg/L	Chromium µg/L	Cobalt µg/L	Copper µg/L	Lead µg/L	Lithium µg/L	Mercury µg/L	Molybdenum µg/L	Nickel µg/L	Selenium µg/L	Silver µg/L	Strontium µg/L	Thallium µg/L	Tin µg/L	Titanium µg/L	Uranium µg/L	Vanadium µg/L	Zinc µg/L	Zirconium µg/L
BH14-09	BH14-09-GW01-AD05	2014 03 12	383	< 6	101	7.6	31.9	115	2.76	108	< 1	0.13	70.8	< 0.2	< 100	0.064	< 2	1.12	1.28	< 0.4	8.8	< 0.02	1	4.2	0.1	< 0.04	362	< 0.1	< 10	< 10	1.8	< 10	5.7	< 1
	BH14-09-GW2-AD05	2014 08 18	391	16.2	94.1	291	38	77.7	2.63	105	< 1	0.46	86.3	< 0.2	< 100	0.034	< 2	0.69	0.74	< 0.4	7.4	< 0.02	< 2	2.2	< 0.2	< 0.04	323	< 0.1	< 10	< 10	1.15	< 10	< 10	< 1
	MW14-09-141031	2014 10 31	413	3.4	106	185	35.8	81.8	2.92	121	< 0.5	0.36	95.5	< 0.1	< 50	0.023	< 1	0.84	< 0.2	< 0.2	8	< 0.01	< 1	1.5	< 0.1	< 0.02	373	< 0.05	< 5	< 5	1.2	< 5	< 5	< 0.5
	BH14-09-6W03-AD05	2015 10 01	436	14.6	101	16.8	44.4	36.6	2.78	84.6	< 0.50	0.33	71.9	< 0.10	< 50	0.098	< 1.0	< 0.50	0.49	< 0.20	7.8	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	329	< 0.050	< 5.0	< 5.0	0.9	< 5.0	< 5.0	< 0.50
BH14-10	BH14-10-GW01-AD05	2014 03 11	425	< 6	106	2,900	39	179	3.39	107	< 1	1.11	249	< 0.2	< 100	< 0.02	< 2	0.64	1.4	0.26	14.1	< 0.02	2.2	2.3	0.13	< 0.04	417	< 0.1	< 10	< 10	2.09	< 10	6.1	< 1
	BH14-10-GW2-AD05	2014 08 13	367	6.6	92.9	1,870	32.8	115	2.19	66.6	< 1	0.43	87.5	< 0.2	< 100	0.019	< 2	0.53	0.48	< 0.4	8.2	< 0.02	< 2	1.8	< 0.2	< 0.04	301	< 0.1	< 10	< 10	0.77	< 10	6.2	< 1
	MW14-10-141030	2014 10 30	425	< 3	105	1,370	39.8	90.8	2.61	57.5	< 0.5	0.53	87.3	< 0.1	< 50	0.026	< 1	0.57	0.44	< 0.2	9.1	< 0.01	< 1	1.7	< 0.1	< 0.02	361	< 0.05	< 5	< 5	1.01	< 5	< 5	< 0.5
	BH14-10-GW03-AD05	2015 09 28	410	13.9	96	801	41.4	47.2	2.5	52.7	< 0.50	0.48	84.8	< 0.10	141	< 0.010	< 1.0	< 0.50	0.32	< 0.20	7.1	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	329	< 0.050	< 5.0	< 5.0	0.56	< 5.0	< 5.0	< 0.50
	MW14-10-170618	2017 06 18	673	< 2	167	404	62.2	271	3.06	34.7	0.4	0.3	86.1	< 0.01	8	0.15	< 0.5	6.93	< 0.2	< 0.05	10.8	0.02	1.04	11.8	< 0.5	< 0.02	601	0.02	< 0.05	1.1	5.06	< 0.5	4	< 0.1
BH14-11	BH14-11-GW01-AD05	2014 03 10	421	< 6	109	3,010	36.4	127	2.8	76.9	< 1	1.93	84.9	< 0.2	< 100	< 0.02	< 2	< 1	1.34	< 0.4	10.4	< 0.02	< 2	1	< 0.2	< 0.04	383	< 0.1	< 10	< 10	0.86	< 10	6.2	< 1
	BH14-11-GW2-AD05	2014 08 14	392	22.4	101	1,600	34.1	103	2.27	54.1	< 1	1.41	59.6	< 0.2	< 100	< 0.02	< 2	< 1	0.89	< 0.4	8.4	< 0.02	< 2	1.6	< 0.2	< 0.04	323	< 0.1	< 10	< 10	0.8	< 10	7.4	< 1
	MW14-11-141030	2014 10 30	433	14.6	111	1,300	37.8	78.5	2.74	62.9	< 0.5	0.98	82	< 0.1	< 50	0.011	< 1	< 0.5	0.46	< 0.2	9.1	< 0.01	< 1	1.3	< 0.1	< 0.02	368	< 0.05	< 5	< 5	0.95	< 5	6	< 0.5
	BH14-11-GW03-AD05	2015 09 28	418	14.6	100	948	40.8	62.9	2.59	65.9	< 0.50	0.79	81	< 0.10	118	< 0.010	< 1.0	< 0.50	< 0.20	< 0.20	9.7	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	329	< 0.050	< 5.0	< 5.0	0.79	< 5.0	< 5.0	< 0.50
	MW14-11-170618	2017 06 18	695	6	184	3,620	57.3	378	3.54	71.7	0.5	1.0	48.6	< 0.01	8	0.03	< 0.5	2.69	0.5	0.05	11.7	0.01	0.85	4.0	< 0.5	< 0.02	542	< 0.01	< 0.05	1.1	5.06	< 0.5	5	0.2
BH14-12	BH14-12-GW01-AD05	2014 03 09	416	< 6	94.7	< 10	43.6	10.8	2.59	36	< 1	< 0.2	135	< 0.2	< 100	0.027	< 2	< 1	1.38	< 0.4	9.1	< 0.02	< 2	1.1	< 0.2	< 0.04	371	< 0.1	< 10	< 10	0.9	< 10	5.3	< 1
	BH14-12-GW2-AD05	2014 08 17	369	5.9	84	24.3	38.7	8.5	2.37	23.7	< 1	0.25	112	< 0.2	< 100	0.017	1.1	< 1	1.38	< 0.4	7.9	< 0.02	< 2	2.2	0.1	< 0.04	301	< 0.1	< 10	< 10	0.7	< 10	5.3	< 1
	MW14-12-141101	2014 11 01	409	5.8	98.8	24.3	39.5	7.4	2.74	41.5	< 0.5	0.17	153	< 0.1	< 50	0.022	< 1	< 0.5	0.3	< 0.2	10.1	< 0.01	< 1	1.5	< 0.1	< 0.02	373	< 0.05	< 5	< 5	0.83	< 5	< 5	< 0.5
BH14-13	BH14-13-GW01-AD05	2014 03 10	383	< 6	87.2	< 10	40	< 2	1.76	2.47	< 1	< 0.2	32.5	< 0.2	< 100	< 0.02	< 2	< 1	1.12	< 0.4	7.2	< 0.02	< 2	< 2	2.83	< 0.04	301	< 0.1	< 10	< 10	1.63	< 10	5.5	< 1
	BH14-13-GW2-AD05	2014 08 18	360	4.3	76.8	20.5	40.8	< 2	1.76	2.22	< 1	0.15	31.6	< 0.2	< 100	< 0.02	3.1	< 1	1.46	< 0.4	7.1	< 0.02	1.1	3	1.78	< 0.04	290	< 0.1	< 10	< 10	1.7	< 10	< 10	< 1
	MW14-13-141031	2014 10 31	402	4	90.4	7.4	42.7	< 1	1.95	2.63	< 0.5	< 0.1	33.2	< 0.1	< 50	< 0.01	< 1	< 0.5	0.3	< 0.2	7.9	< 0.01	< 1	< 1	1.32	< 0.02	323	< 0.05	< 5	< 5	1.79	< 5	< 5	< 0.5
BH14-14	BH14-14-GW01-AD05	2014 03 09	315	4.9	68.4	8.4	34.9	8.9	1.6	4.1	< 1	0.11	40.3	< 0.2	< 100	0.015	< 2	< 1	1.29	< 0.4	7.1	< 0.02	< 2	< 2	0.27	< 0.04	253	< 0.1	< 10	< 10	1.44	< 10	5.3	< 1
	BH14-14-GW2-AD05	2014 08 19	327	3.6	70.6	7.5	36.5	< 2	1.81	9.16	< 1	0.22	40.4	< 0.2	< 100	< 0.02	< 2	< 1	1.15	< 0.4	7.1	< 0.02	< 2	< 2	0.28	< 0.04	238	< 0.1	< 10	< 10	1.49	< 10	< 10	< 1
	MW14-14-141030	2014 10 30	321	< 3	70.7	< 5	35.2	< 1	1.8	5.76	< 0.5	0.12	42.7	< 0.1	< 50	0.01	< 1	< 0.5	0.39	< 0.2	7.6	< 0.01	< 1	< 1	0.37	< 0.02	263	< 0.05	< 5	< 5	1.53	< 5	< 5	< 0.5
BH14-15	BH14-15-GW01-AD05	2014 03 10	343	< 6	83.7	2,000	32.6	121	1.94	8.83	< 1	2	86.2	< 0.2	< 100	< 0.02	< 2	0.78	1.21	< 0.4	8.2	< 0.02	< 2	1.2	< 0.2	< 0.04	317	< 0.1	< 10	< 10	0.82	< 10	5.5	< 1
	BH14-15A-GW01-AD05	Duplicate	343	6.3	83.8	2,000	32.4	123	1.93	8.78	< 1	2.02	86.9	< 0.2	< 100	0.069	< 2	0.8	1.56	< 0.4	8.2	< 0.02	< 2	1.9	< 0.2	0.028	318	< 0.1	< 10	< 10	0.8	< 10	15	< 1
	QA/QC RPD%		0	*	0	0	1	2	1	*	*	1	1	*	*	*	*	3	25	*	*	*	*	45	*	*	0	*	*	*	*	*	93	*
	BH14-15-GW2-AD05	2014 08 14	333	65.5	77.3	2,470	33.9	58.9	1.91	9.92	< 1	1.99	66.3	< 0.2	< 100	< 0.02	< 2	< 1	1.1	< 0.4	6.8	< 0.02	1	1.6	< 0.2	< 0.04	275	< 0.1	< 10	7.4	0.52	< 10	7.4	< 1
	BH14-A-GW2-AD05	Duplicate	332	10	79.1	2,370	32.6	55.5	1.82	9.73	< 1	1.99	66.3	< 0.2	< 100	< 0.02	< 2	< 1	0.42	< 0.4	7.1	< 0.02	1.1	1.2	< 0.2	< 0.04	278	< 0.1	< 10	< 10	0.53	< 10	6	< 1
	QA/QC RPD%		0	147	2	4	4	6	5	*	*	0	0	*	*	*	*	*	*	*	*	*	10	29	*	*	1	*	*	*	*	*	21	*
	MW14-15-141029	2014 10 29	362	< 3	84.5	1,540	36.7	55.6	1.81	4.96	< 0.5	1.42	65.9	< 0.1	< 50	< 0.01	< 1	< 0.5	0.31	< 0.2	7	< 0.01	< 1	< 1	< 0.1	< 0.02	298	< 0.05	< 5	< 5	1.06	< 5	< 5	< 0.5
	MW14-A-141029	Duplicate	344	6	81.6	1,490	34.2	53.4	1.78	4.99	< 0.5	1.48	63.5	< 0.1	< 50	< 0.01	< 1	< 0.5	0.25	< 0.2	7.3	< 0.01	< 1	< 1	< 0.1	< 0.02	291	< 0.05	< 5	< 5	1.02	< 5	< 5	< 0.5
	QA/QC RPD%		5	*	3	3	7	4	2	*	*	4	4	*	*	*	*	*	*	*	*	*	*	*	*	*	2	*	*	*	4	*	*	*
BH14-16	BH14-16-GW01-AD05	2014 03 09	354	5.3	82.6	22.7	35.9	41.1	1.76	7.9	< 1	< 0.2	71	< 0.2	< 100	0.022	< 2	0.63	1.55	< 0.4	5.9	0.02	< 2	1.3	3.1	< 0.04	292	< 0.1	< 10	< 10	1.37	< 10	6.5	< 1
	BH14-16-GW2-AD05	2014 08 19	345	42.8	82.2	53.7	33.8	< 2	2.89	10.1	< 1	0.23	89	< 0.2	< 100	0.016	< 2	< 1	1.08	< 0.4	6.3	< 0.02	< 2	< 2	2.86	< 0.04	294	< 0.1	< 10	< 10	2	< 10	< 10	< 1
	MW14-16-141031	2014 10 31	347	3.8	82.7	20.8	34	< 1	2.01	5.04	< 0.5	0.11	75.7	< 0.1	< 50	< 0.01	< 1	< 0.5	0.36	< 0.2	< 5	< 0.01	< 1	< 1	2.14	< 0.02	285	< 0.05	< 5	< 5	1.87	< 5	< 5	< 0.5
BH14-18	BH14-18-GW01-AD05	2014 03 13	370	< 6	92.6	1,110	33.8	122	1.99	7.68	< 1	0.7	70.2	< 0.2	< 100	< 0.02	< 2	1.37	1.16	< 0.4	9	< 0.02	< 2	1.3	< 0.2	< 0.04	322	< 0.1	< 10	< 10	1	< 10	6.2	< 1
	BH14-18-GW2-AD05	2014 08 17	367	6.3	82.8	2,160	38.8	73.4	2.15	6.9	< 1	0.69	88.4	< 0.2	< 100	< 0.02	< 2	< 1	0.27	< 0.4	8.4	< 0.02	< 2	1.3	< 0.2	< 0.04	304	< 0.1	< 10	< 10	0.62	< 10	< 10	< 1
	MW14-18-141029	2014 10 29	374	3.1	89.6	2,250	36.5	70.4	1.92	7.03	< 0.5	0.75	92.7	< 0.1	< 50	< 0.01	< 1	< 0.5	< 0.2	< 0.2	7.7	< 0.01	< 1	< 1	< 0.1	< 0.02	310	< 0.05	< 5	< 5	0.69	< 5	< 5	< 0.5
	BH14-18-GW03-AD05	2015 09 28	357	16.3	80.2	1,720	38	62.5	1.82	7.51	< 0.50	1.11	86.5	< 0.10	81	< 0.010	< 1.0	< 0.50	< 0.20	< 0.20	7.6	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	293	< 0.050	< 5.0	< 5.0	0.66	< 5.0	5.5	< 0.50
BH14-19	BH14-19-GW01-AD05	2014 03 10	372	5	95.2	30.6	32.6	33.6	2.63	78.3	< 1	< 0.2	97.6	< 0.2	< 100	0.03	< 2	0.62	1.57	< 0.4	7.8	< 0.02	< 2	1.8	0.14	< 0.04	343	< 0.1	< 10	< 10	1.66	< 10	5.4	< 1
	MW14-19-141031	2014 10 31	417	3.5	106	11.2	36.8	25.5	2.84	109	< 0.5	0.11	126	< 0.1	< 50	0.038	< 1	< 0.5	0.47	< 0.2	8.3	< 0.01	< 1	2.6	< 0.1	< 0.02	369	< 0.05	< 5	< 5	1.91	< 5	6.3	< 0.5
BH14-20	BH14-20-GW01-AD05	2014 03 10	405	< 6	106	7,110	34.4	440	2.53	11.8	< 1	0.3	112	< 0.2	< 100	0.022	< 2	1.33	0.92	< 0.4	12.4	< 0.02	< 2	1.2	< 0.2	< 0.04	396	< 0.1	< 10	< 10	0.34	< 10	6.8	< 1
	BH14-20-GW2-AD05	2014 08 14	282	< 6	58.8	133	32.9	5.6	1.88	7.63	< 1	0.42	84.8	< 0.2	< 100	< 0.02	< 2	< 1	0.45	< 0.4	9.8	< 0.02	< 2	< 2	< 0.2	< 0.04	290	< 0.1	< 10	< 10	0.38	< 10	< 10	< 1
	MW14-20-141031	2014 10 31	352	3.7	85.7	2,180	33.5	128	2.07	11.3	< 0.5	1.28	96.4	< 0.1	< 50	< 0.01	< 1	< 0.5	< 0.2	< 0.2	8.2	< 0.01	< 1	< 1	< 0.1	< 0.02	301	< 0.05	< 5	< 5	0.41	< 5	< 5	< 0.5
	BH14-20-6W03-AD05	2015 10 01	382	10.5	86.4	1,540	40.4	101	1.99	11	< 0.50	0.29	77.1	< 0.10	< 50	< 0.010	< 1.0	< 0.50	0.24	< 0.20	5.8	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	307	< 0.050	< 5.0	< 5.0	0.15	< 5.0	14.4	< 0.50
BH14-22	BH14-22-GW01-AD05	2014 03 11	323	< 6	78.2	5.4	30.9	12.2	2.72	125	< 1	< 0.2	90.5	< 0.2	< 100	0.028	< 2	< 1	1.36	< 0.4	8.6	< 0.02	< 2	< 2	1.04	< 0.04	290	< 0.1	< 10	< 10	1.62	< 10	5.9	< 1
	BH14-22A-GW01-AD05	Duplicate	327	3.7	78.4	6.3	31.8	12.9	2.79	128	< 1	< 0.2	90.6	< 0.2	< 100	0.029	< 2	< 1	1.52	< 0.4	8.6	< 0.02	< 2	< 2	0.97	< 0.04	290	< 0.1	< 10	< 10	1.7	< 10	6	< 1
	QA/QC RPD%		1	*	0	*	3	6	3	*	*	*	0	*	*	*	*	*	11	*	*	*	*	*	7	*	0	*	*	*	5	*	2	*
	BH14-22-GW2-AD05	2014 08 15	322	37	74.4	45	33.2	< 2	1.93	69.3	< 1	< 0.2	63.3	< 0.2	< 100	0.018	< 2	< 1	2.46	< 0.4	6.4	< 0.02	< 2	< 2	0.99	< 0.04	261	< 0.1	< 10	< 10	1.53	< 10	< 10	< 1
	MW14-22-141030	2014 10 30	359	3	86.3	< 5	34.9	< 1	2.79	88.7	< 0.5	< 0.1	79.1	< 0.1	< 50	0.014	< 1	< 0.5	< 0.2	< 0.2	7.3	< 0.01	< 1	< 1	0.84	< 0.02	294	< 0.05	< 5	< 5	1.61	< 5	< 5	< 0.5
BH14-23	BH14-23-GW01-AD05	2014 03 11	397	< 6	101	1,200	35	774	2.94	83	< 1	0.14	77.3	< 0.2	< 100	0.077	< 2	6.32	1.08	< 0.4	8.1	< 0.02	4.3	4.9	0.32	< 0.04	420	< 0.1	< 10	< 10	1.45	< 10	6.2	< 1
	BH14-23-GW2-AD05	2014 08 15	393	17.5	94.2	24.2	38.4	12.5	2.3	98.6	< 1	0.13	90.6	< 0.2	< 100	0.056	< 2	0.95	2.48	< 0.4	9.2	< 0.02	< 2	1.4	0.25	< 0.04	341	< 0.1	< 10	< 10	1.46	< 10	5.2	< 1
	MW14-23-141030	2014 10 30	415	4.1	105	5.2	37.1	6.3	2.4	77.6	< 0.5	< 0.1	90	< 0.1	< 50	0.041	< 1	1.24	< 0.2	< 0.2	8.4	< 0.01	< 1	< 1	0.32	< 0.02	363	< 0.05	< 5	< 5	1.68	< 5	< 5	< 0.5
	MW14-B-141030	Duplicate	397	3.1	99.1	< 5	36.3	6.1	2.44	75.3	< 0.5	< 0.1	87.2	< 0.1	< 50	0.039	< 1	1.2	0.31	< 0.2	8.1	< 0.01	< 1	< 1	0.27	< 0.02	348	< 0.05	< 5	< 5	1.64	< 5	< 5	< 0.5
	QA/QC RPD%		4	*	6	*	2	3	2	*	*	*	3	*	*	*	*	3	*	*	*	*	*	*	*	*	4	*	*	*	2	*	*	*
BH14-24	BH14-24-GW01-AD05	2014 03 11	321	3.3	70.3	5.6	35.4	136	1.83	10.8	< 1	0.17	50.7	< 0.2	< 100	0.081	< 2	0.53	1.31	< 0.4	7.7	< 0.02	2.2	2.9	0.29	< 0.04	274	< 0.1	< 10	< 10	1.68	< 10	7.7	< 1
	BH14-24-GW2-AD05	2014 08 16	326	10.9	68	20.6	37.9	2.1	1.82	7.3	< 1	0.18	45.8	< 0.2	< 100	0.018	1.2	< 1	7.68	< 0.4	8.1	< 0.02	1	1.6	0.28	< 0.04	274	< 0.1	< 10	< 10	1.5	< 10	6.1	< 1
	BH14-C-GW2-AD05	Duplicate	322	5.9	68.7	17	36.6	2	1.81	7	< 1	0.15	46.9	< 0.2	< 100	0.02	1	< 1	1.22	< 0.4	8.8	< 0.02	< 2	1.6	0.34	< 0.04	264	< 0.1	< 10	< 10	1.54	< 10	< 10	< 1
	QA/QC RPD%		1	60	1	*	3	5	1	*	*	*	2	*	*	*	*	*	145	*	*	*	*	0	*	*	4	*	*	*	3	*	*	*
	MW14-24-141030	2014 10 30	336	3.1	72.9	< 5	37.4	< 1	1.92	5.64	< 0.5	0.2	47.7	< 0.1	< 50	0.015	< 1	< 0.5	< 0.2	< 0.2	7.7	< 0.01	< 1	< 1	0.27	< 0.02	274	< 0.05	< 5	< 5	1.57	< 5	< 5	< 0.5
	MW14-C-141030	Duplicate	321	3.5	71.1	< 5	34.9	< 1	1.83	5.29	< 0.5	0.21	45.7	< 0.1	< 50	0.015	< 1	< 0.5	0.3	< 0.2	7.4	< 0.01	< 1	< 1	0.3	< 0.02	267	< 0.05	< 5	< 5	1.51	< 5	< 5	< 0.5
	QA/QC RPD%		5	*	3	*	7	*	5	*	*	*	4	*	*	*	*	*	*	*	*	*	*	*	*	*	3	*	*	*	4	*	*	*
Federal Guideline																																		
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	100	n/a	300	n/a	50	n/a	200	6	10	1,000	n/a	5,000	5	50	n/a	1,000	10	n/a	1	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	20	n/a	5,000	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	100[d]	n/a	300	n/a	n/a	n/a	n/a	2,000	5	2,900	5.3	1,500	0.37[e]	8.9	n/a	2 - 4[e]	1 - 7[e]	n/a	0.026	73	25 - 150[e]	1	0.25	n/a	0.8	n/a	100	15	n/a	30	n/a
BC Standard																																		
CSR Drinking Water (DW)			n/a	9,500	n/a	6,500	n/a	1,500	n/a	200	6	10	1,000	8	5,000	5	50	20[f]	1,500	10	8	1	250	80	10	20	2,500	n/a	2,500	n/a	20	20	3,000	n/a
CSR Aquatic Life (AW)[c]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90	50	10,000	1.5	12,000	0.5 - 4[e]	10	40	20 - 90[e]	40 - 160[e]	n/a	0.25	10,000	250 - 1,500[e]	20	0.5 - 15[e]	n/a	3	n/a	1,000	85	n/a	75 - 2,400[e]	n/a

All terms defined within the body of SNC-Lavalin's report.

Associated AGAT file(s): 17N229446, 17Y227151.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[c] Standard to protect freshwater aquatic life.

[d] Guideline is pH dependent; based on available data, site pH is > 6.5.

[e] Standard varies with hardness.

[f] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 21 (Cont'd): Summary of Analytical Results for Dissolved Metals in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Physical	Geochemical Indicators							Dissolved Metals																							
			Hardness mg/L	Aluminum µg/L	Calcium mg/L	Iron µg/L	Magnesium mg/L	Manganese µg/L	Potassium mg/L	Sodium mg/L	Antimony µg/L	Arsenic µg/L	Barium µg/L	Beryllium µg/L	Boron µg/L	Cadmium µg/L	Chromium µg/L	Cobalt µg/L	Copper µg/L	Lead µg/L	Lithium µg/L	Mercury µg/L	Molybdenum µg/L	Nickel µg/L	Selenium µg/L	Silver µg/L	Strontium µg/L	Thallium µg/L	Tin µg/L	Titanium µg/L	Uranium µg/L	Vanadium µg/L	Zinc µg/L	Zirconium µg/L
BH14-25	BH14-25-GW01-AD05	2014 03 11	362	< 6	88.3	9.9	34.5	**222**	2.11	42.3	< 1	0.47	103	< 0.2	< 100	0.283	< 2	0.61	1.19	< 0.4	7.5	< 0.02	1.1	4.6	0.15	< 0.04	305	0.497	< 10	< 10	1.33	< 10	6.6	< 1
	BH14-25-GW2-AD05	2014 08 16	354	9.6	82	89.2	36.3	**207**	2.08	39.7	< 1	0.74	122	< 0.2	< 100	0.052	3.1	< 1	***5.19***	< 0.4	8	< 0.02	5.8	8.9	< 0.2	< 0.04	303	0.063	< 10	< 10	1.37	< 10	< 10	< 1
BH14-26	BH14-26-GW01-AD05	2014 03 13	383	< 6	95.8	< 10	34.9	18	2.86	117	< 1	< 0.2	86.6	< 0.2	< 100	0.043	< 2	< 1	1.37	< 0.4	**9.3**	< 0.02	< 2	1	< 0.2	< 0.04	354	< 0.1	< 10	< 10	0.83	< 10	5.5	< 1
	BH14-26-GW2-AD05	2014 08 17	367	***136***	89.4	***452***	34.9	**192**	2.81	74.2	< 1	0.37	97.8	< 0.2	< 100	0.049	3.7	0.59	***4.2***	0.3	**9.2**	< 0.02	< 2	3	< 0.2	< 0.04	335	< 0.1	< 10	7.2	0.74	< 10	7.6	< 1
	MW14-26-141101	2014 11 01	442	< 3	112	7.5	39.1	**130**	2.93	89.9	< 0.5	< 0.1	105	< 0.1	< 50	0.048	< 1	< 0.5	0.33	< 0.2	**9.5**	< 0.01	< 1	2.4	< 0.1	< 0.02	385	< 0.05	< 5	< 5	0.72	< 5	< 5	< 0.5
	BH14-26-6W03-AD05	2015 10 01	411	9.1	98.8	9.1	39.9	24.8	2.52	75.3	< 0.50	0.22	90.7	< 0.10	< 50	0.026	< 1.0	< 0.50	0.27	< 0.20	**8.6**	< 0.010	< 1.0	< 1.0	< 0.10	< 0.020	344	< 0.050	< 5.0	< 5.0	0.71	< 5.0	< 5.0	< 0.50
BH14-27	BH14-27-GW01-AD05	2014 03 12	336	< 6	77.5	< 10	34.6	**371**	1.9	12.7	< 1	0.15	48.9	< 0.2	< 100	0.028	< 2	0.58	1.24	< 0.4	6.8	< 0.02	1.6	1.9	***2.06***	< 0.04	271	< 0.1	< 10	< 10	1.67	< 10	5.6	< 1
	BH14-27-GW2-AD05	2014 08 15	353	4.1	79.6	7.2	37.5	2.4	1.76	9.66	< 1	0.18	41.1	< 0.2	< 100	< 0.02	< 2	< 1	1.81	< 0.4	7.8	< 0.02	< 2	< 2	***1.8***	< 0.04	288	< 0.1	< 10	< 10	1.56	< 10	< 10	< 1
	MW14-27-141031	2014 10 31	358	< 3	82.5	< 5	36.9	< 1	1.96	11	< 0.5	0.19	40.3	< 0.1	< 50	< 0.01	< 1	< 0.5	< 0.2	< 0.2	6.9	< 0.01	< 1	< 1	***1.86***	< 0.02	277	< 0.05	< 5	< 5	1.69	< 5	< 5	< 0.5
BH14-28	BH14-28-GW01-AD05	2014 03 12	349	< 6	83.4	7.2	34.2	**202**	2.09	37.2	< 1	< 0.2	58.3	< 0.2	< 100	0.033	< 2	0.63	1.28	< 0.4	7.5	< 0.02	< 2	1.1	***2.23***	< 0.04	315	< 0.1	< 10	< 10	1.56	< 10	5.7	< 1
	BH14-28-GW2-AD05	2014 08 16	364	13.1	85.5	20.9	36.7	< 2	2.03	34.9	< 1	< 0.2	61	< 0.2	< 100	< 0.02	< 2	< 1	2.85	< 0.4	7.2	< 0.02	< 2	< 2	***1.76***	< 0.04	313	< 0.1	< 10	< 10	1.67	< 10	5.2	< 1
	MW14-28-141031	2014 10 31	363	< 3	88.7	< 5	34.4	< 1	2.32	48.6	< 0.5	< 0.1	65.3	< 0.1	< 50	< 0.01	< 1	< 0.5	< 0.2	< 0.2	7	< 0.01	< 1	< 1	***1.97***	< 0.02	320	< 0.05	< 5	< 5	1.74	< 5	< 5	< 0.5
Tap	Tap (2006)	2006 08 20	363	-	71.4	-	33.5	-	1.7	3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tap (2007)	2007 08 22	365	-	81	-	39.1	-	1.7	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR70	Duplicate	-	-	76.3	-	37	-	1.7	1.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	-	6	-	6	-	0	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tap (2008)	2008 10 06	-	-	84.3	-	39.9	-	1.3	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2458-0812-TW1	2012 08 08	< 1	-	< 0.05	-	< 0.05	-	0.09	159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tap FS	Tap FS	2011 09 16	0.54	-	0.215	-	< 0.1	-	< 2	167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR86	Duplicate	0.53	-	0.212	-	< 0.1	-	< 2	166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		2	-	*	-	*	-	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tap4	TAP 4-AD05	2013 07 26	< 1	< 6	< 0.1	19.6	< 0.1	< 2	< 0.1	163	< 1	0.24	< 2	< 0.2	< 100	< 0.02	< 2	< 1	0.3	< 0.4	< 10[a]	< 0.1[a]	< 2	< 2	< 0.2	< 0.04	< 2	< 0.1	< 10	< 10	1.68	< 10	< 10	< 1
Well	Well (2004)	2004 12 08	-	-	59.2	-	27.6	-	1	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Well (2005)	2005 11 06	346	-	84.9	-	39.3	-	1.8	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR23	Duplicate	339	-	85.4	-	39.7	-	1.7	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		2	-	1	-	1	-	6	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Well (2006)	2006 08 20	371	-	75.1	-	36.7	-	1.6	2.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR60	Duplicate	340	-	72.7	-	35.3	-	1.5	1.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		9	-	3	-	4	-	6	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Well (2008)	2008 10 06	-	-	84.1	-	39.9	-	1.3	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Well (2009)	2009 10 19	359	-	82.1	-	39.7	-	1.6	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR83	Duplicate	348	-	82.1	-	39.5	-	1.6	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		3	-	0	-	1	-	0	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WELL (2010)	2010 09 08	364	-	81.2	-	39.3	-	< 2	< 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	GR2	Duplicate	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Well (2011)	2011 09 16	356	-	81.5	-	37.1	-	2	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2458-0812-DW1	2012 08 08	337	-	74	-	37	-	1.67	1.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2458-0812-DW101	Duplicate	332	-	72.5	-	36.6	-	1.67	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		1	-	2	-	1	-	0	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WELL-AD05	2013 07 26	370	< 6	82.2	***1,740***	39.9	49.9	2.12	2.02	< 1	1.14	31.4	< 0.2	< 100	< 0.02	< 2	< 1	< 0.4	< 0.4	7.8	< 0.1[a]	< 2	< 2	< 0.2	< 0.04	267	< 0.1	< 10	< 10	1.75	< 10	< 10	< 1
Federal Guideline																																		
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	100	n/a	300	n/a	50	n/a	200	6	10	1,000	n/a	5,000	5	50	n/a	1,000	10	n/a	1	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	20	n/a	5,000	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	100[d]	n/a	300	n/a	n/a	n/a	n/a	2,000	5	2,900	5.3	1,500	0.37[e]	8.9	n/a	2 - 4[e]	1 - 7[e]	n/a	0.026	73	25 - 150[e]	1	0.25	n/a	0.8	n/a	100	15	n/a	30	n/a
BC Standard																																		
CSR Drinking Water (DW)			n/a	9,500	n/a	6,500	n/a	1,500	n/a	200	6	10	1,000	8	5,000	5	50	20[f]	1,500	10	8	1	250	80	10	20	2,500	n/a	2,500	n/a	20	20	3,000	n/a
CSR Aquatic Life (AW)[c]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90	50	10,000	1.5	12,000	0.5 - 4[e]	10	40	20 - 90[e]	40 - 160[e]	n/a	0.25	10,000	250 - 1,500[e]	20	0.5 - 15[e]	n/a	3	n/a	1,000	85	n/a	75 - 2,400[e]	n/a

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

Associated AGAT file(s): 17N229446, 17Y227151.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.
[d] Guideline is pH dependent; based on available data, site pH is > 6.5.
[e] Standard varies with hardness.
[f] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE Concentration greater than CSR Drinking Water (DW) standard
SHADOW Concentration greater than CSR Aquatic Life (AW) standard

TABLE 22: Summary of Analytical Results for Total Metals in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Phys Hardness mg/L	Total Metals Aluminum mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chromium mg/L	Cobalt mg/L	Copper mg/L	Iron mg/L	Lead mg/L	Lithium mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Molybdenum mg/L	Nickel mg/L	Potassium mg/L	Selenium mg/L	Silver mg/L	Sodium mg/L	Strontium mg/L	Thallium mg/L	Tin mg/L	Titanium mg/L	Uranium mg/L	Vanadium mg/L	Zinc mg/L	Zirconium mg/L
BH113M	BH113M (2006)	2006 08 20	349	0.006	< 0.001	< 0.001	0.05	< 0.001	< 0.05	< 0.0002	77.8	< 0.001	< 0.001	0.003	< 0.05	< 0.001	**0.01**	33	0.007	< 0.02[a]	0.0006	< 0.001	1.8	< 0.001	< 0.00025	7.2	0.28	< 0.000100	< 0.001	< 0.001	0.0015	< 0.001	0.019	< 0.01
	BH113M (2007)	2007 08 22	298	-	-	-	-	-	-	-	72.8	-	-	-	-	-	-	32.1	-	-	-	-	-	-	-	4.92	-	-	-	-	-	-	-	-
	GR71	Duplicate	318	-	-	-	-	-	-	-	74.5	-	-	-	-	-	-	31.9	-	-	-	-	-	-	-	6.72	-	-	-	-	-	-	-	-
	QA/QC RPD%		6	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-
	BH113M (2008)	2008 10 06	-	-	-	-	-	-	-	-	74.6	-	-	-	-	-	-	34.3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
	GR81	Duplicate	-	-	-	-	-	-	-	-	74.7	-	-	-	-	-	-	34.4	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
	QA/QC RPD%		-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
	BH113M (2009)	2009 10 19	336	-	-	-	-	-	-	-	69.9	-	-	-	-	-	-	36.5	-	-	-	-	1.9	-	-	2.6	-	-	-	-	-	-	-	-
	BH113M (2010)	2010 09 08	340	-	-	-	-	-	-	-	79.6	-	-	-	-	-	-	36.4	-	-	-	-	2.5	-	-	2.5	-	-	-	-	-	-	-	-
BH118M	BH118M (2009)	2009 10 19	395	-	-	-	-	-	-	-	90.9	-	-	-	-	-	-	38.5	-	-	-	-	2.4	-	-	86.8	-	-	-	-	-	-	-	-
	GR82	Duplicate	401	-	-	-	-	-	-	-	90.6	-	-	-	-	-	-	38.3	-	-	-	-	2.4	-	-	87	-	-	-	-	-	-	-	-
	QA/QC RPD%		2	-	-	-	-	-	-	-	0	-	-	-	-	-	-	1	-	-	-	-	0	-	-	0	-	-	-	-	-	-	-	-
	BH118M (2010)	2010 09 08	398	-	-	-	-	-	-	-	101	-	-	-	-	-	-	36.8	-	-	-	-	2	-	-	52.4	-	-	-	-	-	-	-	-
	GR1	Duplicate	396	-	-	-	-	-	-	-	98.8	-	-	-	-	-	-	36.6	-	-	-	-	2	-	-	52	-	-	-	-	-	-	-	-
	QA/QC RPD%		1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	0	-	-	1	-	-	-	-	-	-	-	-
	BH118M (2011)	2011 09 16	454	-	-	-	-	-	-	-	117	-	-	-	-	-	-	43.7	-	-	-	-	-	-	-	187	-	-	-	-	-	-	-	-
BH119M	BH119M (2009)	2009 10 19	389	-	-	-	-	-	-	-	93.9	-	-	-	-	-	-	36.7	**0.055**	-	-	-	2.6	-	-	106	-	-	-	-	-	-	-	-
	BH119M (2010)	2010 09 08	405	-	-	-	-	-	-	-	102	-	-	-	-	-	-	37.3	-	-	-	-	2.9	-	-	125	-	-	-	-	-	-	-	-
BH120M	BH120M (2009)	2009 10 19	327	-	-	-	-	-	-	-	72.2	-	-	-	-	-	-	36.2	-	-	-	-	1.7	-	-	4.9	-	-	-	-	-	-	-	-
	BH120M (2010)	2010 09 08	358	-	-	-	-	-	-	-	80.7	-	-	-	-	-	-	38.3	-	-	-	-	2.1	-	-	4.7	-	-	-	-	-	-	-	-
BH13-04	BH13-04	2013 10 29	353	-	-	-	-	-	-	-	87.5	-	-	-	-	-	-	39.9	-	-	-	-	-	-	-	5.22	-	-	-	-	-	-	-	-
BH13-05	BH13-05	2013 10 29	381	-	-	-	-	-	-	-	98	-	-	-	-	-	-	37.8	-	-	-	-	-	-	-	114	-	-	-	-	-	-	-	-
	DUP 1	Duplicate	378	-	-	-	-	-	-	-	100	-	-	-	-	-	-	38.1	-	-	-	-	-	-	-	115	-	-	-	-	-	-	-	-
	QA/QC RPD%		1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
BH13-06	BH13-06	2013 10 29	784	-	-	-	-	-	-	-	227	-	-	-	-	-	-	96.3	-	-	-	-	-	-	-	**241**	-	-	-	-	-	-	-	-
BH13-07	BH13-07	2013 10 29	430	-	-	-	-	-	-	-	142	-	-	-	-	-	-	61	-	-	-	-	-	-	-	46.1	-	-	-	-	-	-	-	-
BH13-08	BH13-08-GW01-AD05	2014 03 11	351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000041***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-09	BH14-09-GW01-AD05	2014 03 12	383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000064***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-10	BH14-10-GW01-AD05	2014 03 11	425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PUMPTEST	2014 08 14	-	0.0061	< 0.00050	0.0007	0.0882	< 0.00010	< 0.05	***0.000042***	95.3	< 0.0010	< 0.00050	< 0.00050	***1.86***	< 0.00020	**0.0096**	36	**0.119**	< 0.000010	< 0.0010	0.0014	2.53	< 0.00010	< 0.000020	72.1	0.306	< 0.000050	< 0.0050	< 0.0050	0.00083	< 0.0050	< 0.0050	< 0.00050
BH14-11	BH14-11-GW01-AD05	2014 03 10	421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-12	BH14-12-GW01-AD05	2014 03 09	416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000654***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-13	BH14-13-GW01-AD05	2014 03 10	383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000078***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-14	BH14-14-GW01-AD05	2014 03 09	315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000056***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-15	BH14-15-GW01-AD05	2014 03 10	343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH14-15A-GW01-AD05	Duplicate	343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-16	BH14-16-GW01-AD05	2014 03 09	354	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000344***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-18	BH14-18-GW01-AD05	2014 03 13	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-19	BH14-19-GW01-AD05	2014 03 10	372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000091***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-20	BH14-20-GW01-AD05	2014 03 10	405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000013***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-22	BH14-22-GW01-AD05	2014 03 11	323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	BH14-22A-GW01-AD05	Duplicate	327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QA/QC RPD%		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-23	BH14-23-GW01-AD05	2014 03 11	397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000032***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-24	BH14-24-GW01-AD05	2014 03 11	321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000814***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-25	BH14-25-GW01-AD05	2014 03 11	362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-26	BH14-26-GW01-AD05	2014 03 13	383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000162***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-27	BH14-27-GW01-AD05	2014 03 12	336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***0.000092***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14-28	BH14-28-GW01-AD05	2014 03 12	349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tap	Tap (2006)	2006 08 20	363	< 0.005	< 0.001	< 0.001	0.025	< 0.001	< 0.05	< 0.0002	82.3	< 0.001	< 0.001	< 0.001	***0.82***	< 0.001	0.007	38.9	0.047	< 0.02[a]	0.0008	< 0.001	1.6	< 0.001	< 0.00025	1.9	0.23	< 0.000100	< 0.001	< 0.001	0.0015	< 0.001	< 0.005	< 0.01
	Tap (2007)	2007 08 22	367	0.016	< 0.001	0.001	0.029	< 0.001	< 0.05	< 0.0002	81.4	< 0.001	< 0.001	< 0.001	***1.38***	< 0.001	-	39.8	**0.052**	< 0.00002	0.0008	< 0.001	-	< 0.001	< 0.00025	2.54	0.26	< 0.0001	-	< 0.001	0.0016	-	< 0.005	-
	GR70	Duplicate	-	< 0.005	< 0.001	0.001	0.027	< 0.001	< 0.05	< 0.0002	80.5	< 0.001	< 0.001	< 0.001	***1.3***	< 0.001	-	39.8	0.048	< 0.00002	0.0009	< 0.001	-	< 0.001	< 0.00025	2.27	0.24	< 0.0001	-	< 0.001	0.0016	-	< 0.005	-
	QA/QC RPD%		-	*	*	0	7	*	*	*	1	*	*	*	6	*	-	0	*	*	*	*	-	*	*	11	8	*	-	*	*	-	*	-
	Tap (2008)	2008 10 06	-	-	-	-	-	-	-	-	79.3	-	-	-	-	-	-	37.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2458-0812-TW1	2012 08 08	< 0.1	0.002	< 0.00005	0.0005	0.0002	< 0.00005	0.006	0.00001	< 0.05	< 0.0005	< 0.00005	***0.0054***	0.04	0.00032	< 0.0001	< 0.05	< 0.001	0.000003	0.0009	0.0007	-	< 0.0003	< 0.00001	157	-	< 0.00001	-	< 0.001	0.00137	< 0.0005	0.009	-
Tap FS	Tap FS	2011 09 16	0.54	< 0.005	< 0.0005	< 0.0005	< 0.02	< 0.001	< 0.1	< 0.000017	< 0.1	< 0.001	< 0.0003	0.0018	< 0.03	< 0.0005	-	< 0.1	0.00035	< 0.00001	< 0.001	< 0.001	-	< 0.001	< 0.00002	172	< 0.005	< 0.0002	< 0.0005	< 0.01	0.00127	< 0.001	0.0063	-
	GR86	Duplicate	0.53	< 0.005	< 0.0005	< 0.0005	< 0.02	< 0.001	< 0.1	< 0.000017	< 0.1	< 0.001	< 0.0003	0.0017	< 0.03	< 0.0005	-	< 0.1	0.00034	< 0.00001	< 0.001	< 0.001	-	< 0.001	< 0.00002	165	< 0.005	< 0.0002	< 0.0005	< 0.01	0.00124	< 0.001	0.0061	-
	QA/QC RPD%		2	*	*	*	*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	-	*	*	4	*	*	*	*	*	*	*	-
Federal Guideline																																		
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	0.1	0.006	0.01	1	n/a	5	0.005	n/a	0.05	n/a	1	0.3	0.01	n/a	n/a	0.05	0.001	n/a	n/a	n/a	0.05	n/a	200	n/a	n/a	n/a	n/a	0.02	n/a	5	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	0.1[d]	2	0.005	2.9	0.0053	1.5	0.00004 - 0.00037[e]	n/a	0.0089	n/a	0.002 - 0.004[e]	0.3	0.001 - 0.007[e]	n/a	n/a	n/a	0.000026	0.073	0.025 - 0.15[e]	n/a	0.001	0.00025	n/a	n/a	0.0008	n/a	1	0.015	n/a	0.03	n/a
BC Standard																																		
CSR Drinking Water (DW)			n/a	9.5	0.006	0.01	1	0.008	5	0.005	n/a	0.05	0.02[f]	1.5	6.5	0.01	0.008	n/a	1.5	0.001	0.25	0.08	n/a	0.01	0.02	200	2.5	n/a	2.5	n/a	0.02	0.02	3	n/a
CSR Aquatic Life (AW)[c]			n/a	n/a	0.09	0.05	10	0.0015	12	0.0005 - 0.004[e]	n/a	0.01	0.04	0.02 - 0.09[e]	n/a	0.04 - 0.16[e]	n/a	n/a	n/a	0.00025	10	0.25 - 1.5[e]	n/a	0.02	0.0005 - 0.0015[e]	n/a	n/a	0.003	n/a	1	0.085	n/a	0.075 - 2.4[e]	n/a

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.
[d] Guideline is pH dependent; based on available data, site pH is > 6.5.
[e] Standard varies with hardness.
[f] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 22 (Cont'd): Summary of Analytical Results for Total Metals in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Phys Hardness mg/L	Total Metals Aluminum mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chromium mg/L	Cobalt mg/L	Copper mg/L	Iron mg/L	Lead mg/L	Lithium mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Molybdenum mg/L	Nickel mg/L	Potassium mg/L	Selenium mg/L	Silver mg/L	Sodium mg/L	Strontium mg/L	Thallium mg/L	Tin mg/L	Titanium mg/L	Uranium mg/L	Vanadium mg/L	Zinc mg/L	Zirconium mg/L
Well	Well (2004)	2004 12 08	-	-	-	-	-	-	-	-	72.2	-	-	-	-	-	-	36	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-
	Well (2005)	2005 11 06	346	< 0.005	< 0.001	< 0.001	0.029	< 0.001	< 0.05	< 0.0002	77.2	< 0.001	< 0.001	0.001	***1.14***	< 0.05[a]	**0.009**	37	0.044	< 0.00002	0.0009	< 0.001	1.5	< 0.001	< 0.00025	1.8	0.24	< 0.000100	< 0.001	< 0.001	0.0016	< 0.001	0.007	< 0.01
	GR23	Duplicate	339	< 0.005	< 0.001	0.001	0.032	< 0.001	< 0.05	< 0.0002	75.6	< 0.001	< 0.001	0.001	***1.38***	< 0.05[a]	**0.009**	36.4	0.047	< 0.00002	0.0009	< 0.001	1.5	< 0.001	< 0.00025	1.8	0.25	< 0.000100	< 0.001	< 0.001	0.0016	< 0.001	< 0.005	< 0.01
	QA/QC RPD%		2	*	*	*	10	*	*	*	2	*	*	*	19	*	0	2	*	*	*	*	0	*	*	0	4	*	*	*	*	*	*	*
	Well (2006)	2006 08 20	371	0.019	< 0.001	0.001	0.031	< 0.001	< 0.05	< 0.0002	75.6	< 0.001	< 0.001	< 0.001	***0.77***	< 0.001	0.008	36.2	0.043	< 0.02[a]	0.0009	< 0.001	1.8	< 0.001	< 0.00025	1.9	0.25	< 0.000100	< 0.001	< 0.001	0.0018	< 0.001	0.026	< 0.01
	GR60	Duplicate	340	0.019	< 0.001	0.001	0.028	**7**	< 0.05	< 0.0002	75.3	< 0.001	< 0.001	< 0.001	***0.62***	< 0.001	0.007	36.1	0.04	< 0.02[a]	0.0008	< 0.001	1.6	< 0.001	< 0.00025	2.1	0.22	< 0.000100	< 0.001	< 0.001	0.0016	< 0.001	0.012	< 0.01
	QA/QC RPD%		9	0	*	0	10	*	*	*	0	*	*	*	22	*	13	0	*	*	*	*	12	*	*	10	13	*	*	*	*	*	*	*
	Well (2008)	2008 10 06	-	-	-	-	-	-	-	-	79.7	-	-	-	-	-	-	38	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-
	Well (2009)	2009 10 19	359	< 0.005	< 0.0005	< 0.001	0.028	< 0.0005	< 0.025	< 0.00005	78.4	< 0.001	< 0.0005	< 0.0005	***2.32***	< 0.00025	0.0078	39.5	**0.052**	< 0.02[a]	0.0008	< 0.001	1.67	< 0.001	< 0.0002	2	0.247	< 0.0001	< 0.0005	< 0.001	0.0014	< 0.0005	< 0.005	< 0.0005
	GR83	Duplicate	348	< 0.005	< 0.0005	< 0.001	0.025	< 0.0005	< 0.025	< 0.00005	75.9	< 0.001	< 0.0005	< 0.0005	***0.37***	< 0.00025	0.0076	38.3	0.047	< 0.02[a]	0.0008	< 0.001	1.61	< 0.001	< 0.0002	2	0.239	< 0.0001	< 0.0005	0.001	0.0013	< 0.0005	< 0.005	< 0.0005
	QA/QC RPD%		3	*	*	*	11	*	*	*	3	*	*	*	145	*	3	3	*	*	*	*	4	*	*	0	3	*	*	*	*	*	*	*
	WELL (2010)	2010 09 08	364	< 0.005	< 0.000500	0.00082	0.031	< 0.001	< 0.1	< 0.0000170	82.2	< 0.001	< 0.000300	< 0.001	***5.47***	< 0.000500	0.0071	40.4	**0.0754**	< 0.0000100	< 0.001	< 0.001	< 2	< 0.001	< 0.0000200	2	-	< 0.000200	< 0.000500	< 0.01	0.00145	< 0.001	< 0.005	-
	GR2	Duplicate	364	< 0.005	< 0.000500	0.00083	0.03	< 0.001	< 0.1	< 0.0000170	80	< 0.001	< 0.000300	< 0.001	***5.35***	< 0.000500	0.007	39.8	**0.0734**	< 0.0000100	< 0.001	< 0.001	< 2	< 0.001	< 0.0000200	< 2	-	< 0.000200	< 0.000500	< 0.01	0.00144	< 0.001	< 0.005	-
	QA/QC RPD%		0	*	*	1	3	*	*	*	3	*	*	*	2	*	1	1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	-
	Well (2011)	2011 09 16	356	< 0.005	< 0.0005	0.00092	0.031	< 0.001	< 0.1	< 0.000017	81.6	< 0.001	0.00054	0.0021	***5.06***	< 0.0005	-	39.3	**0.0633**	< 0.00001	< 0.001	< 0.001	-	< 0.001	< 0.00002	< 2	0.264	< 0.0002	< 0.0005	0.011	0.00138	< 0.001	< 0.005	-
	2458-0812-DW1	2012 08 08	334	0.002	< 0.00005	0.0012	0.0324	< 0.00005	0.006	0.00001	73.4	< 0.0005	0.00007	< 0.0005	***3.06***	0.00002	0.0071	36.7	0.05	< 0.000003	0.0009	< 0.0005	-	< 0.0003	< 0.00001	1.8	-	< 0.00001	-	0.103	0.00151	< 0.0005	< 0.005	-
	2458-0812-DW101	Duplicate	332	0.001	< 0.00005	0.0011	0.0306	< 0.00005	0.006	0.00001	72.8	< 0.0005	0.00006	< 0.0005	***3.1***	0.00002	0.0071	36.4	**0.052**	< 0.000003	0.0009	< 0.0005	-	< 0.0003	< 0.00001	1.8	-	< 0.00001	-	0.098	0.00144	< 0.0005	< 0.005	-
	QA/QC RPD%		1	*	*	9	6	*	*	*	1	*	*	*	1	*	0	1	*	*	*	*	-	*	*	0	-	*	-	5	*	*	*	-
Federal Guideline																																		
Canadian Drinking Water Quality Guidelines (CDWQ			n/a	0.1	0.006	0.01	1	n/a	5	0.005	n/a	0.05	n/a	1	0.3	0.01	n/a	n/a	0.05	0.001	n/a	n/a	n/a	0.05	n/a	200	n/a	n/a	n/a	n/a	0.02	n/a	5	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	0.1[d]	2	0.005	2.9	0.0053	1.5	0.00004 - 0.00037[e]	n/a	0.0089	n/a	0.002 - 0.004[e]	0.3	0.001 - 0.007[e]	n/a	n/a	n/a	0.000026	0.073	0.025 - 0.15[e]	n/a	0.001	0.00025	n/a	n/a	0.0008	n/a	1	0.015	n/a	0.03	n/a
BC Standard																																		
CSR Drinking Water (DW)			n/a	9.5	0.006	0.01	1	0.008	5	0.005	n/a	0.05	0.02[f]	1.5	6.5	0.01	0.008	n/a	1.5	0.001	0.25	0.08	n/a	0.01	0.02	200	2.5	n/a	2.5	n/a	0.02	0.02	3	n/a
CSR Aquatic Life (AW)[c]			n/a	n/a	0.09	0.05	10	0.0015	12	0.0005 - 0.004[e]	n/a	0.01	0.04	0.02 - 0.09[e]	n/a	0.04 - 0.16[e]	n/a	n/a	n/a	0.00025	10	0.25 - 1.5[e]	n/a	0.02	0.0005 - 0.0015[e]	n/a	n/a	0.003	n/a	1	0.085	n/a	0.075 - 2.4[e]	n/a

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.
[d] Guideline is pH dependent; based on available data, site pH is > 6.5.
[e] Standard varies with hardness.
[f] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 23: Summary of Analytical Results for VOCs in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Volatile Organic Compounds																																											
			Bromo benzene µg/L	Bromo dichloro methane µg/L	Bromo form µg/L	Bromo methane µg/L	1,3-Butadiene µg/L	Carbon tetra chloride µg/L	Chloro benzene µg/L	Chloro ethane µg/L	Chloro form µg/L	Chloro methane µg/L	2-Chloro propane µg/L	Dibromo chloro methane µg/L	1,2-Di bromo ethane µg/L	1,2-Di chloro benzene µg/L	1,3-Di chloro benzene µg/L	1,4-Di chloro benzene µg/L	Dichloro difluoro methane µg/L	1,1-Dichloro ethane µg/L	1,2-Dichloro ethane µg/L	1,1-Dichloro ethylene µg/L	cis-1,2-Dichloro ethylene µg/L	trans-1,2-Dichloro ethylene µg/L	Dichloro methane µg/L	1,2-Dichloro propane µg/L	2,2-Dichloro propane µg/L	1,3-Dichloro propane µg/L	cis-1,3-Dichloro propene µg/L	trans-1,3-Dichloro propene µg/L	Hexa chloro butadiene µg/L	2-Hexa none µg/L	Methyl ethyl ketone µg/L	Methyl isobutyl ketone µg/L	Methylene bromide µg/L	Tetra bromo methane µg/L	1,1,1,2-Tetra chloroethane µg/L	1,1,2,2-Tetra chloroethane µg/L	Tetra chloro ethylene µg/L	1,2,3-Tri chloro benzene µg/L	1,2,4-Tri chloro benzene µg/L	1,1,1-Tri chloro ethane µg/L	1,1,2-Tri chloro ethane µg/L	Trichloro ethylene µg/L	Trichloro fluoro methane µg/L	Vinyl chloride µg/L
BH113M	BH113M (2006)	2006 08 20	-	< 0.1	< 0.2	< 0.8	-	< 0.1	< 0.1	< 0.4	< 0.3	< 0.4	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.4	< 0.1	< 0.1	< 0.1	< 6	< 0.1	-	-	< 0.1	< 0.1	-	< 5	< 5	< 2	< 0.2	-	-	< 0.2	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2
BH13-04	BH13-04	2013 10 29	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	zMW13-04-AD05	2013 10 02	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH13-05	BH13-05	2013 10 29	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	DUP 1	Duplicate	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4[a]	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	QA/QC RPD%		-	*	*	*	-	*	*	*	*	*	-	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*
BH13-07	zMW13-07-AD05	2013 10 01	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	BH13-07	2013 10 29	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH13-08	BH13-08-GW01-AD05	2014 03 11	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	-	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	-	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	-	-	< 1	< 1	< 1	< 8	< 1
BH14-09	BH14-09-GW01-AD05	2014 03 12	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-10	BH14-10-GW01-AD05	2014 03 11	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-11	BH14-11-GW01-AD05	2014 03 10	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-12	BH14-12-GW01-AD05	2014 03 09	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-13	BH14-13-GW01-AD05	2014 03 10	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-14	BH14-14-GW01-AD05	2014 03 09	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-15	BH14-15-GW01-AD05	2014 03 10	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	BH14-15A-GW01-AD05	Duplicate	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	*	-	-	-	*	-	*	*	*	*	*	*	*	*	*	*	*
	BH14-15-GW2-AD05	2014 08 14	< 4	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	< 2	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	< 2	< 2	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	< 100	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	BH14-A-GW2-AD05	Duplicate	< 4	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	< 3.2	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	< 2	< 2	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	< 100	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	QA/QC RPD%		*	*	*	*	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*
BH14-16	BH14-16-GW01-AD05	2014 03 09	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-18	BH14-18-GW01-AD05	2014 03 13	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	BH14-18-GW2-AD05	2014 08 17	< 4	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	< 4	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	< 2	< 2	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-19	BH14-19-GW01-AD05	2014 03 10	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-20	BH14-20-GW01-AD05	2014 03 10	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
	BH14-20-GW2-AD05	2014 08 14	< 4	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	< 2	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	< 2	< 2	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-22	BH14-22-GW01-AD05	2014 03 11	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	-	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	-	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	-	-	< 1	< 1	< 1	< 8	< 1
	BH14-22A-GW01-AD05	Duplicate	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	-	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	-	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	-	-	< 1	< 1	< 1	< 8	< 1
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	-	*	-	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	-	-	-	-	*	-	*	*	*	-	-	*	*	*	*	*	*
BH14-23	BH14-23-GW01-AD05	2014 03 11	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-24	BH14-24-GW01-AD05	2014 03 11	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-25	BH14-25-GW01-AD05	2014 03 11	< 4	< 2	< 2	< 2	< 10[a]	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	< 1.8	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-26	BH14-26-GW01-AD05	2014 03 13	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-27	BH14-27-GW01-AD05	2014 03 12	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
BH14-28	BH14-28-GW01-AD05	2014 03 12	-	< 2	< 2	< 2	-	< 1[a]	< 1	< 2	< 2[a]	< 2	-	< 2	< 0.4	< 1[a]	< 1	< 1	< 4	< 1	< 1	< 1	< 2[a]	< 2[a]	< 4	< 1	-	-	< 2[a]	< 2[a]	< 1	-	-	-	-	-	< 1	< 1[a]	< 1	< 4[a]	< 4	< 1	< 1	< 1	< 8	< 1
Tap	Tap (2006)	2006 08 20	-	< 0.1	< 0.2	< 0.8	-	< 0.1	< 0.1	< 0.4	< 0.3	< 0.4	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.4	< 0.1	< 0.1	< 0.1	< 6	< 0.1	-	-	< 0.1	< 0.1	-	< 5	< 5	< 2	< 0.2	-	-	< 0.2	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2
Well	Well (2005)	2005 11 06	-	< 0.1	< 0.2	< 0.8	-	< 0.1	< 0.1	< 0.4	< 0.3	< 0.4	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.4	< 0.1	< 0.1	< 0.1	< 6	< 0.1	-	-	< 0.1	< 0.1	-	< 5	< 5	< 2	< 0.2	-	-	< 0.2	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2
	GR23	Duplicate	-	< 0.1	< 0.2	< 0.8	-	< 0.1	< 0.1	< 0.4	< 0.3	< 0.4	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.4	< 0.1	< 0.1	< 0.1	< 6	< 0.1	-	-	< 0.1	< 0.1	-	< 5	< 5	< 2	< 0.2	-	-	< 0.2	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2
	QA/QC RPD%		-	*	*	*	-	*	*	*	*	*	-	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	-	*	*	*	*	-	-	*	*	-	-	*	*	*	*	*	*
	Well (2006)	2006 08 20	-	< 0.1	< 0.2	< 0.8	-	< 0.1	< 0.1	< 0.4	< 0.3	< 0.4	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.4	< 0.1	< 0.1	< 0.1	< 6	< 0.1	-	-	< 0.1	< 0.1	-	< 5	< 5	< 2	< 0.2	-	-	< 0.2	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2
	GR60	Duplicate	-	< 0.1	< 0.2	< 0.8	-	< 0.1	< 0.1	< 0.4	< 0.3	< 0.4	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.4	< 0.1	< 0.1	< 0.1	< 6	< 0.1	-	-	< 0.1	< 0.1	-	< 5	< 5	< 2	< 0.2	-	-	< 0.2	< 0.1	-	-	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2
	QA/QC RPD%		-	*	*	*	-	*	*	*	*	*	-	*	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*	-	*	*	*	*	-	-	*	*	-	-	*	*	*	*	*	*
Federal Guideline																																														
Canadian Drinking Water Quality Guidelines (CDWQG			n/a	n/a	n/a	n/a	n/a	2	30	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	1	n/a	n/a	5	14	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10	n/a	n/a	n/a	n/a	5	n/a	2
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	8,500	380	5.6	n/a	0.56	1.3	n/a	1.8	n/a	n/a	1,100	n/a	0.7	150	26	n/a	320	10	39	1.6	1.6	98	16	n/a	n/a	n/a	n/a	1.3	n/a	150,000	58,000	n/a	n/a	3.4	3.2	110	8	24	640	4.7	20	n/a	1.1
BC Standard																																														
CSR Drinking Water (DW)			30	100	100	5.5	1	2	80	n/a	100	n/a	n/a	100	0.5	200	n/a	5	800	30	5	14	8	80	50	4.5	n/a	80	1.5	1.5	2	20	2,500	n/a	n/a	n/a	6	0.8	30	3	5.5	8,000	3	5	1,000	2
CSR Aquatic Life (AW)[c]			n/a	n/a	n/a	n/a	n/a	130	13	n/a	20	n/a	n/a	n/a	n/a	7	1,500	260	n/a	n/a	1,000	n/a	n/a	n/a	980	n/a	n/a	n/a	n/a	n/a	15	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1,100	80	240	n/a	n/a	200	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).
[c] Standard to protect freshwater aquatic life.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

TABLE 24: Summary of Analytical Results for Glycols in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Glycols				
			Diethylene glycol mg/L	Ethylene glycol mg/L	Propylene glycol mg/L	Tetraethylene glycol mg/L	Triethylene glycol mg/L
BH113M	BH113M (2006)	2006 08 20	< 5	< 5	< 5	-	< 10[a]
BH13-04	BH13-04	2013 10 29	< 20	< 20[a]	< 20	< 20	< 20[a]
BH13-05	BH13-05	2013 10 29	< 20	< 20[a]	< 20	< 20	< 20[a]
	DUP 1	Duplicate	< 20	< 20[a]	< 20	< 20	< 20[a]
	QA/QC RPD%		*	*	*	*	*
BH13-07	BH13-07	2013 10 29	< 20	< 20[a]	< 20	< 20	< 20[a]
BH13-08	BH13-08-GW01-AD05	2014 03 11	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-09	BH14-09-GW01-AD05	2014 03 12	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-10	BH14-10-GW01-AD05	2014 03 11	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-11	BH14-11-GW01-AD05	2014 03 10	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-12	BH14-12-GW01-AD05	2014 03 09	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-13	BH14-13-GW01-AD05	2014 03 10	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-14	BH14-14-GW01-AD05	2014 03 09	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-15	BH14-15-GW01-AD05	2014 03 10	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-15A-GW01-AD05	Duplicate	< 20	< 20[a]	< 20	< 20	< 20[a]
	QA/QC RPD%		*	*	*	*	*
	BH14-15-GW2-AD05	2014 08 14	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-A-GW2-AD05	Duplicate	< 20	< 20[a]	< 20	< 20	< 20[a]
	QA/QC RPD%		*	*	*	*	*
BH14-16	BH14-16-GW01-AD05	2014 03 09	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-18	BH14-18-GW01-AD05	2014 03 13	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-19	BH14-19-GW01-AD05	2014 03 10	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-20	BH14-20-GW01-AD05	2014 03 10	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-20-GW2-AD05	2014 08 14	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-22	BH14-22-GW01-AD05	2014 03 11	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-22A-GW01-AD05	Duplicate	< 20	< 20[a]	< 20	< 20	< 20[a]
	QA/QC RPD%		*	*	*	*	*
	BH14-22-GW2-AD05	2014 08 15	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-23	BH14-23-GW01-AD05	2014 03 11	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-23-GW2-AD05	2014 08 15	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-24	BH14-24-GW01-AD05	2014 03 11	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-24-GW2-AD05	2014 08 16	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-C-GW2-AD05	Duplicate	< 20	< 20[a]	< 20	< 20	< 20[a]
	QA/QC RPD%		*	*	*	*	*
BH14-25	BH14-25-GW01-AD05	2014 03 11	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-25-GW2-AD05	2014 08 16	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-26	BH14-26-GW01-AD05	2014 03 13	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-27	BH14-27-GW01-AD05	2014 03 12	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-27-GW2-AD05	2014 08 15	< 20	< 20[a]	< 20	< 20	< 20[a]
BH14-28	BH14-28-GW01-AD05	2014 03 12	< 20	< 20[a]	< 20	< 20	< 20[a]
	BH14-28-GW2-AD05	2014 08 16	< 20	< 20[a]	< 20	< 20	< 20[a]
Federal Guideline							
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	190	500	n/a	n/a
BC Standard							
CSR Drinking Water (DW)			n/a	8	80	n/a	8
CSR Aquatic Life (AW)[c]			n/a	1,920	5,000	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline

BOLD Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline

OUTLINE Concentration greater than CSR Drinking Water (DW) standard

SHADOW Concentration greater than CSR Aquatic Life (AW) standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[c] Standard to protect freshwater aquatic life.

TABLE 24 (Cont'd): Summary of Analytical Results for Glycols in Groundwater

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Glycols				
			Diethylene glycol mg/L	Ethylene glycol mg/L	Propylene glycol mg/L	Tetraethylene glycol mg/L	Triethylene glycol mg/L
Tap	Tap (2006)	2006 08 20	< 5	< 5	< 5	-	< 10[a]
	Tap (2007)	2007 08 22	< 5	< 5	< 5	-	< 10[a]
	GR70	Duplicate	< 5	< 5	< 5	-	< 10[a]
	QA/QC RPD%		*	*	*	-	*
Well	Well (2005)	2005 11 06	< 5	< 5	< 5	-	< 10[a]
	GR23	Duplicate	< 5	< 5	< 5	-	< 10[a]
	QA/QC RPD%		*	*	*	-	*
	Well (2006)	2006 08 20	< 5	< 5	< 5	-	< 10[a]
	GR60	Duplicate	< 5	< 5	< 5	-	< 10[a]
	QA/QC RPD%		*	*	*	-	*
Federal Guideline							
Canadian Drinking Water Quality Guidelines (CDWQG)			n/a	n/a	n/a	n/a	n/a
FGQG Tier 2 Residential/Parkland Land Use (RL/PL)[b]			n/a	190	500	n/a	n/a
BC Standard							
CSR Drinking Water (DW)			n/a	8	80	n/a	8
CSR Aquatic Life (AW)[c]			n/a	1,920	5,000	n/a	n/a

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline

BOLD Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline

OUTLINE Concentration greater than CSR Drinking Water (DW) standard

SHADOW Concentration greater than CSR Aquatic Life (AW) standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.

[b] Pathways Included: Freshwater Aquatic Life - Coarse, Inhalation - Coarse, Soil Organisms Direct Contact - Coarse (whichever is most stringent).

[c] Standard to protect freshwater aquatic life.

TABLE 25: Summary of Analytical Results for Drinking Water - Hydrocarbons

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Monocyclic Aromatic Hydrocarbons					Gross Parameters					Petroleum Hydrocarbon Fractions				MTBE
			Benzene µg/L	Ethylbenzen µg/L	Toluene µg/L	Xylenes µg/L	Styrene µg/L	VH (C6-C10) µg/L	VPH (C6-C10) µg/L	EPH (C10-C19) µg/L	LEPH (C10-C19) µg/L	EPH (C19-C32) µg/L	F1- µg/L	F2 (>C10- µg/L	F3 (>C16- µg/L	F4 (>C34- µg/L	MTBE µg/L
WELL2016	WELL2016-RAW-161108	2016 11 08	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	< 300	< 150	< 200	< 200	< 4.0
Federal Guideline																	
Canadian Drinking Water Quality Guidelines (CDWQG)			5	1.6	24	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15
BC Standard																	
CSR Drinking Water (DW)			5	140	60	90	800	15,000[b]	n/a	5,000[b]	n/a	n/a	n/a	n/a	n/a	n/a	95

Associated Maxxam file(s): B6A0636.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline

OUTLINE Concentration greater than CSR Drinking Water (DW) standard

[a] Pathways Included: Aesthethic Objectives, Maximum Acceptable Concentrations.
[b] Applicable at all sites irrespective of water use.

TABLE 26: Summary of Analytical Results for Drinking Water - Polycyclic Aromatic Hydrocarbons

Sample Location Sample ID Sample Date (yyyy mm dd)		WELL2016 WELL2016-RAW- 2016 11 08	Federal Guideline Canadian Drinking Water Quality Guidelines (CDWQG)[b]	BC Standard CSR Drinking Water (DW)
Parameter	**Units**	**Analytical Results**		
Polycyclic Aromatic Hydrocarbons				
Naphthalene	µg/L	< 0.10	n/a	80
2-Methylnaphthalene	µg/L	< 0.10	n/a	15
Acenaphthylene	µg/L	< 0.050	n/a	n/a
Acenaphthene	µg/L	< 0.050	n/a	250
Fluorene	µg/L	< 0.050	n/a	150
Phenanthrene	µg/L	< 0.050	n/a	n/a
Anthracene	µg/L	< 0.010	n/a	1,000
Acridine	µg/L	< 0.050	n/a	n/a
Fluoranthene	µg/L	< 0.020	n/a	150
Pyrene	µg/L	< 0.020	n/a	100
Benzo(a)anthracene	µg/L	< 0.010	n/a	0.07
Chrysene	µg/L	< 0.050	n/a	7
Benzo(b+j)fluoranthene	µg/L	< 0.050	n/a	0.07
Benzo(k)fluoranthene	µg/L	< 0.050	n/a	n/a
Benzo(a)pyrene	µg/L	< 0.0090	0.04	0.01
Indeno(1,2,3-cd)pyrene	µg/L	< 0.050	n/a	n/a
Dibenz(a,h)anthracene	µg/L	< 0.050[a]	n/a	0.01
Benzo(g,h,i)perylene	µg/L	< 0.050	n/a	n/a
Quinoline	µg/L	< 0.24[a]	n/a	0.05

Associated Maxxam file(s): B6A0636.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Pathways Included: Aesthethic Objectives, Maximum Acceptable Concentrations.

TABLE 27: Summary of Analytical Results for Drinking Water - Physical Parameters, Inorganics and Total Metals

Sample Location		WELL2016	Federal Guideline	BC Standard
Sample ID		WELL2016-RAW-	Canadian Drinking Water Quality Guidelines (CDWQG)[a]	CSR Drinking Water (DW)
Sample Date (yyyy mm dd)		2016 11 08		
Parameter	**Units**	**Analytical Results**		
Physical Parameters				
pH	pH	8.16	7.0 - 10.5	n/a
Total Hardness	mg/L	394	n/a	n/a
Colour	CU	< 5.0	15	n/a
Turbidity	NTU	**6.39**	1	n/a
Conductivity	µS/cm	720	n/a	n/a
Total Dissolved Solids	mg/L	456	500	n/a
Dissolved Inorganics				
Nitrate Nitrogen	µg/L	43	10,000	10,000
Nitrite Nitrogen	µg/L	< 5.0	1,000	10,000
Nitrate+Nitrite Nitrogen	µg/L	43	n/a	10,000
Chloride	mg/L	0.98	250	250
Fluoride	µg/L	160	1,500	1,500
Sulphate	mg/L	133	500	500
Total Alkalinity (as CaCO3)	mg/L	276	n/a	n/a
Alkalinity, Phenolphthalein (as CaCO3)	mg/L	< 0.50	n/a	n/a
Bicarbonate	mg/L	336	n/a	n/a
Carbonate	mg/L	< 0.50	n/a	n/a
Hydroxide	mg/L	< 0.50	n/a	n/a
Salinity	mg/L	1.62	n/a	n/a
Total Metals				
Aluminum	µg/L	4.6	100	9,500
Antimony	µg/L	< 0.50	6	6
Arsenic	µg/L	< 0.10	10	10
Barium	µg/L	25.0	1,000	1,000
Boron	µg/L	< 50	5,000	5,000
Cadmium	µg/L	0.029	5	5
Calcium	µg/L	87,900	n/a	n/a
Chromium	µg/L	< 1.0	50	50
Cobalt	µg/L	< 0.50	n/a	20[b]
Copper	µg/L	7.04	1,000	1,500
Iron	µg/L	**640**	300	6,500
Lead	µg/L	0.72	10	10
Magnesium	µg/L	42,500	n/a	n/a
Manganese	µg/L	15.6	50	1,500
Mercury	µg/L	< 0.010	1	1
Molybdenum	µg/L	< 1.0	n/a	250
Nickel	µg/L	< 1.0	n/a	80
Potassium	µg/L	1,820	n/a	n/a
Selenium	µg/L	0.41	50	10
Silver	µg/L	< 0.020	n/a	20
Sodium	µg/L	1,900	200,000	200,000
Sulphur	µg/L	43,700	n/a	n/a
Uranium	µg/L	1.85	20	20
Vanadium	µg/L	< 5.0	n/a	20
Zinc	µg/L	14.8	5,000	3,000

Associated Maxxam file(s): B6A0636.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard

[a] Pathways Included: Aesthethic Objectives, Maximum Acceptable Concentrations.
[b] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

TABLE 28: Summary of Analytical Results for Drinking Water - Microbiological Parameters

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Microbiologicals	
			Total Coliforms	E.Coli
WELL2016	WELL2016-RAW-161108	2016 11 08	ND	ND
Federal Guideline				
Canadian Drinking Water Quality Guidelines (CDWQG) [a]			ND	ND
BC Standard				
CSR Drinking Water (DW)			n/a	n/a

Associated Maxxam file(s): B6A0636.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
ND Not detectable

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline

OUTLINE Concentration greater than CSR Drinking Water (DW) standard

[a] Pathways Included: Aesthethic Objectives, Maximum Acceptable Concentrations.
[b] Applicable at all sites irrespective of water use.

TABLE 29: Summary of Analytical Results for Soil Vapour

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Screen Interval (m)	Monocyclic Aromatic Hydrocarbons					Gross Parameters				Petroleum Hydrocarbon Fractions								PAHs	Volatile Organic Compounds										
				Benzene ug/m3	Ethylbenzen ug/m3	Toluene ug/m3	Xylenes ug/m3	Styrene ug/m3	VHv6-13 ug/m3	VPHv (C6-C13) ug/m3	F1 (C6-C10) ug/m3	F2 (>C10-C16) ug/m3	Aliphatics C6-C8 ug/m3	Aliphatics >C8-C10 ug/m3	Aliphatics >C10-C12 ug/m3	Aliphatics >C12-C16 ug/m3	Aromatics C6-C8 ug/m3	Aromatics >C8-C10 ug/m3	Aromatics >C10-C12 ug/m3	Aromatics >C12-C16 ug/m3	Naphthalen ug/m3	1,3-Butadiene ug/m3	n-Decane ug/m3	1,2-Dibromo ethane ug/m3	1,2-Dichloro ethane ug/m3	n-Hexane ug/m3	Isopropyl benzene ug/m3	MTBE ug/m3	Methyl cyclo hexane ug/m3	1,2,3-Tri methyl benzene ug/m3	1,2,4-Tri methyl benzene ug/m3	1,3,5-Tri methyl benzene ug/m3
MSV1	MSV1	2009 10 18	1.6 - 1.8	36.5	183	275	3,340	-	83,300	78,100	-	38,600	2,180	19,700	21,900	16,800	312	3,520	-	-	104	-	1,410	-	-	7.9	125	-	17.4	204	1,010	841
	MSV1	2010 09 08	1.6 - 1.8	195	120	< 840	< 420	< 100	530,000	530,000	213,000	182,000	41,200	467,000	280,000	15,500	-	< 2,100	< 2,100	< 2,100	< 630	< 42	< 2,900	< 100	< 8.4	1,460	< 100	< 100	5,800	-	< 630	< 210
	2458-0812-MSV1	2012 08 12	1.6 - 1.8	550	1,520	600	11,800	< 2	-	3,120,000	-	-	-	-	-	-	-	-	-	-	< 2	< 2	2,340	< 1	< 0.4	740	520	< 300	3,750	-	2,020	1,550
	MSV 1	2014 08 21	1.6 - 1.8	< 1.7	9.9	16.5	68.3	< 1.7	2,000.00	1,900.00	-	-	-	-	-	-	-	-	-	-	14.6	< 1.7	12.8	< 0.85	< 0.34	< 1.7	< 3.4	< 17	10.9	8.5	18.2	7.8
MSV2	MSV2	2009 10 18	1.6 - 1.8	12.4	31.7	58.7	176	-	22,400	21,700	-	11,600	140	3,750	6,880	4,770	71	207	-	-	3.8	-	359	-	-	2.8	25.6	-	7.3	115	138	158
	MSV 2	2014 08 21	1.6 - 1.8	< 1.7	1.9	5.7	12.3	< 1.7	171	147	-	-	-	-	-	-	-	-	-	-	15.3	< 1.7	4	< 0.84	< 0.34	< 1.7	< 3.4	< 17	< 3.4	< 1.7	< 3.4	< 1.7
	MSV A	Duplicate	1.6 - 1.8	< 1.7	2	6.6	12.3	< 1.7	176	151	-	-	-	-	-	-	-	-	-	-	14.8	< 1.7	4.4	< 0.84	< 0.34	< 1.7	< 3.4	< 17	< 3.4	< 1.7	< 3.4	< 1.7
	QA/QC RPD%			*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	3	*	*	*	*	*	*	*	*	*	*	*
SSV1	SSV1	2010 09 08	Subslab	< 3.1	3.2	9.6	16.7	2.4	< 2,100	< 2,100	< 1,300	< 840	< 2,100	< 2,100	< 2,100	< 2,100	-	< 2,100	< 2,100	< 2,100	< 6.3	< 4.2	< 10	< 1	< 0.84	< 10	< 1	< 10	< 10	-	7.3	3.9
	2458-0812-SSV1	2012 08 12	Subslab	< 1	< 2	< 300	6	< 2	-	810	-	-	-	-	-	-	-	-	-	-	< 2	< 2	< 500	< 1	< 0.4	< 500	< 500	< 300	< 500	-	9	4
	2458-0812-SV101	Duplicate	Subslab	660	1,340	840	10,400	< 2	-	2,600,000	-	-	-	-	-	-	-	-	-	-	< 2	< 2	2,190	< 1	< 0.4	690	< 500	< 300	3,450	-	1,930	1,480
	QA/QC RPD%			*	*	*	199	*	-	*	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	-	*	*
SSV2	SSV2	2010 09 08	Subslab	3.4	5.1	< 8.6	16	16.1	< 2,200	< 2,200	< 1,300	1,670	< 2,200	< 2,200	< 2,200	< 2,200	-	< 2,200	< 2,200	< 2,200	< 6.5	< 4.3	< 11	< 1.1	< 0.86	< 11	< 1.1	< 11	< 11	-	7.8	< 2.2
	2458-0812-SSV2	2012 08 12	Subslab	< 1	< 2	< 300	4	< 2	-	640	-	-	-	-	-	-	-	-	-	-	< 2	< 2	< 500	< 1	< 0.4	< 500	< 500	< 300	< 500	-	6	< 300
TSV1	TSV1 (2009)	2009 10 18	1.6 - 1.8	2.6	6.5	14.5	49.4	-	12,800	12,600	-	8,160	56.6	1,110	4,170	3,990	17.1	55.9	-	-	< 0.03	-	68.1	-	-	0.43	2.1	-	0.66	15.7	45.6	15.2
	TSV1 (2010)	2010 09 08	1.6 - 1.8	17.4	3.3	16.1	16.8	3.34	97,000	97,000	4,950	104,000	2,400	6,100	126,000	53,100	-	< 1,000	1,100	< 1,000	< 4.2	< 2.1	< 84	< 0.52	< 0.42	48.6	< 0.52	< 5.2	235	-	6.6	4.6
	2458-0812-TSV1	2012 08 12	1.6 - 1.8	1	3	< 300	24	< 2	-	81,600	-	-	-	-	-	-	-	-	-	-	< 2	< 2	23	< 1	< 0.4	< 500	< 500	< 300	12	-	29	16

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

TABLE 30: Summary of Analytical Results for Estimated Indoor Air Concentrations

					Monocyclic Aromatic Hydrocarbons					Gross Parameters				Petroleum Hydrocarbon Fractions								PAHs	Volatile Organic Compounds										
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Screen Interval	Attenuation Factor	Benzene ug/m3	Ethylbenzen ug/m3	Toluene ug/m3	Xylenes ug/m3	Styrene ug/m3	VHv6-13 ug/m3	VPHv (C6-C13) ug/m3	F1 (C6-C10) ug/m3	F2 (>C10-C16) ug/m3	Aliphatics C6-C8 ug/m3	Aliphatics >C8-C10 ug/m3	Aliphatics >C10-C12 ug/m3	Aliphatics >C12-C16 ug/m3	Aromatics C6-C8 ug/m3	Aromatics >C8-C10 ug/m3	Aromatics >C10-C12 ug/m3	Aromatics >C12-C16 ug/m3	Naphthalene ug/m3	1,3-Butadiene ug/m3	n-Decane ug/m3	1,2-Di bromo ethane ug/m3	1,2-Dichloro ethane ug/m3	n-Hexane ug/m3	Isopropyl benzene ug/m3	MTBE ug/m3	Methyl cyclo hexane ug/m3	1,2,3-Tri methyl benzene ug/m3	1,2,4-Tri methyl benzene ug/m3	1,3,5-Tri methyl benzene ug/m3
MSV1	MSV1	2009 10 18	1.6 - 1.8	2.3×10^{-3}	0.08395	0.4209	0.6325	7.682	-	191.59	179.63	-	88.78	5.014	45.31	50.37	38.64	0.7176	8.096	-	-	0.2392	-	3.243	-	-	0.01817	0.2875	-	0.04002	0.4692	2.323	1.9343
	MSV1	2010 09 08	1.6 - 1.8	2.3×10^{-3}	0.4485	0.276	< 1.932	< 0.966	< 0.23	1,219	**1,219**	489.9	418.6	94.76	1,074.10	644	35.65	-	< 4.83	< 4.83	< 4.83	< 1.449	< 0.0966	< 6.67	< 0.23	< 0.01932	3.358	< 0.23	< 0.23	13.34	-	< 1.449	< 0.483
	2458-0812-MSV1	2012 08 12	1.6 - 1.8	2.3×10^{-3}	1.265	3.496	1.38	27.14	< 0.0046	-	**7,176**	-	-	-	-	-	-	-	-	-	-	< 0.0046	< 0.0046	5.382	< 0.0023	< 0.00092	1.702	1.196	< 0.69	8.625	-	4.646	**3.565**
	MSV 1	2014 08 21	1.6 - 1.8	2.3×10^{-3}	< 0.00391	0.02277	0.03795	0.15709	< 0.00391	4.6	4.37	-	-	-	-	-	-	-	-	-	-	0.03358	< 0.00391	0.02944	< 0.001955	< 0.000782	< 0.00391	< 0.00782	< 0.0391	0.02507	0.01955	0.04186	0.01794
MSV2	MSV2	2009 10 18	1.6 - 1.8	2.3×10^{-3}	0.02852	0.07291	0.13501	0.4048	-	51.52	49.91	-	26.68	0.322	8.625	15.824	10.971	0.1633	0.4761	-	-	0.00874	-	0.8257	-	-	0.00644	0.05888	-	0.01679	0.2645	0.3174	0.3634
	MSV 2	2014 08 21	1.6 - 1.8	2.3×10^{-3}	< 0.00391	0.00437	0.01311	0.02829	< 0.00391	0.3933	0.3381	-	-	-	-	-	-	-	-	-	-	0.03519	< 0.00391	0.0092	< 0.001932	< 0.000782	< 0.00391	< 0.00782	< 0.0391	< 0.00782	< 0.00391	< 0.00782	< 0.00391
	MSV A	Duplicate	1.6 - 1.8	2.3×10^{-3}	< 0.00391	0.0046	0.01518	0.02829	< 0.00391	0.4048	0.3473	-	-	-	-	-	-	-	-	-	-	0.03404	< 0.00391	0.01012	< 0.001932	< 0.000782	< 0.00391	< 0.00782	< 0.0391	< 0.00782	< 0.00391	< 0.00782	< 0.00391
	QA/QC RPD%				*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	3	*	*	*	*	*	*	*	*	*	*	*
SSV1	SSV1	2010 09 08	Subslab	2.0×10^{-2}	< 0.062	0.064	0.192	0.334	0.048	< 42	< 42	< 26	< 16.8	< 42	< 42	< 42	< 42	-	< 42	< 42	< 42	< 0.126	< 0.084	< 0.2	< 0.02	< 0.0168	< 0.2	< 0.02	< 0.2	< 0.2	-	0.146	0.078
	2458-0812-SSV1	2012 08 12	Subslab	2.0×10^{-2}	< 0.02	< 0.04	< 6	0.12	< 0.04	-	16.2	-	-	-	-	-	-	-	-	-	-	< 0.04	< 0.04	< 10	< 0.02	< 0.008	< 10	< 10	< 6	< 10	-	0.18	0.08
	2458-0812-SV101	Duplicate	Subslab	2.0×10^{-2}	**13.2**	26.8	16.8	**208**	< 0.04	-	**52,000**	-	-	-	-	-	-	-	-	-	-	< 0.04	< 0.04	43.8	< 0.02	< 0.008	13.8	< 10	< 6	69	-	**38.6**	**29.6**
	QA/QC RPD%				*	*	*	200	*	-	*	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	-	198	199
SSV2	SSV2	2010 09 08	Subslab	2.0×10^{-2}	0.068	0.102	< 0.172	0.32	0.322	< 44	< 44	< 26	33.4	< 44	< 44	< 44	< 44	-	< 44	< 44	< 44	< 0.13	< 0.086	< 0.22	< 0.022	< 0.0172	< 0.22	< 0.022	< 0.22	< 0.22	-	0.156	< 0.044
	2458-0812-SSV2	2012 08 12	Subslab	2.0×10^{-2}	< 0.02	< 0.04	< 6	0.08	< 0.04	-	12.8	-	-	-	-	-	-	-	-	-	-	< 0.04	< 0.04	< 10	< 0.02	< 0.008	< 10	< 10	< 6	< 10	-	0.12	< 6[a]
TSV1	TSV1 (2009)	2009 10 18	1.6 - 1.8	2.3×10^{-3}	0.00598	0.01495	0.03335	0.11362	-	29.44	28.98	-	18.768	0.13018	2.553	9.591	9.177	0.03933	0.12857	-	-	< 0.000069	-	0.15663	-	-	0.000989	0.00483	-	0.001518	0.03611	0.10488	0.03496
	TSV1 (2010)	2010 09 08	1.6 - 1.8	2.3×10^{-3}	0.04002	0.00759	0.03703	0.03864	0.007682	223.1	223.1	11.385	239.2	5.52	14.03	289.8	122.13	-	< 2.3	2.53	< 2.3	< 0.00966	< 0.00483	< 0.1932	< 0.001196	< 0.000966	0.11178	< 0.001196	< 0.01196	0.5405	-	0.01518	0.01058
	2458-0812-TSV1	2012 08 12	1.6 - 1.8	2.3×10^{-3}	0.0023	0.0069	< 0.69	0.0552	< 0.0046	-	187.68	-	-	-	-	-	-	-	-	-	-	< 0.0046	< 0.0046	0.0529	< 0.0023	< 0.00092	< 1.15	< 1.15	< 0.69	0.0276	-	0.0667	0.0368
BC Standard																																		
CSR Residential Land Use (RL)					1.5	1,000	5,000	100	1,000	n/a	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	2	2,500	0.5	7	700	400	3,000	1,500	n/a	7	3.5

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

SHADOW Concentration greater than CSR Residential Land Use (RL) Standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.

TABLE 31: Summary of Analytical Results for Estimated Outdoor Air Concentrations

					Monocyclic Aromatic Hydrocarbons					Gross Parameters				Petroleum Hydrocarbon Fractions								PAHs	Volatile Organic Compounds										
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Screen Interval	Attenuation Factor	Benzene ug/m3	Ethylbenzen ug/m3	Toluene ug/m3	Xylenes ug/m3	Styrene ug/m3	VHv6-13 ug/m3	VPHv (C6-C13) ug/m3	F1 (C6-C10) ug/m3	F2 (>C10-C16) ug/m3	Aliphatics C6-C8 ug/m3	Aliphatics >C8-C10 ug/m3	Aliphatics >C10-C12 ug/m3	Aliphatics >C12-C16 ug/m3	Aromatics C6-C8 ug/m3	Aromatics >C8-C10 ug/m3	Aromatics >C10-C12 ug/m3	Aromatics >C12-C16 ug/m3	Naphthalene ug/m3	1,3-Butadiene ug/m3	n-Decane ug/m3	1,2-Di bromo ethane ug/m3	1,2-Dichloro ethane ug/m3	n-Hexane ug/m3	Isopropyl benzene ug/m3	MTBE ug/m3	Methyl cyclo hexane ug/m3	1,2,3-Tri methyl benzene ug/m3	1,2,4-Tri methyl benzene ug/m3	1,3,5-Tri methyl benzene ug/m3
MSV1	MSV1	2009 10 18	1.6 - 1.8	1.2×10^{-6}	0.0000438	0.0002196	0.00033	0.004008	-	0.09996	0.09372	-	0.04632	0.002616	0.02364	0.02628	0.02016	0.0003744	0.004224	-	-	0.0001248	-	0.001692	-	-	0.00000948	0.00015	-	0.00002088	0.0002448	0.001212	0.0010092
	MSV1	2010 09 08	1.6 - 1.8	1.2×10^{-6}	0.000234	0.000144	< 0.001008	< 0.000504	< 0.00012	0.636	0.636	0.2556	0.2184	0.04944	0.5604	0.336	0.0186	-	< 0.00252	< 0.00252	< 0.00252	< 0.000756	< 0.0000504	< 0.00348	< 0.00012	< 0.00001008	0.001752	< 0.00012	< 0.00012	0.00696	-	< 0.000756	< 0.000252
	2458-0812-MSV1	2012 08 12	1.6 - 1.8	1.2×10^{-6}	0.00066	0.001824	0.00072	0.01416	< 0.0000024	-	3.744	-	-	-	-	-	-	-	-	-	-	< 0.0000024	< 0.0000024	0.002808	< 0.0000012	< 0.00000048	0.000888	0.000624	< 0.00036	0.0045	-	0.002424	0.00186
	MSV 1	2014 08 21	1.6 - 1.8	1.2×10^{-6}	< 0.00000204	0.00001188	0.0000198	0.00008196	< 0.00000204	0.0024	0.00228	-	-	-	-	-	-	-	-	-	-	0.00001752	< 0.00000204	0.00001536	< 0.00000102	< 0.000000408	< 0.00000204	< 0.00000408	< 0.0000204	0.00001308	0.0000102	0.00002184	0.00000936
MSV2	MSV2	2009 10 18	1.6 - 1.8	1.2×10^{-6}	0.00001488	0.00003804	0.00007044	0.0002112	-	0.02688	0.02604	-	0.01392	0.000168	0.0045	0.008256	0.005724	0.0000852	0.0002484	-	-	0.00000456	-	0.0004308	-	-	0.00000336	0.00003072	-	0.00000876	0.000138	0.0001656	0.0001896
	MSV 2	2014 08 21	1.6 - 1.8	1.2×10^{-6}	< 0.00000204	0.00000228	0.00000684	0.00001476	< 0.00000204	0.0002052	0.0001764	-	-	-	-	-	-	-	-	-	-	0.00001836	< 0.00000204	0.0000048	< 0.000001008	< 0.000000408	< 0.00000204	< 0.00000408	< 0.0000204	< 0.00000408	< 0.00000204	< 0.00000408	< 0.00000204
	MSV A	Duplicate	1.6 - 1.8	1.2×10^{-6}	< 0.00000204	0.0000024	0.00000792	0.00001476	< 0.00000204	0.0002112	0.0001812	-	-	-	-	-	-	-	-	-	-	0.00001776	< 0.00000204	0.00000528	< 0.000001008	< 0.000000408	< 0.00000204	< 0.00000408	< 0.0000204	< 0.00000408	< 0.00000204	< 0.00000408	< 0.00000204
	QA/QC RPD%				*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	3	*	*	*	*	*	*	*	*	*	*	*
SSV1	SSV1	2010 09 08	Subslab	1.0×10^{-4}	< 0.00031	0.00032	0.00096	0.00167	0.00024	< 0.21	< 0.21	< 0.13	< 0.084	< 0.21	< 0.21	< 0.21	< 0.21	-	< 0.21	< 0.21	< 0.21	< 0.00063	< 0.00042	< 0.001	< 0.0001	< 0.000084	< 0.001	< 0.0001	< 0.001	< 0.001	-	0.00073	0.00039
	2458-0812-SSV1	2012 08 12	Subslab	1.0×10^{-4}	< 0.0001	< 0.0002	< 0.03	0.0006	< 0.0002	-	0.081	-	-	-	-	-	-	-	-	-	-	< 0.0002	< 0.0002	< 0.05	< 0.0001	< 0.00004	< 0.05	< 0.05	< 0.03	< 0.05	-	0.0009	0.0004
	2458-0812-SV101	Duplicate	Subslab	1.0×10^{-4}	0.066	0.134	0.084	1.04	< 0.0002	-	260	-	-	-	-	-	-	-	-	-	-	< 0.0002	< 0.0002	0.219	< 0.0001	< 0.00004	0.069	< 0.05	< 0.03	0.345	-	0.193	0.148
	QA/QC RPD%				*	*	*	200	*	-	200	-	-	-	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*	-	198	199
SSV2	SSV2	2010 09 08	Subslab	1.0×10^{-4}	0.00034	0.00051	< 0.00086	0.0016	0.00161	< 0.22	< 0.22	< 0.13	0.167	< 0.22	< 0.22	< 0.22	< 0.22	-	< 0.22	< 0.22	< 0.22	< 0.00065	< 0.00043	< 0.0011	< 0.00011	< 0.000086	< 0.0011	< 0.00011	< 0.0011	< 0.0011	-	0.00078	< 0.00022
	2458-0812-SSV2	2012 08 12	Subslab	1.0×10^{-4}	< 0.0001	< 0.0002	< 0.03	0.0004	< 0.0002	-	0.064	-	-	-	-	-	-	-	-	-	-	< 0.0002	< 0.0002	< 0.05	< 0.0001	< 0.00004	< 0.05	< 0.05	< 0.03	< 0.05	-	0.0006	< 0.03
TSV1	TSV1 (2009)	2009 10 18	1.6 - 1.8	1.2×10^{-6}	0.00000312	0.0000078	0.0000174	0.00005928	-	0.01536	0.01512	-	0.009792	0.00006792	0.001332	0.005004	0.004788	0.00002052	0.00006708	-	-	< 0.000000036	-	0.00008172	-	-	0.000000516	0.00000252	-	0.000000792	0.00001884	0.00005472	0.00001824
	TSV1 (2010)	2010 09 08	1.6 - 1.8	1.2×10^{-6}	0.00002088	0.00000396	0.00001932	0.00002016	0.000004008	0.1164	0.1164	0.00594	0.1248	0.00288	0.00732	0.1512	0.06372	-	< 0.0012	0.00132	< 0.0012	< 0.00000504	< 0.00000252	< 0.0001008	< 0.000000624	< 0.000000504	0.00005832	< 0.000000624	< 0.00000624	0.000282	-	0.00000792	0.00000552
	2458-0812-TSV1	2012 08 12	1.6 - 1.8	1.2×10^{-6}	0.0000012	0.0000036	< 0.00036	0.0000288	< 0.0000024	-	0.09792	-	-	-	-	-	-	-	-	-	-	< 0.0000024	< 0.0000024	0.0000276	< 0.0000012	< 0.00000048	< 0.0006	< 0.0006	< 0.00036	0.0000144	-	0.0000348	0.0000192
BC Standard																																		
CSR Residential Land Use (RL)					1.5	1,000	5,000	100	1,000	n/a	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	2	2,500	0.5	7	700	400	3,000	1,500	n/a	7	3.5

All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
* RPDs are not calculated where one or more concentrations are less than five times RDL.

SHADOW Concentration greater than CSR Residential Land Use (RL) Standard

TABLE 32: Summary of Analytical Results for Ambient Air

			Monocyclic Aromatic Hydrocarbons					Gross Parameters				Petroleum Hydrocarbon Fractions								PAHs	Volatile Organic Compounds										
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Benzen ug/m3	Ethylbenzen ug/m3	Toluen ug/m3	Xylene ug/m3	Styren ug/m3	VHv6- ug/m3	VPHv (C6-C13) ug/m3	F1 (C6-C10) ug/m3	F2 (>C10-C16) ug/m3	Aliphatics C6-C8 ug/m3	Aliphatics >C8-C10 ug/m3	Aliphatics >C10-C12 ug/m3	Aliphatics >C12-C16 ug/m3	Aromatics C6-C8 ug/m3	Aromatics >C8-C10 ug/m3	Aromatics >C10-C12 ug/m3	Aromatics >C12-C16 ug/m3	Naphthalen ug/m3	1,3-Butadiene ug/m3	n-Decane ug/m3	1,2-Dibromo ethane ug/m3	1,2-Dichloro ethane ug/m3	n-Hexane ug/m3	Isopropyl benzene ug/m3	MTBE ug/m	Methyl cyclo hexane ug/m3	1,2,3-Tri methyl benzene ug/m3	1,2,4-Tri methyl benzene ug/m3	1,3,5-Tri methyl benzene ug/m3
MAA	MAA (2009)	2009 10 18	**8.5**	15.5	53.2	78	-	2,390	**2,190**	-	1,130	383	276	417	718	61.7	93.5	-	-	**5**	-	24.7	-	-	19.6	1.2	-	5.6	10.7	**31.3**	**9.7**
	GR1 (MAA)	Duplicate	**9.4**	14.4	42.2	73.4	-	1,920	**1,740**	-	952	329	267	329	624	51.6	87.7	-	-	**3.8**	-	22.7	-	-	15.8	1.1	-	4.2	10.5	**30.5**	**9.5**
	QA/QC RPD%		10	7	23	6	-	22	23	-	17	15	3	24	14	18	6	-	-	27	-	8	-	-	21	9	-	29	2	3	2
	MAA (2010)	2010 09 08	**4.7**	10.5	15	58.7	2.6	< 2,200	< 2,200[a]	< 1,300	< 870	< 2,200	< 2,200	< 2,200	< 2,200	-	< 2,200	< 2,200	< 2,200	< 6.5[a]	< 4.3[a]	11	< 1.1[a]	< 0.87	17	< 1.1	< 11	< 11	-	**10.8**	2.5
	GR1	Duplicate	**5.8**	16.7	19.3	93.7	3.3	< 2,100	< 2,100[a]	< 1,300	< 840	< 2,100	< 2,100	< 2,100	< 2,100	-	< 2,100	< 2,100	< 2,100	< 6.3[a]	< 4.2[a]	17	< 1[a]	< 0.84	22	< 1	< 10	< 10	-	**14.6**	3.3
	QA/QC RPD%		21	46	25	46	*	*	*	*	*	*	*	*	*	-	*	*	*	*	*	43	*	*	26	*	*	*	-	30	28
OAA	OAA (2009)	2009 10 18	0.3	0.25	1	2.4	-	370	365	-	66	6	8.2	66	-	< 5.21	2.6	-	-	< 0.03	-	0.39	-	-	0.17	< 0.07	-	< 0.07	1	1.4	0.35
BC Standard																															
CSR Residential Land Use (RL)			1.5	1,000	5,000	100	1,000	n/a	1,000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3	2	2,500	0.5	7	700	400	3,000	1,500	n/a	7	3.5

All terms defined within the body of SNC-Lavalin's report.

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard/guideline.

* RPDs are not calculated where one or more concentrations are less than five times RDL.

SHADOW Concentration greater than CSR Residential Land Use (RL) Standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.

TABLE 33: Surface Sample Log – JJJ Gravel Pit

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Sample Type	Description	North (m)	East (m)	Depth (m)	Headspace (ppm)
SS16-01-01	SS16-01-01	2016 10 18	Surface	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612427.9	606404.6	0.3	0
SS16-01-02	SS16-01-02	2016 10 18	Surface	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612441.3	606387.7	0.3	0
SS16-01-03	SS16-01-03	2016 10 18	Surface	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612459.1	606373.3	0.3	0
SS16-01-04	SS16-01-04	2016 10 18	Surface	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612444.0	606360.6	0.3	0
SS16-01-05	SS16-01-05	2016 10 18	Surface	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612426.7	606374.7	0.3	0
SS16-01-06	SS16-01-06	2016 10 18	Surface	SAND and GRAVEL, brown, medium dense, dry, some organics.	6612410.0	606392.3	0.3	0
SS16-02-01	SS16-02-01	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots, some organics.	6612313.4	606502.7	0.3	0
SS16-02-02	SS16-02-02	2016 10 16	Surface	SAND, trace gravel, fine, brown, loose, damp, some roots, some organics.	6612334.8	606485.3	0.3	0
SS16-02-03	SS16-02-03	2016 10 16	Surface	SAND, trace gravel, fine, brown, loose, damp, some roots, some organics.	6612350.7	606476.1	0.3	0
SS16-02-04	SS16-02-04	2016 10 16	Surface	SAND, trace gravel, fine, brown, loose, damp, some roots, some organics.	6612341.2	606450.1	0.3	0
SS16-02-05	SS16-02-05	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots.	6612320.4	606463.4	0.3	0
SS16-02-06	SS16-02-06	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots.	6612302.5	606471.8	0.3	0
	SS16-02-07	2016 10 16	Surface	Blind field duplicate of SS16-02-06.	6612302.5	606471.8	0.3	0
SS16-03-01	SS16-03-01	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots, some organics.	6612241.1	606549.5	0.3	0
SS16-03-02	SS16-03-02	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots, some organics.	6612258.2	606540.7	0.3	0
SS16-03-03	SS16-03-03	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots, some organics.	6612275.5	606530.7	0.3	0
SS16-03-04	SS16-03-04	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots, some organics.	6612267.4	606504.9	0.3	0
SS16-03-05	SS16-03-05	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots.	6612248.4	606517.6	0.3	0
SS16-03-06	SS16-03-06	2016 10 16	Surface	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp, some roots.	6612225.5	606529.4	0.3	0
	SS16-03-07	2016 10 16	Surface	Blind field duplicate of SS16-03-06.	6612225.5	606529.4	0.3	0

TABLE 34: Summary of Analytical Results for Soil - Hydrocarbons – JJJ Gravel Pit

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Monocyclic Aromatic Hydrocarbons					Gross Parameters			Petroleum Hydrocarbon Fractions				MTBE
					Benzene µg/g	Ethylbenzen µg/g	Toluene µg/g	Xylenes µg/g	Styrene µg/g	VPH (C6-C10) µg/g	LEPH (C10-C19) µg/g	HEPH (C19-C32) µg/g	F1-BTEX µg/g	F2 (>C10-C16) µg/g	F3 (>C16-C34) µg/g	F4 (>C34-C50) µg/g	MTBE µg/g
SS16-01-01	SS16-01-01	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	46	30	< 0.10
SS16-01-02	SS16-01-02	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-01-03	SS16-01-03	2016 10 18	0.3	0	< 0.0050	< 0.010	0.021	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	30	16	< 0.10
SS16-01-04	SS16-01-04	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-01-05	SS16-01-05	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-01-06	SS16-01-06	2016 10 18	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-01	SS16-02-01	2016 10 16	0.3	0	0.022	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	13	< 10	< 0.10
SS16-02-02	SS16-02-02	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-03	SS16-02-03	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-04	SS16-02-04	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-05	SS16-02-05	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-02-06	SS16-02-06	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	10	< 10	< 0.10
	SS16-02-07	Duplicate	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	18	< 10	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
SS16-03-01	SS16-03-01	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	17	< 10	< 0.10
SS16-03-02	SS16-03-02	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	12	< 10	< 0.10
SS16-03-03	SS16-03-03	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	10	< 10	< 0.10
SS16-03-04	SS16-03-04	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-03-05	SS16-03-05	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
SS16-03-06	SS16-03-06	2016 10 16	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	< 10	< 10	< 0.10
	SS16-03-07	Duplicate	0.3	0	< 0.0050	< 0.010	< 0.020	< 0.040	< 0.030	< 10	< 100	< 100	< 10	< 10	28	29	< 0.10
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*
Federal Guideline/Standard																	
CCME CEQG Residential Coarse-Grained Surface (RL Surface)[b]					0.03[d]	0.082	0.1	11	5	n/a	n/a	n/a	30	150	300	2,800	n/a
BC Standard																	
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.035	15	0.5	6.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	4,000

Associated Maxxam file(s): B692861.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained Surface (RL Surface) Guideline

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) standard

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[d] Guidelines use 10-5 incremental risk.

TABLE 35: Summary of Analytical Results for Soil - Polycyclic Aromatic Hydrocarbons – JJJ Gravel Pit

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Field Screen[a] (ppm)	Polycyclic Aromatic Hydrocarbons																			
					Naphthalene µg/g	2-Methylnaphthalene µg/g	Acenaphthylene µg/g	Acenaphthene µg/g	Fluorene µg/g	Phenanthrene µg/g	Anthracene µg/g	Fluoranthene µg/g	Pyrene µg/g	Benzo(a) anthracene µg/g	Chrysene µg/g	Benzo(b) fluoranthene µg/g	Benzo(b+j) fluoranthene µg/g	Benzo(k) fluoranthene µg/g	Benzo(a) pyrene µg/g	Indeno(1,2,3-cd) pyrene µg/g	Dibenz(a,h) anthracene µg/g	Benzo(g,h,i) perylene µg/g	B(a)P TPE µg/g	Index of Additive Cancer Risk µg/g
SS16-01-01	SS16-01-01	2016 10 18	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-01-02	SS16-01-02	2016 10 18	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-01-03	SS16-01-03	2016 10 18	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-01-04	SS16-01-04	2016 10 18	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-01-05	SS16-01-05	2016 10 18	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-01-06	SS16-01-06	2016 10 18	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-02-01	SS16-02-01	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-02-02	SS16-02-02	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-02-03	SS16-02-03	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-02-04	SS16-02-04	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-02-05	SS16-02-05	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-02-06	SS16-02-06	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
	SS16-02-07	Duplicate	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SS16-03-01	SS16-03-01	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-03-02	SS16-03-02	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-03-03	SS16-03-03	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-03-04	SS16-03-04	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-03-05	SS16-03-05	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
SS16-03-06	SS16-03-06	2016 10 16	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
	SS16-03-07	Duplicate	0.3	0	< 0.010	< 0.020	< 0.0050	< 0.0050	< 0.020	< 0.010	< 0.0040	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.050	< 0.050	< 0.050	0.041	0.31
	QA/QC RPD%				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Federal Guideline																								
CCME CEQG Residential Coarse-Grained Surface (RL Surface)[b]					0.013	n/a	320	0.28	0.25	0.046	2.5	15.4	7.7	1	6.2	1	1	1	0.6	1	1	n/a	5.3	1
BC Standard																								
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[c]					0.6	60	n/a	950	600	5	2.5	50	10	1	200	1	1	1	5	1	1	n/a	n/a	n/a

Associated Maxxam file(s): B692861.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained Surface (RL Surface) Guideline

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) standard

[a] Field screening results are measured based on a 'dry headspace' method using a combustible gas meter calibrated to a hexane standard.
[b] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[c] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).

TABLE 36: Summary of Analytical Results for Soil - Total Metals – JJJ Gravel Pit

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Depth Interval (m)	Phys pH pH	Aluminu µg/g	Total Metals Antimon µg/g	Arsenic µg/g	Barium µg/g	Beryllium µg/g	Cadmium µg/g	Chromium µg/g	Cobalt µg/g	Copper µg/g	Iron µg/g	Lead µg/g	Lithium µg/g	Manganese µg/g	Mercury µg/g	Molybdenum µg/g	Nickel µg/g	Selenium µg/g	Silver µg/g	Strontium µg/g	Thallium µg/g	Tin µg/g	Uranium µg/g	Vanadium µg/g	Zinc µg/g	Zirconium µg/g
SS16-01-01	SS16-01-01	2016 10 18	0.3	7.60	11,700	0.43	6.37	204	0.62	0.501	31.3	9.25	15.3	24,400	13.8	13.0	453	< 0.050	0.63	30.6	< 0.50	0.098	22.8	0.097	0.66	0.881	41.1	72.4	7.11
SS16-01-02	SS16-01-02	2016 10 18	0.3	7.79	12,700	0.43	6.83	216	0.58	0.380	31.3	8.88	12.8	26,100	16.0	14.2	376	< 0.050	0.72	29.1	< 0.50	0.122	19.9	0.084	0.69	0.651	42.5	83.6	7.20
SS16-01-03	SS16-01-03	2016 10 18	0.3	***8.43***	8,350	0.46	5.91	157	0.42	0.348	24.3	7.94	13.8	18,300	11.9	9.2	293	< 0.050	0.60	23.6	< 0.50	0.071	29.3	0.077	0.38	0.608	32.3	55.0	6.17
SS16-01-04	SS16-01-04	2016 10 18	0.3	***8.63***	7,300	0.41	5.90	145	< 0.40	0.331	24.1	8.31	15.8	19,100	7.14	10.7	338	< 0.050	0.55	27.4	< 0.50	0.083	51.8	0.096	0.39	0.615	30.0	55.3	4.18
SS16-01-05	SS16-01-05	2016 10 18	0.3	***8.59***	5,900	0.41	5.30	120	< 0.40	0.262	18.3	6.67	13.3	14,300	7.35	7.9	267	< 0.050	0.53	22.1	< 0.50	0.065	30.9	0.083	0.27	0.493	25.4	46.3	3.17
SS16-01-06	SS16-01-06	2016 10 18	0.3	***8.51***	7,530	0.41	5.85	150	< 0.40	0.264	21.5	8.75	12.7	17,200	8.01	9.6	408	< 0.050	0.52	22.9	< 0.50	0.065	34.3	0.085	0.39	0.647	29.0	51.5	3.87
SS16-02-01	SS16-02-01	2016 10 16	0.3	***8.39***	10,000	0.52	6.57	202	0.54	0.344	24.5	8.69	13.8	20,700	14.3	12.5	446	< 0.050	0.67	25.1	< 0.50	0.090	32.2	0.101	0.55	0.606	34.2	68.3	4.62
SS16-02-02	SS16-02-02	2016 10 16	0.3	***8.63***	7,290	0.47	6.38	153	< 0.40	0.276	22.7	8.38	17.4	18,500	8.88	11.1	341	< 0.050	0.57	26.0	< 0.50	0.068	58.5	0.086	0.37	0.615	28.5	50.0	3.71
SS16-02-03	SS16-02-03	2016 10 16	0.3	***8.50***	7,360	0.49	5.90	146	< 0.40	0.220	22.5	7.90	15.6	17,900	9.45	10.5	313	< 0.050	0.65	24.4	< 0.50	0.077	48.2	0.095	0.36	0.609	29.0	50.3	4.30
SS16-02-04	SS16-02-04	2016 10 16	0.3	***8.85***	5,450	0.45	4.74	84.0	< 0.40	0.218	17.9	7.91	13.4	15,800	5.35	10.0	301	< 0.050	0.38	24.0	< 0.50	0.077	65.4	0.063	0.29	0.595	22.1	42.2	2.33
SS16-02-05	SS16-02-05	2016 10 16	0.3	7.85	8,590	0.37	5.03	161	0.47	0.294	21.2	6.98	9.88	17,600	7.38	9.5	323	< 0.050	0.63	20.7	< 0.50	0.053	34.7	0.080	0.46	0.529	31.5	54.3	3.45
SS16-02-06	SS16-02-06	2016 10 16	0.3	***8.28***	7,980	0.35	5.04	158	0.42	0.281	19.3	6.56	9.47	15,700	7.85	8.6	317	< 0.050	0.59	19.6	< 0.50	0.081	26.2	0.071	0.43	0.457	29.0	53.7	2.72
	SS16-02-07	Duplicate	0.3	***8.22***	8,510	0.46	5.92	162	0.43	0.257	21.6	6.76	10.8	17,300	8.48	8.6	321	< 0.050	0.67	21.0	< 0.50	0.053	32.6	0.073	0.43	0.461	33.8	56.9	2.67
	QA/QC RPD%			*	6	*	16	2	*	9	11	3	13	10	8	*	1	*	13	7	*	*	22	*	*	1	15	6	2
SS16-03-01	SS16-03-01	2016 10 16	0.3	***8.32***	6,890	0.55	6.42	220	< 0.40	0.408	20.1	7.43	15.8	16,300	10.2	11.5	338	< 0.050	0.66	24.2	< 0.50	0.083	48.8	0.085	0.37	0.730	26.3	65.8	2.42
SS16-03-02	SS16-03-02	2016 10 16	0.3	***8.35***	7,650	0.55	7.42	225	< 0.40	0.333	22.2	8.55	16.7	18,100	14.9	12.9	356	< 0.050	0.69	25.8	< 0.50	0.115	46.6	0.099	0.41	0.727	27.9	70.9	2.44
SS16-03-03	SS16-03-03	2016 10 16	0.3	***8.27***	7,020	0.52	6.62	170	< 0.40	0.331	19.6	7.60	13.6	16,700	10.9	11.9	328	< 0.050	0.68	23.6	< 0.50	0.091	31.4	0.093	0.42	0.684	25.5	61.8	2.52
SS16-03-04	SS16-03-04	2016 10 16	0.3	***8.63***	5,670	0.43	5.80	154	< 0.40	0.335	16.6	6.69	13.7	14,300	8.79	9.0	333	< 0.050	0.57	20.9	< 0.50	0.087	50.9	0.081	0.28	0.494	21.9	50.6	2.26
SS16-03-05	SS16-03-05	2016 10 16	0.3	***8.82***	3,430	0.44	4.77	94.3	< 0.40	0.212	11.1	4.93	9.23	9,590	5.65	5.3	190	< 0.050	0.45	16.0	< 0.50	0.058	48.0	0.055	0.18	0.361	16.8	37.7	1.93
SS16-03-06	SS16-03-06	2016 10 16	0.3	***8.76***	3,560	0.43	3.92	109	< 0.40	0.318	14.0	4.85	9.36	9,690	5.15	5.8	198	< 0.050	0.40	16.0	< 0.50	0.067	56.3	0.055	0.19	0.397	16.6	37.6	1.96
	SS16-03-07	Duplicate	0.3	***9.00***	3,740	0.45	4.22	123	< 0.40	0.365	11.7	4.76	9.35	9,580	4.87	5.7	198	< 0.050	0.50	16.2	< 0.50	0.058	52.3	0.060	0.15	0.408	18.0	34.9	1.85
	QA/QC RPD%			*	5	*	7	12	*	14	18	2	0	1	6	*	0	*	*	1	*	*	7	*	*	3	8	7	*
Federal Guideline																													
CCME CEQG Residential Coarse-Grained Surface (RL Surface)[a]				6.0 - 8.0	n/a	20	12	500	4	10	64	50	63	n/a	140	n/a	n/a	6.6	10	45	1	20	n/a	1	50	23	130	200	n/a
BC Standard																													
CSR Low Density Residential Land Use (RLLD) (< 3.0m)[b]				n/a	40,000	20	10	350	30 - 85[c]	3 - 20[c]	60	25	150[c]	35,000	120[c]	30	2,000	10	15	70 - 150[c]	1	20	9,500	9	50	30	100	150 - 450[c]	n/a

Associated Maxxam file(s): B692861.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

BOLD Concentration greater than CCME CEQG Residential Coarse-Grained Surface (RL Surface) Guideline

SHADOW Concentration greater than CSR Low Density Residential Land Use (RLLD) standard

[a] Pathways Included: Eco Soil Contact, Management Limit, Offsite Migration, Protection of Groundwater for Freshwater Aquatic Life, Soil and Food Ingestion, Direct Contact (particulate inhalation), Soil Dermal Contact, Soil Ingestion, Vapour Inhalation (indoor, slab-on-grade), Protection of Potable Groundwater, Historical Guideline, Soil General.
[b] The site-specific factors used for determining the matrix standards for this site include: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, and groundwater flow to surface water used by freshwater aquatic life (whichever is most stringent).
[c] Standard is pH dependent.

TABLE 37: Summary of Analytical Results for Groundwater - Hydrocarbons – JJJ Gravel Pit

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Monocyclic Aromatic Hydrocarbons					Gross Parameters					Petroleum Hydrocarbon Fractions				MTBE
			Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	Styrene µg/L	VH (C6-C10) µg/L	VPH (C6-C10) µg/L	EPH (C10-C19) µg/L	LEPH (C10-C19) µg/L	EPH (C19-C32) µg/L	F1-BTEX µg/L	F2 (>C10-C16) µg/L	F3 (>C16-C34) µg/L	F4 (>C34-C50) µg/L	MTBE µg/L
MW16-01	MW16-01-160910	2016 09 10	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	< 300	< 150	< 200	260	< 4.0
	MW16-A-160910	Duplicate	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	< 300	< 150	< 200	< 200	< 4.0
	QA/QC RPD%		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW16-03	MW16-03-160910	2016 09 10	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	< 300	< 150	< 200	220	< 4.0
MW16-06	MW16-06-160910	2016 09 10	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	< 300	< 150	< 200	< 200	< 4.0
MW16-07	MW16-07-160910	2016 09 10	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	650	**650**	11,000	< 300	< 150	16,000	17,000	< 4.0
MW16-08	MW16-08-160910	2016 09 10	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 300	< 300	< 200	< 200	< 200	< 300	< 150	< 200	< 200	< 4.0
Federal Guideline																	
Canadian Drinking Water Quality Guidelines (CDWQG)			5	1.6	24	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15
FGQG Tier 2 Residential Land Use (RL)[a,b]			140	16,000	83	3,900	72	n/a	n/a	n/a	n/a	n/a	810	1,300	n/a	n/a	340
BC Standard																	
CSR Drinking Water (DW)			5	140	60	90	800	15,000[c]	n/a	5,000[c]	n/a	n/a	n/a	n/a	n/a	n/a	95
CSR Aquatic Life (AW)[b]			400	2,000	5	300	720	15,000[c]	1,500	5,000[c]	500	n/a	n/a	n/a	n/a	n/a	34,000

Associated Maxxam file(s): B679512.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

SHADED Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline

BOLD Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline

OUTLINE Concentration greater than CSR Drinking Water (DW) standard

SHADOW Concentration greater than CSR Aquatic Life (AW) standard

[a] Standard to protect freshwater aquatic life.
[b] Guideline for coarse grained soil.
[c] Applicable at all sites irrespective of water use.

TABLE 38: Summary of Analytical Results for Groundwater - Polycyclic Aromatic Hydrocarbons – JJJ Gravel Pit

Sample Location		MW16-01			MW16-03	MW16-06	MW16-07	MW16-08	Federal Guideline		BC Standard	
Sample ID Sample Date (yyyy mm dd)		MW16-01-160910 2016 09 10	MW16-A-160910 Duplicate of MW16-01-160910	QA/QC RPD %	MW16-03-160910 2016 09 10	MW16-06-160910 2016 09 10	MW16-07-160910 2016 09 10	MW16-08-160910 2016 09 10	Canadian Drinking Water Quality Guidelines (CDWQG)	FGQG Tier 2 Residential Land Use (RL)[b,c]	CSR Drinking Water (DW)	CSR Aquatic Life (AW)[b]
Parameter	Units	Analytical Results										
Polycyclic Aromatic Hydrocarbons												
Naphthalene	µg/L	< 0.10	< 0.10	*	< 0.10	< 0.10	< 0.10	< 0.10	n/a	1.1	80	10
2-Methylnaphthalene	µg/L	< 0.10	< 0.10	*	< 0.10	< 0.10	< 0.10	< 0.10	n/a	180	15	n/a
Acenaphthylene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	46	n/a	n/a
Acenaphthene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	5.8	250	60
Fluorene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	3	150	120
Phenanthrene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	0.4	n/a	3
Anthracene	µg/L	< 0.010	< 0.010	*	< 0.010	< 0.010	< 0.010	< 0.010	n/a	0.012	1,000	1
Acridine	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	0.05	n/a	0.5
Fluoranthene	µg/L	< 0.020	< 0.020	*	< 0.020	< 0.020	0.025	< 0.020	n/a	0.04	150	2
Pyrene	µg/L	< 0.020	< 0.020	*	< 0.020	< 0.020	< 0.020	< 0.020	n/a	0.025	100	0.2
Benzo(a)anthracene	µg/L	< 0.010	< 0.010	*	< 0.010	< 0.010	< 0.010	< 0.010	n/a	0.018	0.07	1
Chrysene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	1.4	7	1
Benzo(b+j)fluoranthene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	0.48	0.07	n/a
Benzo(k)fluoranthene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	0.48	n/a	n/a
Benzo(a)pyrene	µg/L	< 0.0090	< 0.0090	*	< 0.0090	< 0.0090	< 0.0090	< 0.0090	0.04	0.015	0.01	0.1
Indeno(1,2,3-cd)pyrene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	0.21	n/a	n/a
Dibenz(a,h)anthracene	µg/L	< 0.050[a]	< 0.050[a]	*	< 0.050[a]	< 0.050[a]	< 0.050[a]	< 0.050[a]	n/a	0.26	0.01	n/a
Benzo(g,h,i)perylene	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	< 0.050	< 0.050	n/a	0.17	n/a	n/a
Quinoline	µg/L	< 0.24[a]	< 0.24[a]	*	< 0.24[a]	< 0.24[a]	< 1.6[a]	< 0.24[a]	n/a	3.4	0.05	34

Associated Maxxam file(s): B679512.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Standard to protect freshwater aquatic life.
[c] Guideline for coarse grained soil.

TABLE 39: Summary of Analytical Results for Groundwater - Dissolved Metals – JJJ Gravel Pit

Sample Location		MW16-01			MW16-03	MW16-06	MW16-07	MW16-08	Federal Guideline		BC Standard	
Sample ID		MW16-01-160910	MW16-A-160910	QA/QC	MW16-03-160910	MW16-06-160910	MW16-07-160910	MW16-08-160910	Canadian Drinking Water Quality Guidelines (CDWQG)	FGQG Tier 2 Residential Land Use (RL)[b,c]	CSR Drinking Water (DW)	CSR Aquatic Life (AW)[b]
Sample Date (yyyy mm dd)		2016 09 10	Duplicate	RPD %	2016 09 10	2016 09 10	2016 09 10	2016 09 10				
Parameter	Units	Analytical Results										
Physical Parameters												
pH (field)	pH	7.78	7.78	*	7.55	7.68	-	7.85	7.0 - 10.5	6.5 - 9.0	n/a	n/a
Hardness	mg/L	442	470	6	544	419	312	551	n/a	n/a	n/a	n/a
Geochemical Indicators												
Dissolved Aluminum	µg/L	40.2	6.8	*	8.6	10.4	9.2[f]	7.2	100	100 (pH>=6.5)	9,500	n/a
Dissolved Calcium	mg/L	94.0	97.0	3	114	88.5	65.9	115	n/a	n/a	n/a	n/a
Dissolved Iron	µg/L	5.3	< 5.0	*	19.8	74.5	13.2	32.3	300	300	6,500	n/a
Dissolved Magnesium	mg/L	50.4	55.3	9	62.9	48.0	35.9	64.2	n/a	n/a	n/a	n/a
Dissolved Manganese	µg/L	**54.7**	**55.5**	1	**58.3**	**188**	**638**	**436**	50	n/a	1,500	n/a
Dissolved Potassium	mg/L	1.91	2.01	5	2.65	6.23	35.4	2.74	n/a	n/a	n/a	n/a
Dissolved Sodium	mg/L	3.33	3.63	9	2.69	3.96	11.8	2.83	200	n/a	200	n/a
Dissolved Metals												
Antimony	µg/L	< 0.50	< 0.50	*	< 0.50	< 0.50	1.77	< 0.50	6	2,000	6	90
Arsenic	µg/L	< 0.10	< 0.10	*	0.44	1.11	0.50	< 0.10	10	5	10	50
Barium	µg/L	36.1	35.2	3	21.3	43.1	36.9	11.3	1,000	2,900	1,000	10,000
Beryllium	µg/L	< 0.10	< 0.10	*	< 0.10	< 0.10	< 0.10	< 0.10	n/a	5.3	8	1.5
Boron	µg/L	< 50	< 50	*	< 50	56	97	< 50	5,000	1,500	5,000	12,000
Cadmium[d]	µg/L	0.010	0.013	*	0.033	0.016	< 0.010	0.016	5	0.37 (H>=280)	5	4 (H >=210)
Chromium	µg/L	< 1.0	< 1.0	*	< 1.0	< 1.0	< 1.0	< 1.0	50	8.9	50[f]	10[f]
Cobalt	µg/L	< 0.50	< 0.50	*	0.73	1.67	6.36	0.80	n/a	n/a	20[g]	40
Copper	µg/L	1.21	0.29	*	0.40	0.42	0.57	0.37	1,000	4 (H>180)	1,500	90 (H >=200)
Lead	µg/L	< 0.20	< 0.20	*	< 0.20	0.23	< 0.20	< 0.20	10	7 (H>=180)	10	160 (H>=300)
Lithium	µg/L	**11.3**	**12.1**	*	**13.8**	**12.5**	**25.4**	**13.2**	n/a	n/a	8	n/a
Mercury	µg/L	< 0.010	< 0.010	*	< 0.010	< 0.010	< 0.010	< 0.010	1	0.026	1	0.25
Molybdenum	µg/L	< 1.0	< 1.0	*	< 1.0	6.4	72.3	< 1.0	n/a	73	250	10,000
Nickel	µg/L	1.2	1.3	*	1.6	2.9	21.6	< 1.0	n/a	150 (H>=180)	80	1,500 (H >=180)
Selenium	µg/L	***1.62***	***1.70***	5	0.18	***2.04***	***22.0***	< 0.10	50	1	10	20
Silver	µg/L	< 0.020	< 0.020	*	< 0.020	< 0.020	< 0.020	< 0.020	n/a	0.25	20	15 (H >100)
Strontium	µg/L	320	327	2	287	269	225	268	n/a	n/a	2,500	n/a
Thallium	µg/L	< 0.050	< 0.050	*	< 0.050	< 0.050	0.160	< 0.050	n/a	0.8	n/a	3
Tin	µg/L	< 5.0	< 5.0	*	< 5.0	< 5.0	< 5.0	< 5.0	n/a	n/a	2,500	n/a
Titanium	µg/L	< 5.0	< 5.0	*	< 5.0	< 5.0	< 5.0	< 5.0	n/a	100	n/a	1,000
Uranium	µg/L	2.37	2.30	3	2.72	1.97	3.87	2.33	20	15	20	85
Vanadium	µg/L	< 5.0	< 5.0	*	< 5.0	< 5.0	< 5.0	< 5.0	n/a	n/a	20	n/a
Zinc[e]	µg/L		6.0	*			< 5.0		5,000	30	3,000	2,400 (H 300-<400)
		< 5.0			5.0	5.0		5.8				2,400 (H >=400)
Zirconium	µg/L	< 0.50	< 0.50	*	< 0.50	< 0.50	< 0.50	< 0.50	n/a	n/a	n/a	n/a

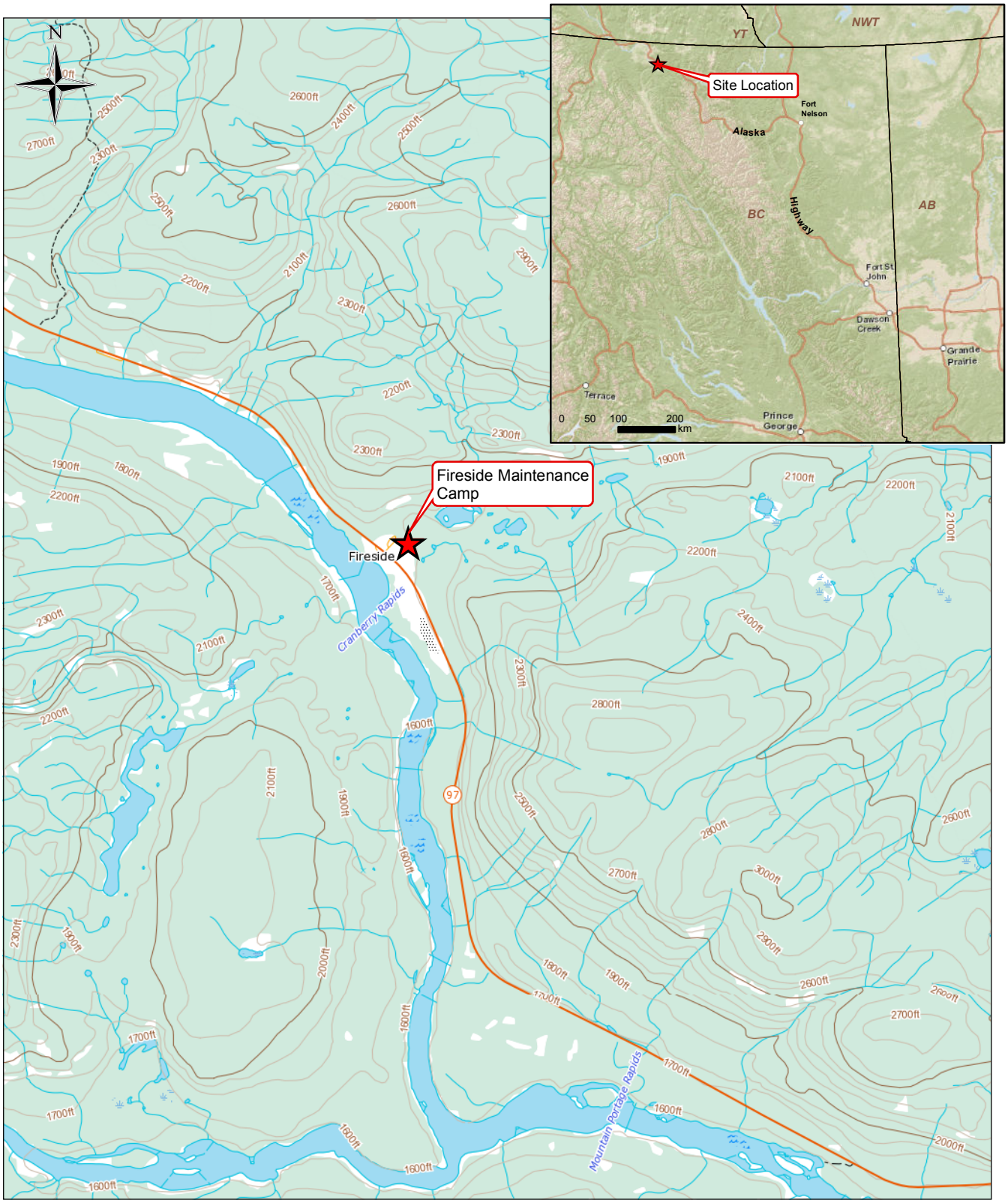
Associated Maxxam file(s): B679512.
All terms defined within the body of SNC-Lavalin's report.
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
- Denotes analysis not conducted.
n/a Denotes no applicable standard/guideline.
RPD Denotes relative percent difference.
* RPDs are not calculated where one or more concentrations are less than five times RDL.
RDL Denotes reported detection limit.

SHADED	Concentration greater than Canadian Drinking Water Quality Guidelines (CDWQG) Guideline
BOLD	Concentration greater than FGQG Tier 2 Residential Land Use (RL) Guideline
OUTLINE	Concentration greater than CSR Drinking Water (DW) standard
SHADOW	Concentration greater than CSR Aquatic Life (AW) standard

[a] Laboratory detection limit exceeds regulatory standard/guideline.
[b] Standard to protect freshwater aquatic life.
[c] Guideline for coarse grained soil.
[d] There is no Cadmium standard specified for H > 210; therefore, the standard for H=150-<210 is applied as a conservative comparison.
[e] There is no Zinc standard specified for H > 400; therefore, the standard for H=300-<400 is applied as a conservative comparison.
[f] Based on pH of other wells, pH of MW16-07 is assumed to be greater than 6.5.
[g] Interim BC MoE Regional Background Estimate (Protocol 9 Determining Background Groundwater Quality).

Drawings

- 636200-1001 Fireside Maintenance Camp Site Location
- 636200-1002 Site Plan
- 636200-1003 Detailed Soil Analytical Results – Remedial Excavation – AEC 1
- 636200-1004 Detailed Soil Analytical Results – Remedial Excavation – AEC 2
- 636200-1005 Detailed Soil Analytical Results – Remedial Excavation – AEC 3
- 636200-1006 Detailed Soil Analytical Results – Remedial Excavation – AEC 5
- 636200-1007 Detailed Soil Analytical Results – Remedial Excavation – AEC 6 and AEC 7
- 636200-1008 JJJ STF Site Location
- 636200-1009 Site Plan – JJJ Gravel Pit
- 636200-1010 Soil Treatment Facility #4 Design Specifications



LEGEND

★ Site Location

NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

SNC • LAVALIN

CLIENT NAME:	PROJECT LOCATION:
Public Services and Procurement Canada	Fireside Maintenance Camp Alaska Highway, BC

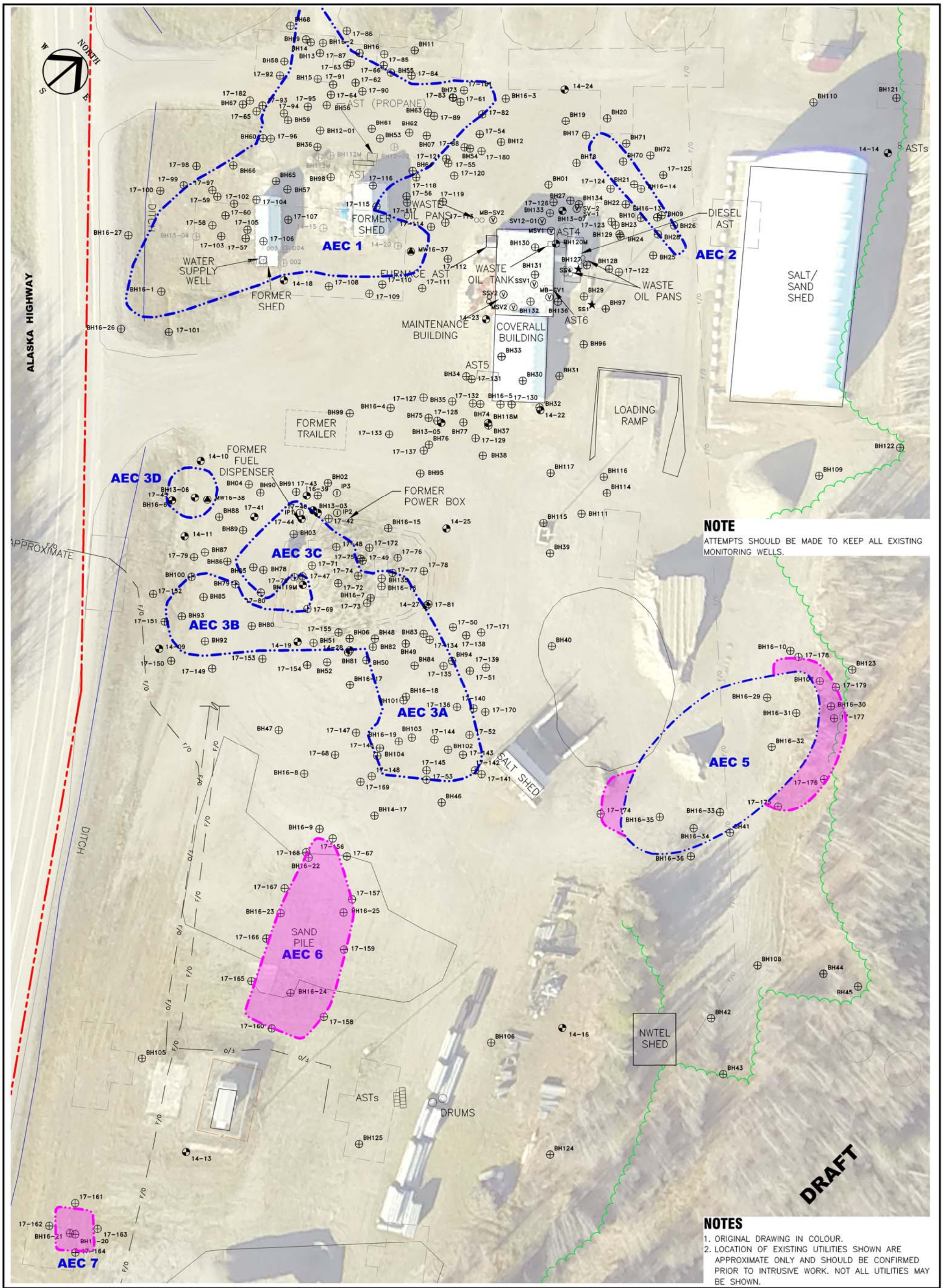
Fireside Maintenance Camp Site Location

0 0.5 1 2 3 4 Kilometers

BY: PB	DATE: 2017-03-03	REF No: 636200-1001	REV: 0
CHK'D: CS	SCALE: 1:50,000		

MXD Path: P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside\4.0 Execution\4.5 GIS and Drawings (Secure)\GIS\MapSeries\623385-001.mxd

Project Path: "P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside"



NOTE

ATTEMPTS SHOULD BE MADE TO KEEP ALL EXISTING MONITORING WELLS.

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

LEGEND

0 10 20 30 40 METRES

- SUBJECT PROPERTY LIMITS
- TREE LINE
- FENCE
- FORMER SITE CONFIGURATION
- SITE FEATURE
- FY 2017/2018 PROPOSED APPROXIMATE EXCAVATION LIMIT
- FY 2016/2017 EXCAVATION BOUNDARY
- FIBRE OPTIC LINE – UNDERGROUND
- APPROXIMATE CUT LINE
- FIBRE OPTIC LINE – OVERHEAD
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-03-26	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC • LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **SITE PLAN**

DWN BY: PES	SCALE: 1:800	DATE: 2018-01-19	DWG No: 636200-1002 REV.: 0
CHK'D: CS	PLOT: 20180323.1717	CADFILE: 636200R17	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R17.DWG

EXC16-1-127	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-127	1.5	<0.0050	<0.010	2.0	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	0.14

EXC16-1-416	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-416	4.5	<0.0050	0.042	0.044	1.4	54	1,800	<100	65	1,200	280	<50	0.99	0.18	0.051	0.36	0.016	<0.0050	<0.0050	<0.0050	<0.10

BH17-90	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-90-01	7.8 - 8.1	<0.005	0.14	<0.05	2.76	55	3,880	134	54	3,820	687	<20	2.7	<0.5	0.2	1.0	<0.6

BH17-82	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-82-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	224	<10	21	381	47	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	26	43	<10	29	99	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-05	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-06	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	96	<20	<10	65	58	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-07	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	115	<20	<10	98	62	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-08	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	110	<20	<10	78	57	<20	0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-09	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	83	<20	<10	67	47	<20	0.006	<0.005	<0.02	<0.02	<0.6
BH17-82-10	7.9 - 8.1	<0.005	<0.01	<0.05	<0.05	<10	221	<20	<10	194	85	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-1-097	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-097	1.5	<0.0050	<0.010	<0.020	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	0.14
EXC16-1-D9	DUP. OF ABOVE	<0.0050	<0.010	0.36	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	0.14

EXC16-1-412	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-412	4.0	<0.0050	0.11	0.040	3.0	190	3,000	150	160	2,100	460	<50	2.4	0.22	0.061	0.73	0.024	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-411	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-411	4.5	<0.0050	0.046	0.037	1.2	77	2,300	<100	80	1,600	380	<50	1.1	0.21	0.079	0.43	0.020	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-430	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-430	6.5	<0.0050	<0.010	0.039	0.13	170	1,200	<100	220	760	300	<50	0.0097	0.029	0.010	<0.0050	0.0072	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-429	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-429	7.5	<0.0050	<0.010	0.030	<0.040	56	870	<100	57	620	230	<50	0.0091	0.024	0.0080	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-107	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-107	0.5	<0.0050	<0.010	0.40	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	0.14

BH17-94	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-94-01	7.8 - 8.1	<0.005	<0.01	<0.05	<0.05	<10	398	<20	<10	405	100	<20	<0.005	<0.005	<0.02	0.08	<0.6

EXC16-1-470	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-470	2.5	<0.0050	<0.010	0.025	<0.040	41	2,100	<100	36	1,600	340	<50	0.016	0.0085	<0.0050	0.011	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-471	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-471	1.5	<0.0050	<0.010	<0.020	<0.040	61	3,300	130	58	2,700	460	<50	0.033	0.022	0.012	0.21	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-170	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-170	3.5	<0.0050	<0.010	<0.020	0.047	38	940	<100	49	730	190	<50	<0.0050	<0.0050	0.0063	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-169	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-169	3.5	<0.0050	<0.010	<0.020	<0.040	8.5	500	<100	12	390	140	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-432	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-432	6.5	<0.0050	<0.010	0.033	<0.040	56	1,100	<100	50	810	160	<50	0.24	0.030	0.0084	0.19	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-431	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-431	7.5	<0.0050	<0.010	0.052	0.13	64	1,700	<100	62	1,200	230	<50	0.46	0.028	0.048	0.24	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-402	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-402	8.0	<0.0050	<0.010	<0.020	<0.040	41	2,800	140	52	2,100	460	<50	0.050	0.19	0.30	0.16	0.034	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-473	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-473	6.2	<0.0050	<0.010	0.028	<0.040	49	190	380	51	120	460	190	0.017	<0.0050	0.0057	0.0088	<0.0040	<0.0050	<0.0050	<0.0050	<0.10
EXC16-1-D49	DUP. OF ABOVE	<0.0050	<0.010	<0.040	<0.040	<7.0	220	130	<10	160	200	62	0.0090	<0.0050	0.0056	0.0059	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-115	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-115	1.5	<0.0050	<0.010	<0.020	<0.040	<7.0	270	<100	<10	250	120	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	0.14

EXC16-1-202	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-202	3.5	<0.0050	<0.010	<0.020	<0.040	<10	160	<100	<10	130	86	26	0.015	<0.0050	<0.020	0.015	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-1-119	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-119	0.5	<0.0050	<0.010	0.16	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	0.14

EXC16-1-465	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-465	4.8	<0.0050	<0.010	<0.030	<0.040	<7.0	270	<100	<10	200	78	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-466	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-466	3.5	<0.0050	<0.010	<0.030	<0.040	<7.0	350	<100	<10	260	90	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-205	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-205	3.5	<0.0050	0.15	0.33	2.5	11	<100	<100	12	14	77	29	0.046	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31
EXC16-1-D22	DUP. OF ABOVE	<0.0050	0.018	0.023	0.23	<10	<100	<100	<10	20	53	19	0.069	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-1-433	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-433	7.5	<0.0050	<0.010	0.026	0.94	150	<100	<100	160	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

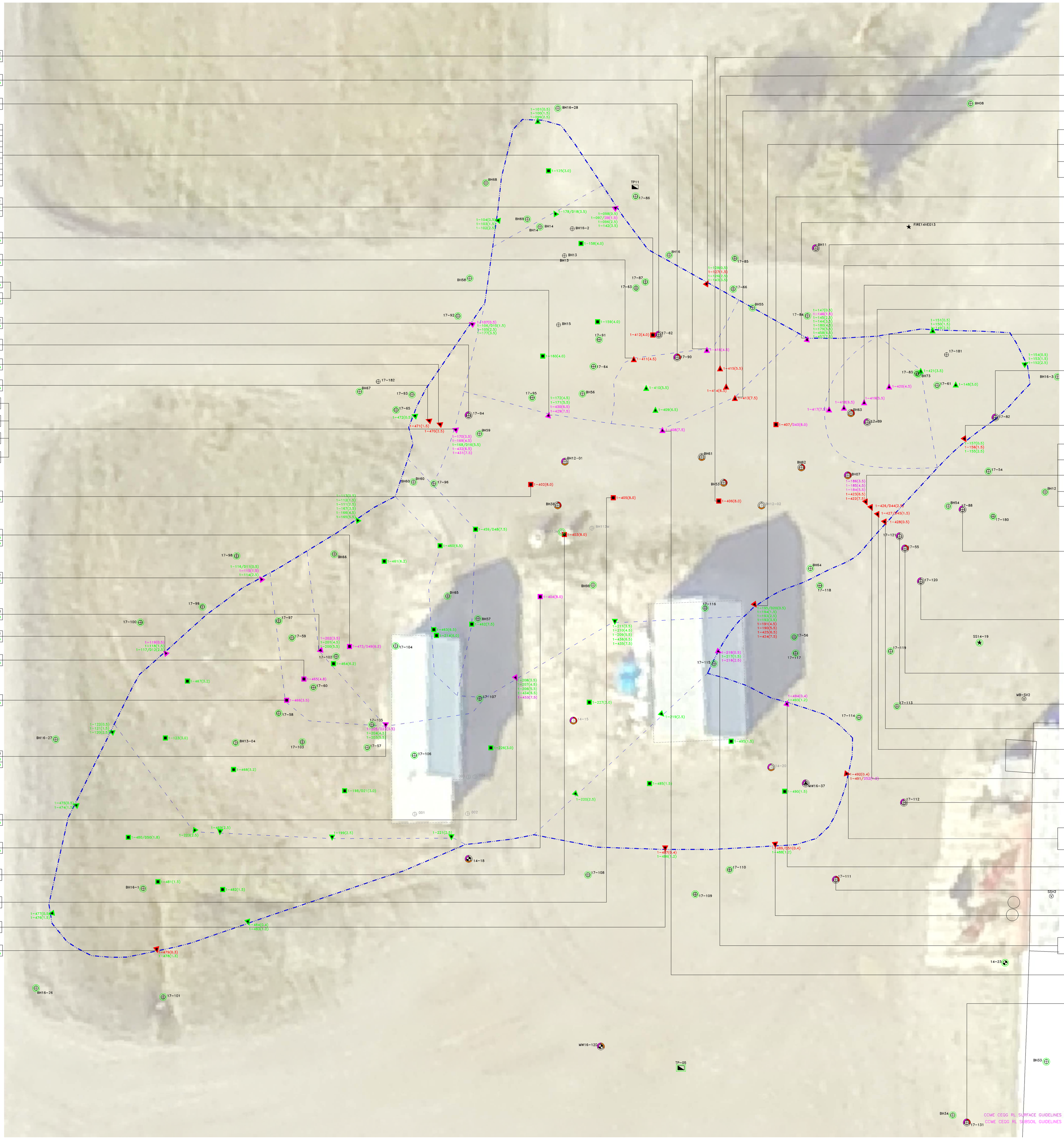
EXC16-1-404	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-404	8.0	<0.0050	<0.010	<0.040	0.66	30	<100	<100	41	43	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-403	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-403	8.0	<0.0050	<0.010	<0.030	<0.040	<7.0	2,300	330	<10	1,400	750	<50	<0.0050	0.019	0.018	<0.0050	0.016	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-405	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-405	8.0	<0.0050	<0.010	<0.040	<0.040	<7.0	3,300	350	<10	2,000	1,100	<50	0.0057	0.026	0.070	<0.0050	0.062	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-487	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-487	0.4	<0.0050	<0.010	<0.020	<0.040	41	3,100	2,800	51	2,800	3,200	1,300	0.39	0.23	0.47	0.32	0.018	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-479	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-479	0.3	<0.0050	<0.010	<0.020	<0.040	<7.0	120	2,600	<10	24	2,400	1,500	0.0092	<0.0050	<0.0050	0.013	0.028	<0.0050	0.0076	<0.0050	<0.10



EXC16-1-406	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-406	8.0	<0.0050	<0.010	0.058	0.33	140	9,700	1,400	160	6,600	3,300	<50	0.16	0.11	0.18	<0.050	0.24	<0.050	<0.050	<0.050	0.59

EXC16-1-415	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-415	5.5	<0.0050	0.26	0.050	7.7	380	4,500	200	490	3,300	720	<50	2.7	0.44	0.22	0.87	0.038	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-414	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-414	6.5	<0.0050	0.12	0.039	3.7	210	4,600	130	230	3,300	600	<50	1.8	0.43	0.21	0.56	0.024	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-413	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-413	7.5	<0.0050	0.022	0.040	0.85	130	2,800	190	120	2,200	680	<50	0.58	0.23	0.10	0.68	0.032	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-191	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-191	4.5	<0.0050	<0.010	<0.020	<0.040	13	3,000	120	<10	2,500	770	<50	0.025	0.068	0.036	<0.0062	0.016	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-190	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-190	5.5	<0.0050	<0.010	<0.020	<0.040	85	4,900	200	110	4,200	1,200	<50	<0.056	<0.035	0.053	<0.0050	0.021	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-425	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-425	6.5	<0.0050	<0.010	0.058	0.16	170	3,500	<100	170	2,800	510	<50	0.20	0.18	0.12	0.0092	0.056	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-424	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-424	7.5	<0.0050	<0.010	0.042	<0.040	74	2,700	<100	73	2,100	410	<50	0.15	0.16	0.10	<0.0050	0.062	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-407	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-407	8.0	<0.0050	<0.010	0.032	<0.040	19	2,400	370	20	1,200	1,000	<50	<0.0050	0.019	0.018	<0.0050	0.021	<0.0050	<0.0050	<0.0050	<0.10
EXC16-1-D43	DUP. OF ABOVE	<0.0050	<0.010	<0.040	<0.040	<7.0	1,800	290	<10	1,100	870	<50	<0.0050	0.013	0.013	<0.0050	0.020	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-146	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-146	1.5	0.026	0.014	0.24	0.045	<10	<100	<100	<10	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-1-417	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-417	7.5	<0.0050	<0.010	0.045	0.57	23	100	<100	26	63	<50	<50	0.026	0.010	0.0080	0.046	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-418	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-418	6.5	<0.0050	<0.010	0.049	0.24	22	1,200	<100	39	880	260	<50	0.41	0.14	0.11	0.45	0.021	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-419	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-419	5.5	<0.0050	<0.010	<0.040	0.047	13	560	<100	11	410	120	<50	0.31	0.077	0.048	0.21	0.0087	<0.0050	<0.0050	<0.0050	<0.10

BH17-89	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-89-01	7.9 - 8.2	<0.005	<0.01	<0.05	0.30	35	1,980	118	35	1,850	565	<20	<0.05	<0.05	<0.2	0.2	<0.6
BH17-89-02	DUP. OF ABOVE	<0.005	<0.01	<0.05	0.11	17	1,560	120	17	1,470	454	<20	<0.05	<0.05	<0.2	0.4	<0.6

EXC16-1-420	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-420	4.5	<0.0050	<0.010	0.030	0.53	<7.0	140	<100	<10	96	<50	<50	0.018	0.012	0.011	0.052	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

BH17-82	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-82-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	224	<10	21	381	47	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	26	43	<10	29	99	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-05	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-06	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	96	<20	<10	65	58	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-07	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	115	<20	<10	98	62	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-08	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	110	<20	<10	78	57	<20	0.005	<0.005	<0.02	<0.02	<0.6
BH17-82-09	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	83	<20	<10	67	47	<20	0.006	<0.005	<0.02	<0.02	<0.6
BH17-82-10	7.9 - 8.1	<0.005	<0.01	<0.05	<0.05	<10	221	<20	<10	194	85	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-1-156	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-156	1.5	0.056	<0.010	0.29	0.050	<10	<100	<100	<10	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-1-186	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-186	3.5	<0.0050	0.13	<0.020	1.1	32	1,400	230	24	970	630	<50	0.52	0.12	0.30	0.62	0.055	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-185	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-185	4.5	<0.0050	<0.010	<0.020	<0.040	44	1,700	320	59	1,000	940	<50	0.014	<0.0050	0.019	0.0073	0.041	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-184	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-184	5.5	<0.0050	<0.010	<0.020	<0.040	<7.0	1,000	<100	<10	710	350	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-423	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-423	6.5	0.0081	<0.010	0.065	<0.040	56	2,100	490	51	1,200	1,300	<50	<0.0050	0.013	0.036	<0.0050	0.039	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-422	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-422	7.5	<0.0050	<0.010	0.048	0.21	53	2,300	380	58	1,500	1,100	<50	0.066	0.062	0.068	0.029	0.19	<0.0050	<0.0050	<0.0050	<0.10

BH17-88	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-88-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	21	<10	<20	<20	<20	0.021	<0.005	<0.02	<0.02	<0.6
BH17-88-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-05	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-06	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-07	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-08	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	37	<20	<10	<20	35	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-09	7.3 - 7.6	<0.005	<0.01	<0.05	0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-88-10	7.8 - 8.1	0.008	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-120	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-120-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-05	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-06	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-07	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-120-08	6.4 - 6.7	<0.005	0.01	<0.05	0.14	10	1,450	159	10	1,080	563	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-120-09	7.3 - 7.6	0.005	0.01	0.06	0.14	<10	878	92	<10	612	332	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-120-10	7.9 - 8.1	<0.005	<0.01	<0.05	0.09	<10	691	84	<10	502	326	<20	<0.05	<0.05	<0.2	<0.2	<0.6

BH17-55	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-55-01	0.4 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	28	<10	<20	<20	45	0.012	<0.005	<0.02	<0.02	<0.6
BH17-55-04	2.4 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	35	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-55-07	5.0 - 5.2	0.006	<0.01	<0.05	0.05	<10	<20	<20	<10	<20	<20	63	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-55-11	7.5 - 7.6	0.010	<0.01	0.05	0.05	46	2,130	261	44	1,540	876	<20	<0.05	<0.05	<0.2	<0.2	<0.6

BH17-121	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-121-01	7.9 - 8.1	<0.005	<0.01	<0.05	<0.05	28	982	122	28	797	504	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-121-02	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	20	1,240	152	20	908	550	<20	<0.05	<0.05	<0.2	<0.2	<0.6

EXC16-1-428	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-428	0.5	0.013	2.6	0.74	18	1,000	9,400	<500	1,200	7,100	2,100	<50	12	2.5	4.9	2.6	0.24	<0.0050	<0.0050	<0.0050	<0.10

EXC16-1-427	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-427	1.5	0.016	1.6	0.10	19	1,100	13,000	690	1,200	10,000	3,100	<50	16	1.6	3.5	3.4	0.29	<0.0050	<0.0050	<0.0050	<0.10
EXC16-1-D45	DUP. OF ABOVE	0.017	1.6	0.13	19	1,300	13,000	1,300	1,400	8,600	3,200	<50	13	1.5	3.4	3.6	0.39	<0.050	<0.050	<0.050	0.59

EXC16-1-426	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-426	2.5	0.012	1.4	0.087	35	480	3,600	430	500	2,600	1,300	<50	3.1	0.55	1.1	2.0	0.16	<0.0050	<0.0050	<0.0050	<0.10
EXC16-1-D44	DUP. OF ABOVE	0.013	1.4	0.084	27	450	4,100	470	480	2,900	1,400	<50	3.8	0.60	1.3	2.2	0.15	<0.0050	<0.0050	<0.0050	<0.10

BH17-112	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-112-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	58	204	<10	<20	241	117	0.036	0.463	0.65	3.18	6.2
BH17-112-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-112-03	2.0 - 2.1	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-1-492	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-492	0.4	0.016	0.018	0.090	0.18	93	880	500	110	690	540	150	0.37	0.99	0.82	2.3	0.79	1.4	0.86	0.45	14

EXC16-1-491	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-491	1.2	0.017	<0.010	0.085	1.5	210	560	440	200	430	490	180	0.42	0.032	0.067	0.097	0.022	0.033	0.040	0.026	0.53
EXC16-1-D52	DUP. OF ABOVE	0.013	0.016	0.073	0.13	54	600	460	66	450	500	170	0.42	0.041	0.097	0.42	0.12	0.23	0.23	0.18	3.4

EXC16-1-494	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-494	0.4	0.013	0.055	0.069	0.86	17	650	560	20	470	600	190	0.36	0.052	0.10	0.11	0.016	0.0051	0.0083	<0.0050	0.10

BH17-111	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-111-02	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	2,660	5,760	<10	1,050	10,800	2,890	<0.2	<0.2	<1	2	<30
BH17-111-01	0.9 - 1.1	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-1-489	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-489	0.4	<0.0050	<0.010	0.033	0.060	100	3,000	1,300	110	2,300	1,700	660	0.99	0.089	0.15	0.10	0.013	0.0057	0.015	0.0062	0.16
EXC16-1-D51	DUP. OF ABOVE	<0.0050	<0.010	0.039	0.079	190	3,000	1,400	230	2,300	1,800	690	0.94	0.10	0.15	0.11	0.012	0.0059	0.012	<0.0050	0.13

EXC16-1-218	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-218	0.5	<0.0050	<0.010	<0.020	<0.040	<10	220	280	<10	190	480	180	0.041	0.012	0.039	0.065	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-1-216	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-216	2.5	<0.0050	<0.010	<0.020	<0.040	<10	710	190	<10	570	440	35	0.067	<0.0050	0.055	0.059	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-1-408	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-1-408	7.5	<0.0050	<0.010	0.033	<0.040	32	350	<100	31	240	94	<50	0.054	0.022	0.022	0.051	0.0059	<0.0050	<0.0050	<0.0050	<0.10

BH17-131	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-131-01	0.5 - 0.6	0.088	0.01	0.36	0.16	<10	28	63	<10	<20	63	29	0.005	<0.005	<0.02	<0.02	<0.6
BH17-131-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	30	58	<10	<20	57	26	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-131-03	2.3 - 2.6	0.020	<0.01	0.09	0.06	<10	36	58	<10	<20	65	25	0.007	<0.005	<0.02	0.02	<0.6
BH17-131-04	2.9 - 3.0	<0.005	<0.01	<0.05	<0.05	<10	28	187	<10	<20	203	96	<0.005	<0.005	<0.02	<0.02	<0.6

DRAFT

FEDERAL GUIDELINES

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b,j)F	B(a)P	IACR
CCME CEQG RL SURFACE GUIDELINES (<1.5m) (µg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	300	2,800	0.013	0.28	0.25	0.046	2.5	1	1	0.6	1
CCME CEQG RL SUBSOIL GUIDELINES (>1.5m) (µg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	2,500	10,000	0.013	0.28	0.25	0.046	2.5	1	1	0.6	1

CCME CEQG Residential Coarse-Grained

BC STANDARDS

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b,j)F	B(a)P	IACR
CSR RLLD STANDARDS (<3m) (µg/g)	0.035	15	0.5	6.5	200	1,000	1,000	N/A	N/A	N/A	N/A	0.6	950	600	5	2.5	1	1	5	N/A
CSR IL STANDARDS (>3m) (µg/g)	0.035	15	0.5	6.5	200	2,000	5,000	N/A	N/A	N/A	N/A	20	15,000	9,500	50	30	10	10	50	N/A

CSR Residential (RL)/Industrial (IL) Land Use

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (ug/g)

B	BENZENE	T	TOLUENE
E	ETHYLBENZENE	X	XYLENES
VPH	VOLATILE PETROLEUM HYDROCARBONS		
LEPH	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS		
HEPH	HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS		
F1	PETROLEUM HYDROCARBON FRACTION 1 (C6-C10 minus BTEX)		
F2	PETROLEUM HYDROCARBON FRACTION 2 (>C10-C16)		
F3	PETROLEUM HYDROCARBON FRACTION 3 (>C16-C34)		
F4	PETROLEUM HYDROCARBON FRACTION 4 (>C34)		
NAP	NAPTHALENE		
ACE	ACENAPTHALENE		
FLR	FLUORENE		
PHE	PHENANTHRENE		
ANT	ANTHRACENE		
B(a)A	BENZO (a) ANTHRACENE		
B(b,j)F	BENZO (b+j) FLOURANTHENE		
B(a)P	BENZO (a) PYRENE		
IACR	INDEX OF ADDITIVE CANCER RISK		
DUP	DUPLICATE LAB SAMPLE		

LEGEND

0 5 10 METRES

- ■ EXCAVATION FLOOR SAMPLE LOCATION
- ▲ EXCAVATION WALL SAMPLE LOCATION
- (1.0) EXCAVATION SAMPLE DEPTH (m)
- REMEDIAL EXCAVATION BOUNDARY
- LOCATION WHERE SOIL SAMPLE MEETS APPLICABLE GUIDELINES/STANDARDS FOR ALL PARAMETERS ANALYZED, SHOWN IN GREEN
- LOCATION WHERE SOIL SAMPLE EXCEEDS CCME CEQG RL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN MAGENTA
- LOCATION WHERE SOIL SAMPLE EXCEEDS CSR RLLD AND/OR IL STANDARDS FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN RED
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- ★ SURFICIAL SOIL SAMPLE LOCATION

LOCATION — ANALYTICAL SOIL RESULTS

EXC16-8B-106	Sample Depth	B	E	T	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	B(b,j)F	B(a)P	IACR
EXC16-8B-106	0.3	0.0062	<0.010	0.029	<10	<100	3,200	<10	<10	1,800	0.017	<0.0050	0.024	0.20	1.4	1.1	19

- EXCAVATION SAMPLE ID
- EXCAVATION SAMPLE DEPTH (m)
- CONCENTRATION(S) LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL SURFACE OR SUBSOIL GUIDELINES (µg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (µg/g)
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXCEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. REFER TO THE APPENDED DRAWINGS FOR DETAILED SOIL ANALYTICAL RESULTS OF HISTORICAL BOREHOLES, WELLS, TEST PITS AND SURFICIAL SAMPLES.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-03-26	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

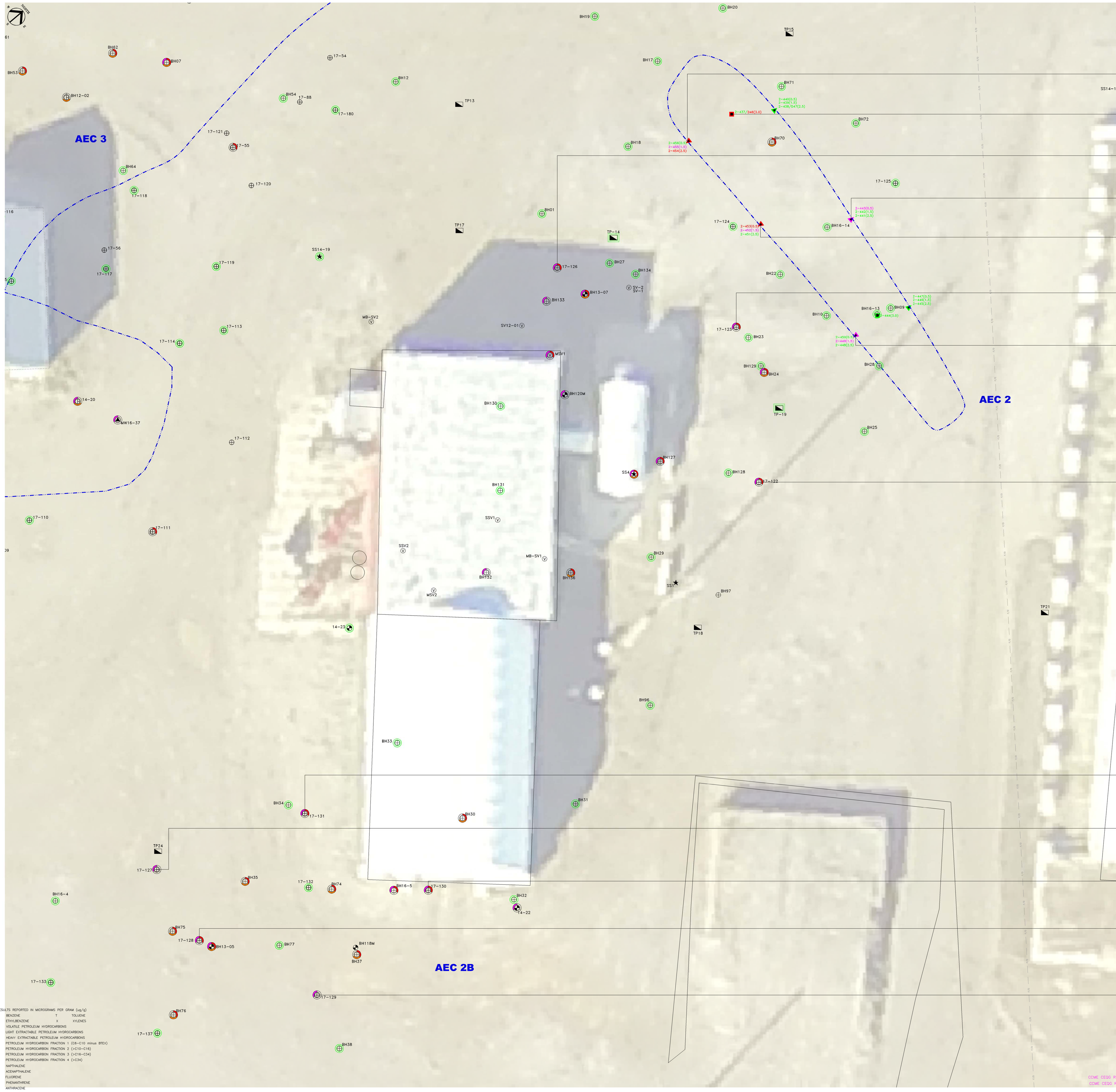
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - REMEDIAL EXCAVATION - AEC 1**

DWN BY: PES	SCALE: 1:125	DATE: 2017-10-30	DWG No: 636200-1003 REV.: 0
CHK'D: CS	PLOT: 20180323.1722	CADFILE: 636200R17	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R17.DWG



ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (ug/g)

B	BENZENE	T	TOLUENE
E	ETHYLBENZENE	X	XYLENES

- VPH VOLATILE PETROLEUM HYDROCARBONS
- LEPH LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS
- HEPH HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS
- F1 PETROLEUM HYDROCARBON FRACTION 1 (C6-C10 minus BTEX)
- F2 PETROLEUM HYDROCARBON FRACTION 2 (>C10-C16)
- F3 PETROLEUM HYDROCARBON FRACTION 3 (>C16-C34)
- F4 PETROLEUM HYDROCARBON FRACTION 4 (>C34)
- NAP NAPTHALENE
- ACE ACENAPTHALENE
- FLR FLUORENE
- PHE PHENANTHRENE
- ANT ANTHRACENE
- B(a)A BENZO (a) ANTHRACENE
- B(b,j)F BENZO (b+j) FLOURANTHENE
- B(a)P BENZO (a) PYRENE
- IACR INDEX OF ADDITIVE CANCER RISK
- DUP DUPLICATE LAB SAMPLE

EXC16-2-455	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-455	1.5	<0.0050	<0.010	0.21	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-2-454	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-454	2.5	<0.0050	<0.010	0.62	0.23	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-2-437	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-437	3.0	<0.0050	<0.010	<0.040	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10
EXC16-2-D46	DUP. OF ABOVE	<0.0050	<0.010	0.53	0.12	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

BH17-126	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-126-01	0.5 – 0.6	<0.005	<0.01	<0.05	<0.05	<10	210	1,280	<10	49	1,610	464	<0.01	<0.01	<0.04	<0.04	<1
BH17-126-02	1.4 – 1.7	<0.005	<0.01	<0.05	<0.05	<10	70	1,740	<10	28	2,140	1,140	<0.01	<0.01	<0.04	<0.04	<1
BH17-126-03	2.4 – 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	23	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-126-04	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	<20	24	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-126-05	2.9 – 3.0	<0.005	<0.01	<0.05	<0.05	<10	<20	27	<10	<20	29	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-2-443	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-443	0.5	<0.0050	<0.010	0.18	<0.040	<7.0	470	590	<10	75	780	<50	<0.0050	<0.0050	<0.0050	0.012	0.015	<0.0050	<0.0050	<0.0050	<0.10

EXC16-2-453	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-453	0.5	<0.0050	<0.010	0.037	<0.040	23	1,400	6,600	35	790	8,400	5,700	0.026	0.047	0.0085	<0.0050	0.012	<0.0050	<0.0050	<0.0050	<0.10

EXC16-2-452	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-452	1.5	<0.0050	<0.010	0.15	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

BH17-123	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-123-01	0.5 – 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-123-02	1.4 – 1.7	<0.005	0.23	<0.05	0.27	29	443	86	30	367	198	52	0.086	<0.005	<0.02	<0.02	<0.6
BH17-123-03	2.3 – 2.6	<0.005	1.60	<0.05	1.28	138	4,790	163	142	4,350	604	22	5.5	<0.5	<2	<2	<0.6
BH17-123-04	2.9 – 3.0	<0.005	0.02	<0.05	<0.05	<10	838	42	<10	715	116	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-123-05	3.4 – 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-123-06	4.4 – 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-2-449	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(bj)F	B(a)P	IACR
EXC16-2-449	1.5	<0.0050	<0.010	0.18	<0.040	<7.0	<100	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

BH17-122	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-122-01	0.5 – 0.6	<0.005	0.01	<0.05	0.46	36	1,730	5,140	37	1,140	7,690	8,020	0.18	<0.02	0.3	1.1	<3
BH17-122-02	1.4 – 1.7	0.452	0.30	2.92	1.94	<10	31	87	<10	<20	118	72	0.412	<0.005	<0.02	0.26	0.8
BH17-122-03	2.4 – 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	21	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-122-04	2.9 – 3.0	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-131	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-131-01	0.5 – 0.6	0.088	0.01	0.36	0.16	<10	28	63	<10	<20	63	29	0.005	<0.005	<0.02	<0.02	<0.6
BH17-131-02	1.4 – 1.7	<0.005	<0.01	<0.05	<0.05	<10	30	58	<10	<20	57	26	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-131-03	2.3 – 2.6	0.020	<0.01	0.09	0.06	<10	36	58	<10	<20	65	25	0.007	<0.005	<0.02	0.02	<0.6
BH17-131-04	2.9 – 3.0	<0.005	<0.01	<0.05	<0.05	<10	28	187	<10	<20	203	96	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-127	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-127-01	0.5 – 0.6	0.011	<0.01	<0.05	<0.05	<10	<20	300	<10	33	474	316	0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-02	1.4 – 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-03	2.3 – 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-04	3.4 – 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-05	4.4 – 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-06	5.3 – 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-07	6.4 – 6.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-08	7.3 – 7.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-09	7.9 – 8.1	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-130	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-130-01	0.5 – 0.6	0.009	0.05	0.06	0.67	43	12,900	700	47	11,500	2,550	120	1.9	<0.5	2	<2	<0.6
BH17-130-02	1.4 – 1.7	<0.005	<0.01	<0.05	<0.05	<10	227	167	<10	95	266	42	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-130-03	2.3 – 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-130-04	2.9 – 3.0	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-128	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-128-01	2.9 – 3.0	<0.005	<0.01	<0.05	<0.05	21	1,220	<20	23	1,300	232	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-128-02	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	16	1,830	<20	17	1,600	275	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-128-04	4.4 – 4.7	<0.005	<0.01	<0.05	<0.05	<10	401	<20	<10	331	85	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-05	5.3 – 5.6	<0.005	<0.01	<0.05	<0.05	<10	105	<20	<10	75	35	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-06	6.4 – 6.7	<0.005	<0.01	<0.05	<0.05	<10	299	<20	<10	228	67	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-07	7.3 – 7.6	<0.005	<0.01	<0.05	<0.05	<10	517	35	<10	369	207	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-08	7.9 – 8.1	<0.005	<0.01	<0.05	<0.05	<10	406	42	<10	287	188	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-129	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-129-01	0.5 – 0.6	0.014	<0.01	0.08	0.05	<10	38	60	<10	<20	61	27	0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-02	DUP. OF ABOVE	<0.005	0.04	<0.05	0.59	<10	38	62	<10	<20	68	28	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-03	1.4 – 1.7	<0.005	<0.01	<0.05	<0.05	<10	65	97	<10	<20	120	46	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-04	2.3 – 2.6	0.012	<0.01	0.07	0.05	<10	62	65	<10	20	84	32	0.010	<0.005	<0.02	<0.02	<0.6
BH17-129-05	3.4 – 3.7	<0.005	<0.01	<0.05	<0.05	<10	451	91	<10	297	255	40	<0.005	<0.005	<0.02	<0.02	1.0
BH17-129-06	4.4 – 4.7	<0.005	<0.01	<0.05	<0.05	<10	1,760	38	<10	1,680	360	<20	<0.05	<0.05	0.6	<0.2	1.0
BH17-129-07	5.3 – 5.6	<0.005	<0.01	<0.05	<0.05	<10	1,380	32	<10	1,210	258	<20	<0.05	<0.05	0.3	<0.2	0.6
BH17-129-08	6.4 – 6.7	<0.005	<0.01	<0.05	<0.05	<10	22	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-09	7.3 – 7.6	<0.005	<0.01	<0.05	<0.05	<10	38	23	<10	<20	25	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-10	7.8 – 8.1	<0.005	<0.01	<0.05	<0.05	<10	175	28	<10	94	93	<20	<0.005	<0.005	<0.02	<0.02	<0.6

DRAFT

FEDERAL GUIDELINES

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b,j)F	B(a)P	IACR
CCME CEQG RL SURFACE GUIDELINES (<1.5m) (μg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	300	2,800	0.013	0.28	0.25	0.046	2.5	1	1	0.6	1
CCME CEQG RL SUBSOIL GUIDELINES (>1.5m) (μg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	2,500	10,000	0.013	0.28	0.25	0.046	2.5	1	1	0.6	1

CCME CEQG Residential Coarse-Grained

BC STANDARDS

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b,j)F	B(a)P	IACR
CSR RLLD STANDARDS (<3m) (μg/g)	0.035	15	0.5	6.5	200	1,000	1,000	N/A	N/A	N/A	N/A	0.6	950	600	5	2.5	1	1	5	N/A
CSR IL STANDARDS (>3m) (μg/g)	0.035	15	0.5	6.5	200	2,000	5,000	N/A	N/A	N/A	N/A	20	15,000	9,500	50	30	10	10	50	N/A

CSR Residential (RL)/Industrial (IL) Land Use

LEGEND

0 1 2 3 4 5 METRES

- ■ EXCAVATION FLOOR SAMPLE LOCATION
- ▲ EXCAVATION WALL SAMPLE LOCATION
- (1.0) EXCAVATION SAMPLE DEPTH (m)
- REMEDIAL EXCAVATION BOUNDARY
- LOCATION WHERE SOIL SAMPLE MEETS APPLICABLE GUIDELINES/STANDARDS FOR ALL PARAMETERS ANALYZED, SHOWN IN GREEN
- LOCATION WHERE SOIL SAMPLE EXCEEDS CCME CEQG RL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN MAGENTA
- LOCATION WHERE SOIL SAMPLE EXCEEDS CSR RLLD AND/OR IL STANDARDS FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN RED
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- ★ SURFICIAL SOIL SAMPLE LOCATION

LOCATION

ANALYTICAL SOIL RESULTS

EXC16-8B-106	Sample Depth	B	E	T	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	B(b,j)F	B(a)P	IACR
EXC16-8B-106	0.3	0.0062	<0.010	0.029	<10	<100	3,200	<10	<10	1,800	0.017	<0.0050	0.024	0.20	1.4	1.1	19

- EXCAVATION SAMPLE ID
- EXCAVATION SAMPLE DEPTH (m)
- CONCENTRATION(S) LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL SURFACE OR SUBSOIL GUIDELINES (μg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (μg/g)
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. REFER TO THE APPENDED DRAWINGS FOR DETAILED SOIL ANALYTICAL RESULTS OF HISTORICAL BOREHOLES, WELLS, TEST PITS AND SURFICIAL SAMPLES.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018–03–26	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - REMEDIAL EXCAVATION - AEC 2 & 2B**

DWN BY: PES	SCALE: 1:100	DATE: 2017–11–08	DWG No: 636200-1004 REV.: 0
CHK'D: CS	PLOT: 20180326.1022	CADFILE: 636200R17	

EXC16-3C-401	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-401	4.5	0.011	0.058	1.2	130	1,000	1,700	210	1,330	1,200	440	<50	3.8	0.26	0.45	0.98	0.074	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3C-400	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-400	5.5	<0.0050	0.016	0.079	3.7	37	270	<100	44	180	110	<50	0.30	0.039	0.073	0.16	0.016	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3C-399	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-399	6.5	<0.010	<0.020	0.22	300	1,000	4,300	350	1,200	2,800	660	<50	5.1	0.32	0.46	0.36	0.095	<0.0050	<0.0050	<0.0050	<0.10
EXC16-3C-D42	DUP. OF ABOVE	0.012	<0.020	0.21	280	780	4,000	390	1,100	3,100	680	<50	4.7	0.29	0.40	0.25	0.088	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3C-398	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-398	7.5	0.016	<0.020	0.14	270	1,000	3,600	<100	1,500	2,800	180	<50	34	0.085	0.26	0.24	0.038	<0.0050	<0.0050	<0.0050	<0.10

BH17-40	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-40-01	26.5 - 26.8	<0.005	<0.01	<0.05	<0.05	24	3,370	427	26	2,710	1,790	29	<0.05	<0.05	<0.2	1.0	<0.6
BH17-40-02	29.0 - 29.1	<0.005	0.06	<0.05	0.54	<10	3,510	423	<10	2,650	1,670	44	<0.05	<0.05	<0.2	<0.2	<0.6

EXC16-3C-397	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-397	8.5	<0.0050	0.029	0.030	28	190	1,600	<100	280	1,200	210	<50	1.9	0.13	0.22	0.28	0.041	<0.0050	<0.0050	<0.0050	<0.10

BH17-43	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-43-01	26.1 - 26.2	<0.005	<0.01	<0.05	<0.05	–	–	–	58	4,580	2,980	<20	–	–	–	–	–
BH17-43-02	29.1 - 29.3	<0.005	0.03	<0.05	0.27	41	3,640	396	38	2,860	1,720	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-43-03	DUP. OF ABOVE	0.008	0.07	0.09	0.59	–	–	–	37	1,280	862	<20	–	–	–	–	–

BH17-44	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-44-01	27.1 - 27.3	0.013	0.01	0.06	<0.05	–	–	–	<10	579	564	<20	–	–	–	–	–
BH17-44-02	28.7 - 28.8	<0.005	<0.01	<0.05	<0.05	122	3,600	431	114	2,770	1,800	<20	<0.05	<0.05	0.3	1.7	<0.6
BH17-44-03	29.9 - 30.2	<0.005	<0.01	<0.05	<0.05	–	–	–	<10	1,330	744	<20	–	–	–	–	–
BH17-44-04	31.1 - 31.2	<0.005	<0.01	<0.05	<0.05	–	–	–	<10	684	418	<20	–	–	–	–	–

BH17-45	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-45-01	31.1 - 31.4	<0.005	0.03	<0.05	0.32	–	–	–	<10	268	252	<20	–	–	–	–	–
BH17-45-02	32.0 - 32.3	<0.005	0.01	<0.05	<0.05	19	924	132	15	734	373	70	<0.05	<0.05	<0.2	0.5	<0.6
BH17-45-03	34.7 - 35.1	<0.005	<0.01	<0.05	<0.05	417	567	29	398	534	54	<20	<0.005	<0.005	0.48	0.64	<0.6
BH17-45-04	36.3 - 36.6	<0.005	<0.01	<0.05	<0.05	–	–	–	<10	21	25	<20	–	–	–	–	–
BH17-45-05	36.6 - 36.9	<0.02	0.09	0.07	0.8	–	–	–	–	–	–	–	–	–	–	–	–

EXC16-3C-386	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-386	5.5	<0.0050	<0.010	<0.020	<0.040	<7.0	1,300	500	<10	760	980	97	<0.0050	0.010	0.0091	<0.0050	0.023	<0.0050	<0.0050	<0.0050	<0.10
EXC16-3C-D41	DUP. OF ABOVE	<0.0050	<0.010	<0.020	<0.040	<7.0	1,100	400	<10	620	750	65	<0.0050	0.0082	0.0058	<0.0050	0.017	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3C-385	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-385	6.5	<0.0050	<0.010	<0.020	<0.040	<7.0	510	170	<10	260	320	<50	<0.0050	<0.0050	<0.0050	<0.0050	0.0071	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3C-389	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3C-389	7.5	<0.0050	<0.010	0.25	0.15	<7.0	240	<100	<10	<10	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

BH17-70	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-70-01	0.3 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-03	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-04	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-05	3.2 - 3.8	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-06	4.3 - 4.9	<0.005	<0.01	<0.05	<0.05	<10	83	32	<10	60	69	<20	<0.005	<0.005	<0.02	0.05	<0.6
BH17-70-07	5.3 - 6.1	<0.005	<0.01	<0.05	0.53	<10	179	52	<10	116	127	<20	<0.005	<0.005	<0.02	0.03	<0.6
BH17-70-08	6.4 - 6.7	<0.005	<0.01	<0.05	0.06	<10	633	82	<10	488	270	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-09	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	938	240	<10	611	565	44	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-70-10	7.9 - 8.2	<0.005	<0.01	<0.05	<0.05	<10	249	113	<10	114	225	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-79	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-79-01	0.5 - 0.6	0.012	<0.01	0.07	0.07	<10	60	870	<10	<20	1,030	518	0.053	<0.005	<0.02	0.05	<0.6
BH17-79-02	0.9 - 1.2	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-3B-131	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-131	0.3	<0.0050	<0.010	0.024	<0.040	<10	<100	450	<10	14	530	290	0.011	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-3B-130	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-130	0.3	0.0099	<0.010	0.080	<0.040	<10	<100	180	<10	12	230	110	0.017	<0.0050	<0.020	0.014	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-3B-163	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-163	0.3	0.0095	<0.010	0.071	<0.040	<10	<100	450	<10	15	450	240	0.014	<0.0050	<0.020	0.011	<0.0040	<0.020	<0.020	<0.020	0.31

BH17-69	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-69-01	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	17	24	<20	18	20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-02	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	428	98	<10	294	263	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-03	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	252	156	<10	116	332	26	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-04	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	194	132	<10	95	282	21	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-05	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-06	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-07	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-69-08	7.9 - 8.2	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-3B-132	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-132	0.3	<0.0050	<0.010	<0.020	<0.040	<10	<100	160	<10	16	200	61	0.016	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-3B-133	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-133	0.3	0.0052	<0.010	0.024	<0.040	<10	150	550	<10	50	680	450	<0.010	<0.0050	<0.020	<0.010	<0.0040	<0.020	<0.020	<0.020	0.31

BH17-149	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-149-01	0.9 - 1.1	0.013	<0.01	0.08	<0.05	<10	20	275	<10	<20	326	204	0.025	<0.005	<0.02	0.02	<0.6

EXC16-3B-134	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-134	0.3	<0.0050	0.010	<0.020	0.17	<10	150	<100	<10	96	150	27	0.064	0.011	0.037	0.067	<0.0040	<0.020	<0.020	<0.020	0.31

EXC16-3B-332	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-332	0.5	<0.0050	<0.010	<0.020	<0.040	7.3	6,500	3,900	<10	2,700	6,400	200	1.7	0.69	1.6	5.4	1.1	<0.050	<0.050	<0.050	0.59

BH17-154	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-154-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	43	<10	<20	57	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-154-02	0.9 - 1.1	<0.005	0.01	<0.05	0.08	<10	1,940	829	<10	738	1,510	68	0.06	<0.05	0.2	1.4	<0.6
BH17-154-03	1.4 - 1.7	<0.005	0.02	<0.05	0.13	10	3,200	865	12	2,820	1,810	368	1.24	<0.05	1.0	2.2	<0.6
BH17-154-04	2.3 - 2.6	<0.005	0.06	<0.05	0.17	<10	34	<20	10	<20	46	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-154-05	2.9 - 3.0	<0.005	0.02	<0.05	0.08	<10	20	<20	<10	<20	31	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-3B-330	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-330	0.5	0.36	6.2	8.2	99	2,100	38,000	8,900	2,300	23,000	17,000	1,200	26	5.8	9.3	20	2.8	0.067	0.060	<0.050	0.96
EXC16-3B-D32	0.5	0.42	6.5	7.0	100	1,800	32,000	7,600	2,000	20,000	15,000	1,100	23	5.1	8.2	17	2.4	0.062	0.057	<0.050	0.92

EXC16-3B-329	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-329	1.5	<0.0050	<0.010	<0.020	<0.040	<7.0	240	130	<10	130	180	<50	0.018	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3B-319	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-319	1.8	<0.0050	<0.010	0.026	0.11	<7.0	260	<100	<10	150	110	<50	0.090	0.023	0.037	0.063	0.0076	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3B-321	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-321	2.0	<0.0050	<0.010	0.052	15	100	1,000	130	150	680	280	<50	2.5	0.045	0.087	0.089	0.012	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3B-320	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3B-320	1.8	0.0086	0.15	0.28	8.4	110	3,100	1,000	120	1,900	1,500	330	2.2	0.45	0.75	1.4	0.15	<0.0050	<0.0050	<0.0050	<0.10

BH17-169	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-169-01	0.3 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	30	80	<10	< 40	141	< 40	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-169-02	1.4 - 1.7	0.005	0.96	<0.05	0.32	161	182	1,440	166	163	1,930	195	0.067	<0.005	<0.02	<0.02	<0.6

EXC16-3A-367	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-367	1.5	<0.0050	<0.010	0.038	0.34	360	550	<100	390	440	110	<50	0.50	0.022	0.049	0.025	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-368	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-368	0.5	<0.0050	<0.010	0.041	0.78	810	1,600	220	890	1,200	360	76	1.6	0.058	0.15	0.080	0.0062	<0.0050	<0.0050	<0.0050	<0.10
EXC16-3A-D39	DUP. OF ABOVE	<0.0050	<0.010	<0.020	0.38	120	4,600	250	140	3,700	520	83	7.9	0.27	0.64	0.34	0.017	<0.0050	<0.0050	<0.0050	<0.10

BH17-148	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-148-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	27	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-148-02	1.4 - 1.7	<0.005	13.8	0.75	50.5	1,600	2,740	4,940	1,610	1,720	4,670	975	11.1	<0.05	<0.2	<0.2	<0.6
BH17-148-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-127	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-127-01	0.5 - 0.6	0.011	<0.01	<0.05	<0.05	<10	<20	300	<10	33	474	316	0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-05	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-06	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-07	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-08	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-127-09	7.9 - 8.1	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-131	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-131-01	0.5 - 0.6	0.088	0.01	0.36	0.15	<10	28	63	<10	<20	63	29	0.005	<0.005	<0.02	<0.02	<0.6
BH17-131-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	30	58	<10	<20	57	26	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-131-03	2.3 - 2.6	0.020	<0.01	0.09	0.06	<10	36	58	<10	<20	65	25	0.007	<0.005	<0.02	0.02	<0.6
BH17-131-04	2.9 - 3.0	<0.005	<0.01	<0.05	<0.05	<10	28	187	<10	<20	203	96	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-130	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-130-01	0.5 - 0.6	0.009	0.05	0.06	0.67	43	12,900	700	47	11,500	2,550	120	1.9	<0.5	2	<2	<0.6
BH17-130-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	227	167	<10	95	268	42	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-130-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-130-04	2.9 - 3.0	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-128	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-128-01	2.9 - 3.0	<0.005	<0.01	<0.05	<0.05	21	1,220	<20	23	1,300	232	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-128-02	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	16	1,830	<20	17	1,600	275	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-128-04	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	451	<20	<10	331	85	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-05	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	105	<20	<10	75	35	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-06	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	299	<20	<10	228	67	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-07	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	517	35	<10	369	207	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-128-08	7.9 - 8.1	<0.005	<0.01	<0.05	<0.05	<10	406	42	<10	287	188	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-129	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-129-01	0.5 - 0.6	<0.005	<0.01	0.08	<0.05	<10	38	60	<10	<20	61	27	0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-02	DUP. OF ABOVE	<0.005	0.04	<0.05	0.59	<10	38	62	<10	<20	68	28	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-03	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	65	97	<10	<20	120	46	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-04	2.3 - 2.6	0.012	<0.01	0.07	0.05	<10	62	65	<10	20	84	32	0.010	<0.005	<0.02	<0.02	<0.6
BH17-129-05	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	451	91	<10	297	256	40	<0.005	<0.005	<0.02	<0.02	1.0
BH17-129-06	4.4 - 4.7	<0.005	<0.01	<0.05	<0.05	<10	1,760	38	<10	1,680	360	<20	<0.05	<0.05	0.6	<0.2	1.0
BH17-129-07	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	1,380	32	<10	1,210	258	<20	<0.05	<0.05	0.3	<0.2	0.6
BH17-129-08	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	22	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-09	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	38	23	<10	<20	25	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-129-10	7.8 - 8.1	<0.005	<0.01	<0.05	<0.05	<10	175	28	<10	94	93	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-71	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-71-01	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-71-02	3.4 - 3.7	<0.005	<0.01	<0.05	0.07	<10	<20	<20	<10	<20	<20	<20	0.005	<0.005	<0.02	<0.02	<0.6
BH17-71-03	4.4 - 4.7	<0.005	<0.01	<0.05	0.08	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-71-04	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	43	<20	<10	<20	39	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-71-05	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	17	2,980	795	17	1,950	2,030	117	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-71-06	7.3 - 7.6	<0.005	<0.01	<0.05	2.75	34	4,650	734	22	3,700	2,050	61	<0.05	<0.05	0.76	1.51	<0.6
BH17-71-07	7.9 - 8.2	0.005	<0.01	<0.05	<0.05	18	1,970	337	16	1,550	944	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-71-08	9.6 - 9.9	–	–	–	–	–	–	–	–	821	313	<20	–	–	–	–	–
BH17-71-09	10.5 - 10.8	–	–	–	–	–	–	–	–	1,220	413	<20	–	–	–	–	–
BH17-71-10	11.4 - 11.7	–	–	–	–	–	–	–	–	1,220	437	<20	–	–	–	–	–

EXC16-3A-085	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-085	1.5	<0.0050	<0.010	<0.020	<0.040	<7.0	3,000	360	<10	2,000	760	180	0.045	0.055	0.054	<0.010	<0.010	<0.010	<0.010	<0.010	0.14

EXC16-3A-316	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-316	8.0	<0.0050	<0.010	<0.020	<0.040	<7.0	260	<100	<10	220	<50	<50	0.0089	<0.0050	<0.0050	0.011	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-088	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	F4G	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-088	1.5	0.024	0.11	0.44	1.4	29	1,800	4,100	38	960	5,200	3,900	17,000	0.37	0.17	0.36	0.83	0.042	0.087	0.16	0.13	2.0

EXC16-3A-328	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-328	8.0	<0.0050	<0.010	<0.020	<0.040	16	1,000	<100	<10	730	130	<50	0.58	0.029	<0.0050	0.13	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-324	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-324	7.5	<0.0050	<0.010	<0.020	<0.040	<7.0	680	<100	<10	480	110	<50	0.010	0.0073	<0.0050	0.10	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

BH17-78	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-78-01	0.5 - 0.8	<0.005	<0.01	<0.05	<0.05	<10	31	229	<10	<20	350	321	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-78-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-78-03	1.8 - 2.1	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-134	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-134-01	7.9 - 8.1	<0.005	<0.01	<0.05	<0.05	18	5,550	182	19	5,380	842	25	<0.5	<0.5	<2	<2	<0.6

EXC16-3A-342	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-342	2.5	<0.0050	<0.010	<0.020	<0.040	23	220	<100	14	160	71	<50	0.017	<0.0050	<0.0050	0.0091	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-343	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-343	1.5	<0.0050	<0.010	<0.020	<0.040	<7.0	300	390	<10	170	320	230	0.027	0.014	0.023	0.034	0.012	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-311	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-311	4.5	<0.0050	<0.010	<0.040	<0.040	70	340	<100	77	270	51	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-310	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-310	5.5	<0.0050	<0.010	<0.040	<0.040	38	340	<100	26	240	110	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	0.020	<0.0050	0.17

EXC16-3A-308	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-308	7.5	<0.0050	<0.010	<0.040	<0.040	<7.0	870	<100	<10	590	170	<50	<0.0050	0.0077	<0.0050	<0.0050	<0.0040	<0.0050	0.0055	<0.0050	<0.10

EXC16-3A-345	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-345	3.5	<0.0050	<0.010	<0.020	<0.040	30	2,300	170	40	1,700	440	<50	0.016	0.012	0.0084	0.021	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-346	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-346	2.5	<0.0050	<0.010	0.041	<0.040	14	250	<100	12	190	<50	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-347	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-347	1.5	<0.0050	<0.010	<0.020	<0.040	<7.0	410	110	<10	310	170	<50	<0.0050	<0.0050	<0.0050	0.0093	<0.0040	0.0071	0.016	0.0091	0.21

BH17-139	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-139-01	0.3 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	530	489	<10	460	783	248	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-02	1.4 - 1.7	<0.005	<0.01	0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-05	4.3 - 4.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-06	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-07	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-08	7.3 - 7.6	<0.005	0.01	<0.05	0.08	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-09	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-139-10	7.9 - 8.1	<0.005	<0.01	<0.05	0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH17-51	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-51-01	0.4 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	818	477	<10	250	493	37	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-51-02	1.4 - 1.6	<0.005	<0.01	<0.05	<0.05	<10	229	132	<10	100	176	54	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-51-06	4.4 - 4.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-51-09	7.5 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	0.017	<0.005	<0.02	<0.02	<0.6

BH17-140	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-140-01	0.3 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	126	510	<10	21	606	272	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-02	1.4 - 1.7	<0.005	<0.01	<0.05	<0.05	<10	437	59	<10	244	186	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-03	2.3 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	99	<20	<10	34	67	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-04	3.4 - 3.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-05	4.3 - 4.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-06	5.3 - 5.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-07	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-08	6.4 - 6.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-09	7.3 - 7.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-140-10	7.8 - 7.9	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-3A-348	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-348	0.5	<0.0050	<0.010	<0.020	<0.040	61	2,000	260	73	1,500	500	83	0.25	0.059	0.11	0.070	0.0061	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-297	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-297	5.5	<0.0050	<0.010	<0.020	0.41	19	730	650	22	420	810	220	0.13	0.014	0.045	0.061	0.0055	<0.0050	0.0095	0.0074	0.12

EXC16-3A-296	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-296	6.5	<0.0050	<0.010	<0.020	0.37	17	340	440	21	160	520	140	0.18	0.0079	0.0077	0.024	<0.0040	<0.0050	0.0070	0.0053	0.10

BH17-141	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-141-01	0.5 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	52	442	<10	22	693	704	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-141-02	0.9 - 1.1	<0.005	<0.01	<0.05	<0.05	<10	36	445	<10	<20	790	892	<0.005	<0.005	<0.02	<0.02	<0.6

EXC16-3A-356	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-356	0.5	<0.0050	<0.010	<0.020	<0.040	<7.0	660	1,700	<10	180	1,900	600	0.028	0.027	0.060	0.20	0.048	0.033	0.081	0.075	1.0

EXC16-3A-313	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-313	8.0	<0.0050	<0.010	<0.020	<0.040	<7.0	520	<100	<10	350	140	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-293	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-293	5.5	<0.0050	<0.010	<0.020	<0.040	9.9	350	410	<10	180	520	150	0.0075	<0.0050	0.0074	0.023	0.0075	0.0060	0.016	0.017	0.20

EXC16-3A-290	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-290	4.5	<0.0050	<0.010	<0.020	<0.040	<7.0	1,200	150	<10	1,000	250	<50	0.072	0.018	0.022	0.057	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-289	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-289	5.5	<0.0050	<0.010	<0.020	<0.040	<7.0	850	<100	<10	690	130	<50	0.049	0.0083	0.013	0.023	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-288	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-288	6.5	<0.0050	<0.010	<0.020	<0.040	30	3,400	120	26	2,700	220	<50	0.25	0.055	0.020	0.094	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-287	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-287	7.5	<0.0050	<0.010	<0.020	<0.040	7.2	890	120	<10	620	150	<50	0.068	0.0075	0.015	0.039	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-357	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-357	3.5	<0.0050	<0.010	<0.020	<0.040	65	1,900	<100	90	1,700	160	<50	0.22	0.011	0.015	0.056	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-358	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-358	2.5	<0.0050	<0.010	0.044	<0.040	<7.0	540	<100	<10	390	74	<50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-312	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-312	8.0	<0.0050	<0.010	<0.020	<0.040	7.1	1,000	<100	<10	800	210	<50	0.0089	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10
EXC16-3A-D31	DUP. OF ABOVE	<0.0050	<0.010	<0.020	<0.040	<7.0	990	<100	<10	780	210	<50	0.012	<0.0050	<0.0050	<0.0050	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

EXC16-3A-364	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b)F	B(a)P	IACR
EXC16-3A-364	0.5	<0.0050	0.17	<0.020	0.44	31	140	750	38	88	770	540	0.37	<0.0050	0.0094	0.021	<0.0040	<0.0050	<0.0050	<0.0050	<0.10
EXC16-3A-D38	DUP. OF ABOVE	<0.0050	0.14	<0.020	0.41	90	120	540	130	75	550	390	0.26	<0.0050	0.0092	0.018	<0.0040	<0.0050	<0.0050	<0.0050	<0.10

DRAFT

FEDERAL GUIDELINES

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b,j)F	B(a)P	IACR
CCME CEQG RL SURFACE GUIDELINES (<1.5m) (μg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	300	2,800	0.013	0.28	0.25	0.046	2.5	1	1	0.6	1
CCME CEQG RL SUBSOIL GUIDELINES (>1.5m) (μg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	2,500	10,000	0.013	0.28	0.25	0.046	2.5	1	1	0.6	1

CCME CEQG Residential Coarse-Grained

BC STANDARDS

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	ANT	B(a)A	B(b,j)F	B(a)P	IACR
CSR RLLD STANDARDS (<3m) (μg/g)	0.035	15	0.5	6.5	200	1,000	1,000	N/A	N/A	N/A	N/A	0.6	950	600	5	2.5	1	1	5	N/A
CSR IL STANDARDS (>3m) (μg/g)	0.035	15	0.5	6.5	200	2,000	5,000	N/A	N/A	N/A	N/A	20	15,000	9,500	50	30	10	10	50	N/A

CSR Residential (RL)/Industrial (IL) Land Use

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (ug/g)

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
VPH	VOLATILE PETROLEUM HYDROCARBONS
LEPH	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS
HEPH	HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS
F1	PETROLEUM HYDROCARBON FRACTION 1 (C6-C10 minus BTEX)
F2	PETROLEUM HYDROCARBON FRACTION 2 (>C10-C16)
F3	PETROLEUM HYDROCARBON FRACTION 3 (>C16-C34)
F4	PETROLEUM HYDROCARBON FRACTION 4 (>C34)
NAP	NAPTHALENE
ACE	ACENAPTHALENE
FLR	FLUORENE
PHE	PHENANTHRENE
ANT	ANTHRACENE
B(a)A	BENZO (a) ANTHRACENE
B(b,j)F	BENZO (b+j) FLOURANTHENE
B(a)P	BENZO (a) PYRENE
IACR	INDEX OF ADDITIVE CANCER RISK
DUP	DUPLICATE LAB SAMPLE

LEGEND

0 2 4 6 8 10 METRES

- EXCAVATION FLOOR SAMPLE LOCATION
- EXCAVATION WALL SAMPLE LOCATION
- (1.0) EXCAVATION SAMPLE DEPTH (m)
- REMEDIAL EXCAVATION BOUNDARY
- LOCATION WHERE SOIL SAMPLE MEETS APPLICABLE GUIDELINES/STANDARDS FOR ALL PARAMETERS ANALYZED, SHOWN IN GREEN
- LOCATION WHERE SOIL SAMPLE EXCEEDS CCME CEQG RL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN MAGENTA
- LOCATION WHERE SOIL SAMPLE EXCEEDS CSR RLLD AND/OR IL STANDARDS FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN RED
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- SURFICIAL SOIL SAMPLE LOCATION

LOCATION — ANALYTICAL SOIL RESULTS

EXC16-8B-106	Sample Depth	B	E	T	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	B(b,j)F	B(a)P	IACR
EXC16-8B-106	0.3	0.0062	<0.010	0.029	<10	<100	3,200	<10	<10	1,800	0.017	<0.0050	0.024	0.20	1.4	1.1	19

- EXCAVATION SAMPLE ID
- EXCAVATION SAMPLE DEPTH (m)
- CONCENTRATION(S) LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL SURFACE OR SUBSOIL GUIDELINES (μg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (μg/g)
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. REFER TO THE APPENDED DRAWINGS FOR DETAILED SOIL ANALYTICAL RESULTS OF HISTORICAL BOREHOLES, WELLS, TEST PITS AND SURFICIAL SAMPLES.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-03-26	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC • LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - REMEDIAL EXCAVATION - AEC 3**

DWN BY: PES | SCALE: 1:150 | DATE: 2017-11-08 | DWG No: 636200-1005 | REV.: 0

CHK'D: CS | PLOT: 20180323.1750 | CADFILE: 636200R17

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R17.DWG

LEGEND

- EXCAVATION FLOOR SAMPLE LOCATION
- EXCAVATION WALL SAMPLE LOCATION
- (1.0) EXCAVATION SAMPLE DEPTH (m)
- REMEDIAL EXCAVATION BOUNDARY
- LOCATION WHERE SOIL SAMPLE MEETS APPLICABLE GUIDELINES/STANDARDS FOR ALL PARAMETERS ANALYZED, SHOWN IN GREEN
- LOCATION WHERE SOIL SAMPLE EXCEEDS CCME CEQG RL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN MAGENTA
- LOCATION WHERE SOIL SAMPLE EXCEEDS CSR RLLD AND/OR IL STANDARDS FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN RED
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXCEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- SURFICIAL SOIL SAMPLE LOCATION

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF FACILITIES AND UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INVESTIGATIVE WORK. NOT ALL FACILITIES OR UTILITIES MAY BE SHOWN.
3. REFER TO THE APPENDED DRAWINGS FOR DETAILED SOIL ANALYTICAL RESULTS OF HISTORICAL BOREHOLES, WELLS, TEST PITS AND SURFICIAL SAMPLES.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-03-26	ISSUED TO CLIENT AS DRAFT	PES	CS

1 2 4 6 8 10 METRES

SNC·LAVALIN

CLIENT NAME:
PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION:
FIRESIDE MAINTENANCE CAMP
ALASKA HIGHWAY, BC

DETAILED SOIL ANALYTICAL RESULTS - REMEDIAL EXCAVATION - AEC 5

DWN BY: PES	SCALE: 1:100	DATE: 2017-11-08	SERIES No: REV.: 0
CHK'D: CS	PLOT: 20180323.1813	CADFILE: 636200R17	636200-1006

LOCATION

ANALYTICAL SOIL RESULTS

EXC16-8B-106	Sample Depth	B	E	T	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	B(b,j)F	B(a)P	IACR
EXC16-8B-106	0.3	0.0062	<0.010	0.029	<10	<100	3,200	<10	<10	1,800	0.017	<0.0050	0.024	0.20	1.4	1.1	19

EXCAVATION SAMPLE ID

EXCAVATION SAMPLE DEPTH (m)

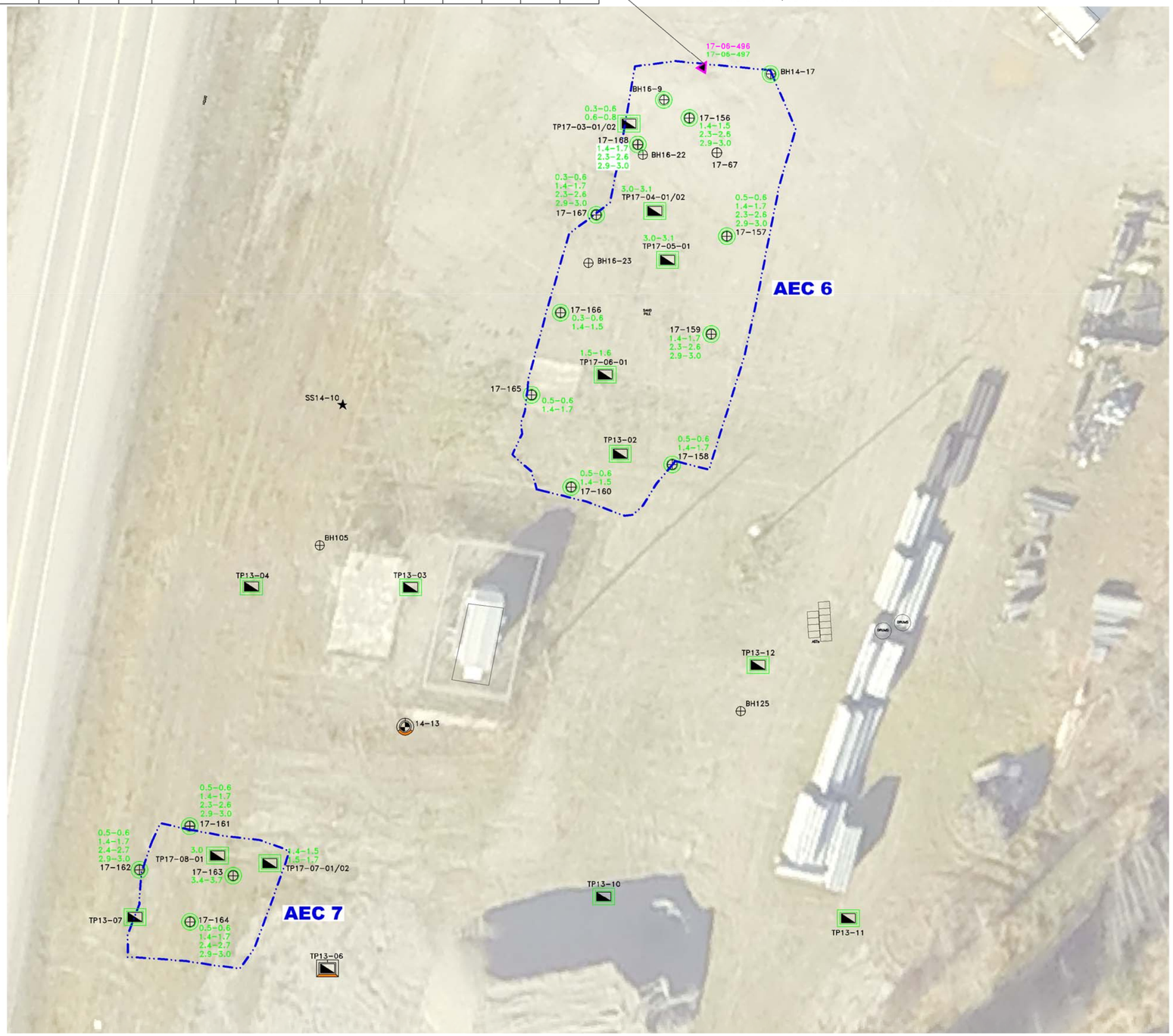
CONCENTRATION(S) LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES

CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL SURFACE OR SUBSOIL GUIDELINES (µg/g)

CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (µg/g)

VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE

EXC17-06-497	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
EXC17-06-496	0.5 – 0.6	<0.005	<0.01	<0.05	<0.05	<10	224	461	<10	59	759	207	<0.005	<0.005	<0.02	0.07	<0.6
EXC17-06-497	0.6 – 0.8	<0.005	<0.01	<0.05	<0.05	<10	<20	20	<10	20	23	<20	<0.005	<0.005	<0.02	<0.02	<0.06



DRAFT

FEDERAL GUIDELINES

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
CCME CEQG RL SURFACE GUIDELINES (<1.5m) (µg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	300	2,800	0.013	0.28	0.25	0.046	1
CCME CEQG RL SUBSOIL GUIDELINES (>1.5m) (µg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	2,500	10,000	0.013	0.28	0.25	0.046	1

CCME CEQG Residential Coarse-Grained

BC STANDARDS

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
CSR RLLD STANDARDS (<3m) (µg/g)	0.035	15	0.5	6.5	200	1,000	1,000	N/A	N/A	N/A	N/A	0.6	950	600	5	N/A
CSR IL STANDARDS (>3m) (µg/g)	0.035	15	0.5	6.5	200	2,000	5,000	N/A	N/A	N/A	N/A	20	15,000	9,500	50	N/A

CSR Residential (RL)/Industrial (IL) Land Use

LEGEND

- REMEDIAL EXCAVATION BOUNDARY
- LOCATION WHERE SOIL SAMPLE MEETS APPLICABLE GUIDELINES/STANDARDS FOR ALL PARAMETERS ANALYZED, SHOWN IN GREEN
- LOCATION WHERE SOIL SAMPLE EXCEEDS CCME CEQG RL GUIDELINES FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN MAGENTA
- LOCATION WHERE SOIL SAMPLE EXCEEDS CSR RLLD AND/OR IL STANDARDS FOR AT LEAST ONE PARAMETER ANALYZED, SHOWN IN RED
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- SURFICIAL SOIL SAMPLE LOCATION

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (ug/g)

B	BENZENE	T	TOLUENE
E	ETHYLBENZENE	X	XYLENES
VPH	VOLATILE PETROLEUM HYDROCARBONS		
LEPH	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS		
HEPH	HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS		
F1	PETROLEUM HYDROCARBON FRACTION 1 (C6-C10 minus BTEX)		
F2	PETROLEUM HYDROCARBON FRACTION 2 (>C10-C16)		
F3	PETROLEUM HYDROCARBON FRACTION 3 (>C16-C34)		
F4	PETROLEUM HYDROCARBON FRACTION 4 (>C34)		
NAP	NAPTHALENE		
ACE	ACENAPTHALENE		
FLR	FLUORENE		
PHE	PHENANTHRENE		
IACR	INDEX OF ADDITIVE CANCER RISK		

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF FACILITIES AND UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INVESTIGATIVE WORK. NOT ALL FACILITIES OR UTILITIES MAY BE SHOWN.
3. REFER TO THE APPENDED DRAWINGS FOR DETAILED SOIL ANALYTICAL RESULTS OF HISTORICAL BOREHOLES, WELLS, TEST PITS AND SURFICIAL SAMPLES.

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-03-29	ISSUED TO CLIENT AS DRAFT	PES	CS

0 5 20 Metres

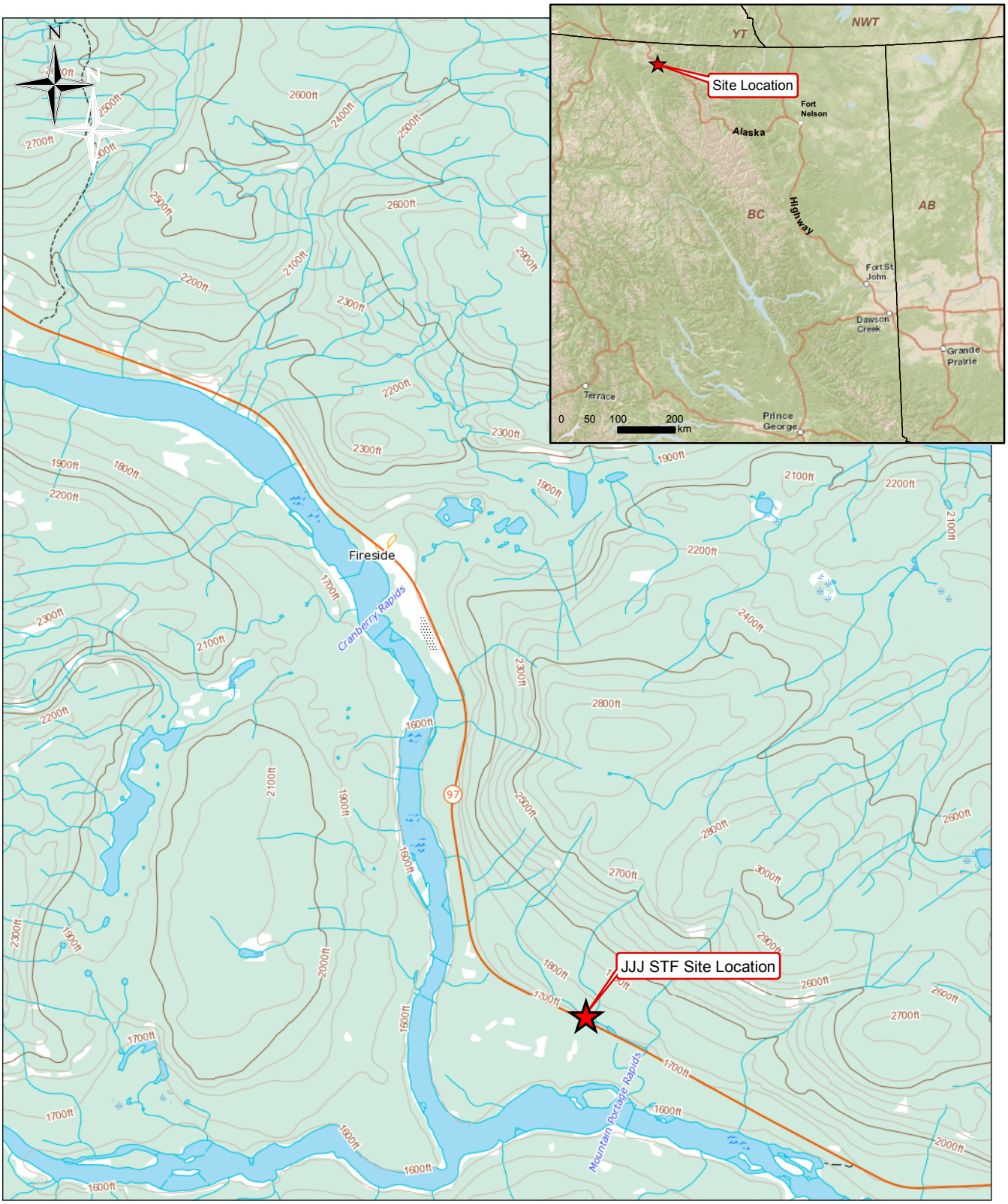
SNC·LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

DETAILED SOIL ANALYTICAL RESULTS - REMEDIAL EXCAVATION - AEC 6 & 7

DWN BY: PES	SCALE: 1:400	DATE: 2017-11-08	SERIES No: REV.: 0
CHK'D: CS	PLOT: 20180319.1503	CADFILE: 636200R17	636200-1007



LEGEND

★ Site Location

NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

SNC · LAVALIN

CLIENT NAME:	PROJECT LOCATION:
Public Works and Government Services Canada	JJJ STF Alaska Highway, BC

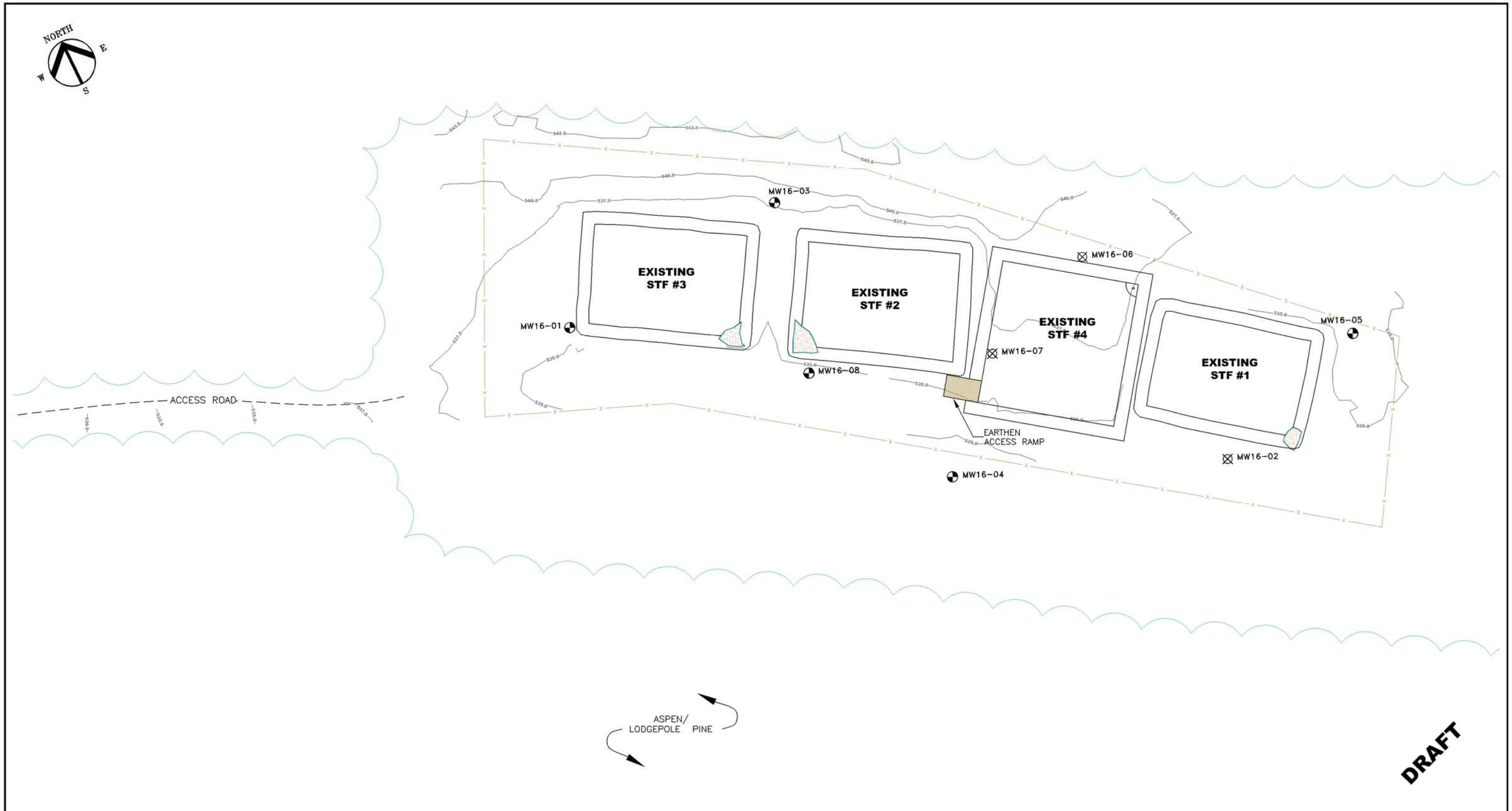
JJJ STF Site Location

0 0.5 1 2 3 4 Kilometers

BY PB	DATE: 2017-03-03	REF No: 636200-1008	REV: 0
CHK'D: CS	SCALE: 1:50,000		

MXD Path: P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside\4.0 Execution\4.5 GIS and Drawings (Secure)\GIS\MapSeries\623385-001.mxd

Project Path: "P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside"



LEGEND

- TREE LINE (APPROX.)
- MONITORING WELL LOCATION
- MONITORING WELL TO BE DECOMMISSIONED
- DECOMMISSIONED MONITORING WELL
- FENCE
- SOIL BERM
- SOIL PILE
- LEACHATE COLLECTION SYSTEM
- TOPOGRAPHICAL LINE AND ELEVATION (masl)

0 25 50 75 METRES

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
IMAGERY	1969	GOOGLE EARTH

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018-03-26	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

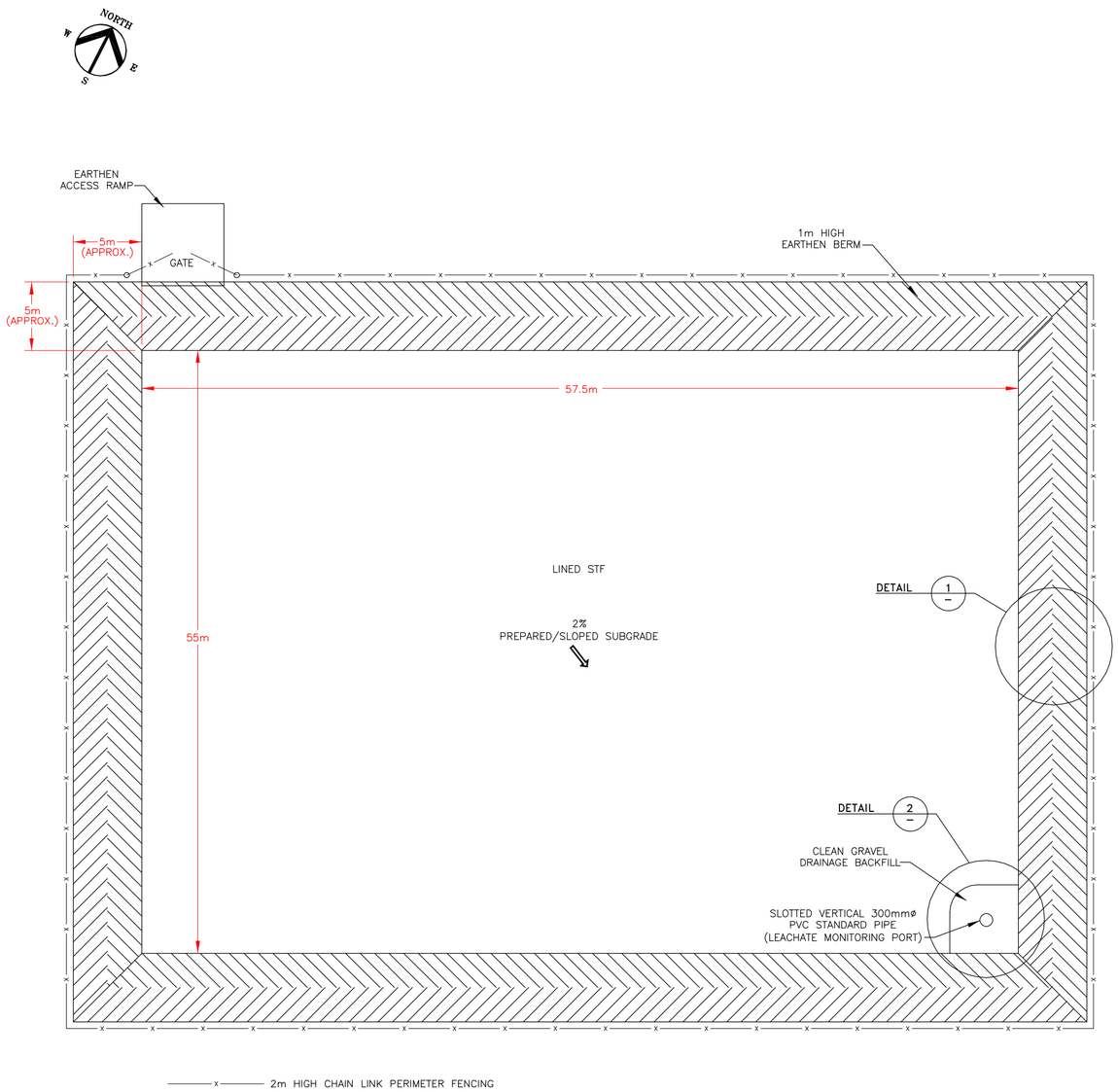
CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: JJJ GRAVEL PIT KM 839 ALASKA HIGHWAY, FIRESIDE, B.C.

TITLE: **SITE PLAN - JJJ GRAVEL PIT**

DWN BY: PES	SCALE: 1:1,500	DATE: 2018-03-16	DWG No: 636200-1009 REV.: 0
CHK'D: CS	PLOT: 20180323.1819	CADFILE: 636200R17	

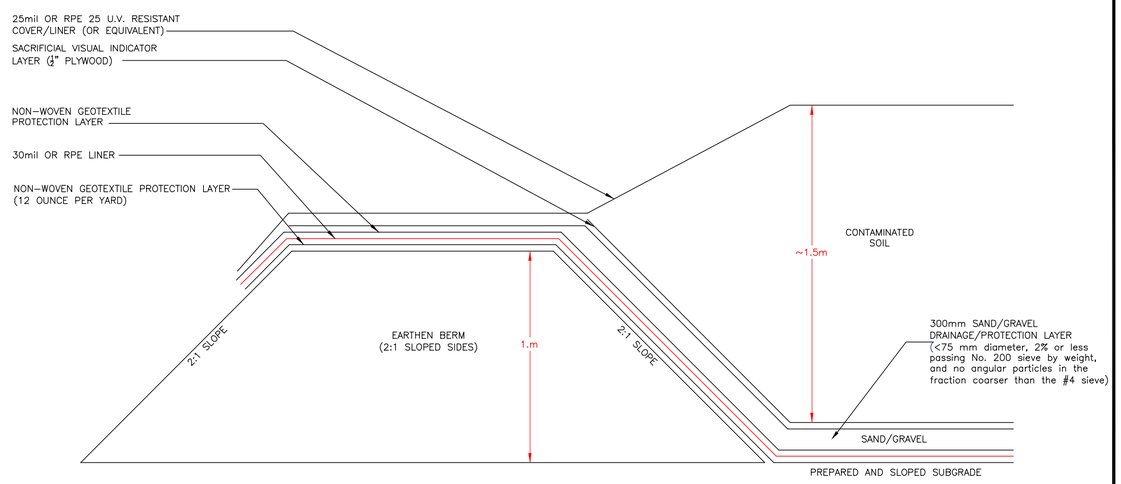
PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R17.DWG



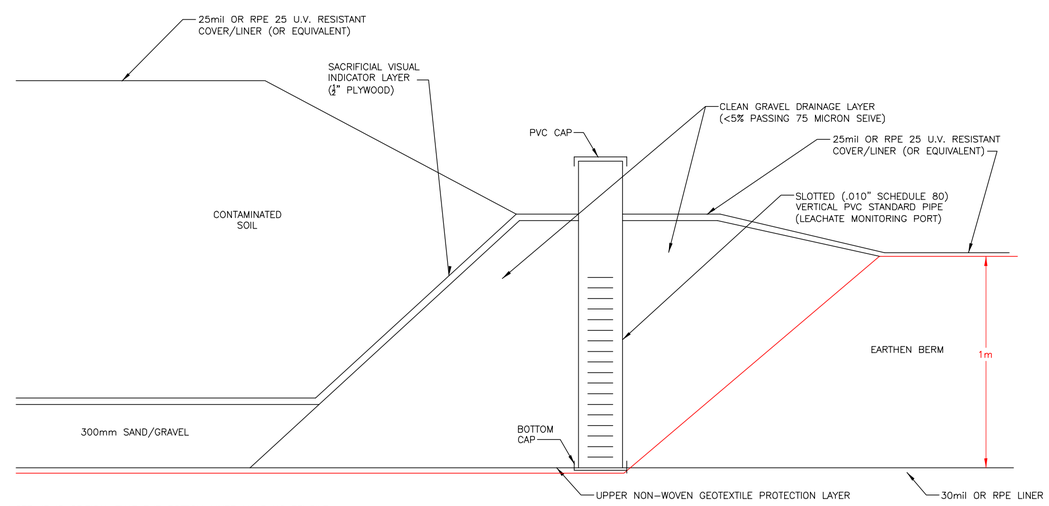
NOTES:

1) PREPARED SUBGRADE TO BE FREE OF PROTRUSIONS (ANGULAR COARSE FRAGMENTS, DEBRIS, ETC.) PRIOR TO CONTRUCTION OF STF.

2) DESIGN SPECIFICATIONS APPLY TO ALL THREE PROPOSED STFS. ORIENTATION OF STFS TO REFLECT SITING CONSIDERATIONS. LEACHATE COLLECTION SYSTEM LOCATION TO BE CONSTRUCTED IN MOST SUITABLE CORNER IN CONSIDERATION OF SITE PREPARATION AND TOPOGRAPHY. SECOND NOTE: EARTHEN ACCESS RAMP AND GATE LOCATIONS TO BE CONSTRUCTED TO PROVIDE EASE OF ACCESS AND TO MINIMIZE INTERFERENCE WITH EXISTING ROADWAYS AND IF NECESSARY, RE–LOCATED ROADWAYS.



DETAIL 1 –
N.T.S.



NOTE: IT IS CRITICAL THAT THE BOTTOM LINER HAVE NO TENSILE FORCE IN CORNER OF LEACHATE MONITORING SUMP FOLLOWING INSTALLATION.

DETAIL 2 –
N.T.S.

DRAFT

LEGEND

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. SCALE IS APPROXIMATE.

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
0	2018–03–26	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT LOCATION: JJJ GRAVEL PIT km839 ALASKA HIGHWAY, FIRESIDE, B.C.

TITLE: **SOIL TREATMENT FACILITY #4 DESIGN SPECIFICATIONS**

DWN BY: PES	SCALE: AS SHOWN	DATE: 2018–03–16	DWG No: REV.: 0
CHK'D: CS	PLOT: 20180323.1820	CADFILE: 636200R17	636200-1010

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R17.DWG

Appendix I

Site Photographs

Photograph 1: View of BH17-115 (AEC 1) looking NE from the Alaska Highway in October 2017.

Photograph 2: View of the NE side of AEC 3, looking SW in October 2017.

Photograph 3: View of AEC 6 looking SE in October 2017.

Photograph 4: Example of typical material encountered during drilling program (BH17-134, 0-3m).

Photograph 5: Second layer geotextile facing South.

Photograph 6: View of the completed excavation at the north portion of AEC 6.

Photograph 7: View of the AEC 7 excavation in progress.

Photograph 8: View of the completed excavation at the south portion of AEC 5.

Photograph 9: View of STF 4 from MW16-04 on November 23, 2017.

Photograph 10: View of STF 4 on November 28, 2017.

Photograph 11: View of STF 4 on November 30, 2018.

Photograph 12: View of STF 4 on December 2, 2017.

Photograph 13: First load of contaminated soil being placed at STF 4.

Photograph 14: View of screening operations at STF 4.

Photograph 15: View of monitoring port at STF 4.

Appendix II

Borehole Logs

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-69**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616520.322	Easting: 604200.640	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery
0	GRAVEL (FILL), fine and coarse, subrounded, sandy, medium to coarse grained, brown, loose, damp.		60
1			
	GRAVEL, fine and coarse, subrounded, sandy, medium to coarse grained, brown, loose, damp.		
2	SAND, medium grained, gravelly, fine, subrounded, light brown, loose, damp.	**69-01**	0
3		**69-02**	75 / 0
4		**69-03** **69-04***	0
5		**69-05**	0
6		**69-06**	0
7		**69-07**	0
8		**69-08**	0
9	Bottom of hole at 9.1 m.		
10			

Soil Vapour (ppm) scale: 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-70**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616522.600	Easting: 604193.367	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

Depth (m)	Description
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, trace silt, brown, loose, moist.
1.3	SAND, fine to medium grained, gravelly, fine, subrounded, brown, loose, damp.
9.1	Bottom of hole at 9.1 m.

Sample Number: **70-01**, **70-02**, **70-03***, **70-04**, **70-05**, **70-06**, **70-07**, **70-08**, **70-09**, **70-10**

% Recovery: 40, 30

Soil Vapour (ppm): 0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-71**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 2

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616527.242	Easting: 604193.954	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, moist.			50	
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, moist. Below 2.4 m - trace silt.	71-01			0
3	Below 3.1 m - increasing silt. Below 3.4 m - hydrocarbon-like odour.	71-02		60	0
4		71-03			0
5	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, brown, loose, damp, hydrocarbon-like odour.	71-04			0
6		71-05			0
7	At 7.6 m - 0.08 m thick gravel layer, olive brown, wet.	71-06			55
8		71-07			0
9		71-08			0
10					

Stratigraphy Plot: BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-71**
	Location **Fireside Maintenance Camp, BC**	PAGE 2 OF 2

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616527.242	Easting: 604193.954	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
10	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, brown, loose, damp, hydrocarbon-like odour. *(continued)*						
11				**71-09**			0
				71-10			0
12	At 11.9 m - gravel seam, light brown, wet.						
	Bottom of hole at 12.2 m.						
13							
14							
15							
16							
17							
18							
19							
20							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-72**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 05
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616529.186	Easting: 604200.681	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Soil Vapour (ppm)

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace silt, brown, loose, moist.					50	
1							
2	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, trace silt, brown, loose, moist. Below 2.4 m - no coarse gravel, no silt, damp.						
3						70	
4							
5							
6						70	
7	Below 7.6 m - trace coarse gravel.						
8				**72-01** **72-02***		0	
9	Bottom of hole at 9.1 m.						
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-73**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 05
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616531.285	Easting: 604208.168	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

Depth (m)	Description
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine gravel, subrounded, trace coarse gravel, subrounded, brown, loose, moist.
1	At 0.9 m - cobble.
2	SAND and GRAVEL, medium to coarse grained sand, fine gravel, subrounded, trace coarse gravel, subrounded, brown, loose, moist.
4	Below 4.0 m - increasing gravel.
9	Bottom of hole at 9.1 m.

Sample Number: **73-01**, **73-02**, **73-03**, **73-04**, **73-05**, **73-06**, **73-07***

% Recovery: 35, 70, 55

Soil Vapour (ppm): 0, 0, 0, 0, 0, 0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-74**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616533.636	Easting: 604202.284	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, some silt, brown, loose, moist.		70	
1				
2	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, some silt, brown, loose, moist.			
	SAND and GRAVEL, medium to coarse grained sand, fine gravel, subrounded, trace coarse gravel, subrounded, brown, loose, moist.			
3		74-01	60	0
4		74-02		0
5	Below 5.2 m - no coarse gravel.	74-03		0
6	Below 6.1 m - some coarse gravel, subrounded.	74-04	90	20
7		74-05		0
8		74-06		0
9	Bottom of hole at 9.1 m.			
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-75**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 05
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616536.573	Easting: 604199.675	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to medium grained sand, fine gravel, subrounded, brown, loose, moist.			75-01		60	990
1				75-02			250
2				75-03		0	
3				75-04		75	135
4				75-05			80
5				75-06		0	
6				75-07		70	85
7				75-08			85
8				75-09		0	
9	Bottom of hole at 9.1 m.						
10							

Soil Vapour (ppm): 10^1, 10^2, 10^3, 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-76**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

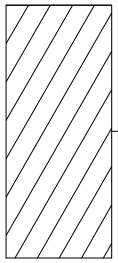
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 05
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616542.979	Easting: 604204.823	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, trace silt, grey/brown, loose, moist. Between 0.5 m and 0.9 m - sand stratum, medium grained, some gravel, rounded, olive brown, dense, moist, trace dark brown pockets.			**76-01**			0
1				**76-02**			0
2				**76-03**			0
	Bottom of hole at 2.1 m.						
3							
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-77**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

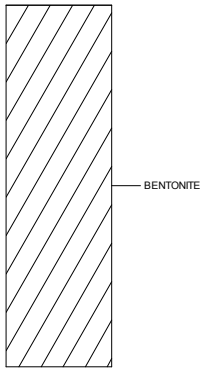
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 05
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616539.903	Easting: 604206.669	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, brown, loose, damp.			**77-01**		50	0
1							
2							
3	Bottom of hole at 3.1 m.						
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-78
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 05
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616545.481	Easting: 604210.874	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, brown, loose, moist.			78-01			0
1	At 0.8 m - cobble. Between 0.8 m and 1.1 m - sand layer, medium grained, trace gravel, rounded, mottled grey/brown and orange/brown, dense, moist.			78-02			0
2				78-03			0
3	Bottom of hole at 3.1 m.						
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-79**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616508.422	Easting: 604175.636	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, moist. Between 0.5 m and 0.6 m - black staining.			79-01		100	0
1	SAND, fine to medium grained, olive brown, loose, damp. Below 1.2 m - medium dense.			79-02			0
	Bottom of hole at 1.5 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-80
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616514.713	Easting: 604191.228	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4	
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, moist.			**80-01**		100	0	BENTONITE
1				**80-02** **80-03***			0	
	Bottom of hole at 1.5 m.							
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-81**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616541.573	Easting: 604217.130	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

○ Reading within indicated scale
● Reading outside indicated scale

Soil Vapour (ppm): 10^1, 10^2, 10^3, 10^4

Depth (m)	Description
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, moist.
	SAND, fine grained, trace gravel, fine, subrounded, olive brown, medium dense, moist.
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, damp.
5.5	At 5.5 m - light orange seam.
7.0–7.6	Between 7.0 m and 7.6 m - trace silt, orange/red.
9.1	Bottom of hole at 9.1 m.

Sample Number: **81-01**, **81-02**, **81-03**, **81-04**, **81-05***, **81-06**, **81-07**, **81-08**, **81-09**, **81-10**

% Recovery: 65, 60, 60

Soil Vapour (ppm): 0, 0, 0, 0, 0, 0, 0, 0, 75, 0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-82**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 06
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616620.738	Easting: 604141.393	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

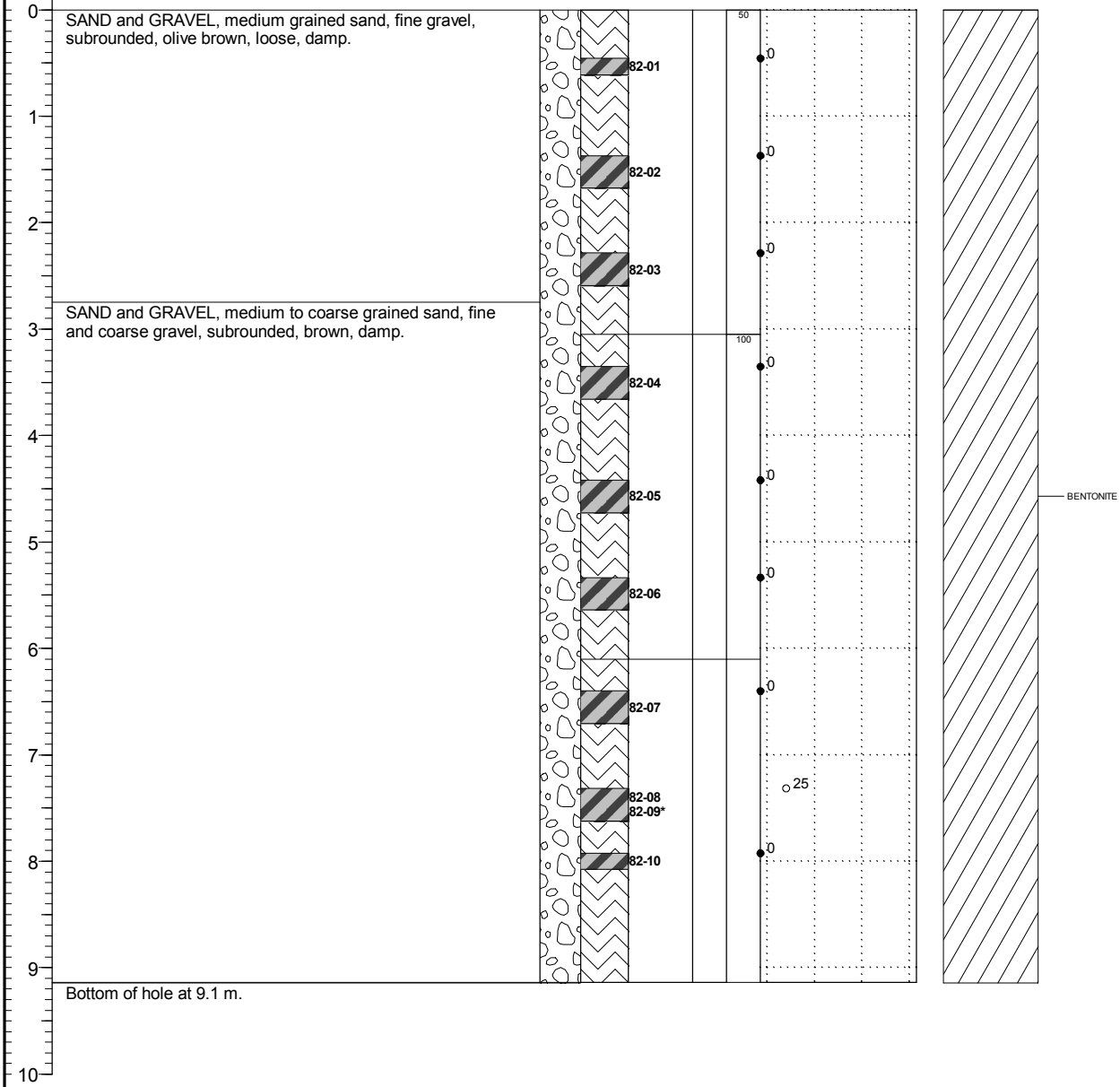
- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

0 SAND and GRAVEL, medium grained sand, fine gravel, subrounded, olive brown, loose, damp.

SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, damp.

Bottom of hole at 9.1 m.



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-83**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616618.084	Easting: 604134.342	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.		70	
1				
2				
3			70	
4	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist. At 4.6 m - orange pockets.	83-01		25
5	At 5.0 m - denser.	83-02		0
6	Below 6.1 m - trace orange patches.	83-03	70	330
7		83-04 83-05*		250 110
8		83-06		
9	Bottom of hole at 9.1 m.			
10				

Stratigraphy Plot; Sample Interval Core Run; Blow Count; % Recovery; Soil Vapour (ppm) 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-84
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616614.167	Easting: 604124.778	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, moist. At 0.5 m - cobble.			**84-01**		60	0
1	SAND, medium grained, olive brown, medium dense, moist.			**84-02**			20
2	Below 1.8 m - trace gravel, fine and coarse, subrounded, dark olive brown.			**84-03** **84-04***			0
	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey, dense, damp.						
3	Bottom of hole at 3.1 m.						

Soil Vapour (ppm) scale: 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-85**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616612.599	Easting: 604117.194	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, moist. Below 0.3 m - brown.			**85-01**			25
1	SAND, medium grained, olive brown, medium dense, moist.			**85-02**			45
2	Below 1.8 m - coarse grained sand pockets.			**85-03**			0
3	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey, dense, damp.						
	Bottom of hole at 3.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-86
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616609.573	Easting: 604107.886	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subangular, brown, dense, moist.		
	SAND and GRAVEL, fine grained sand, fine gravel, rounded, trace silt, trace clay, dark brown, medium dense, moist, some organics.	86-01	0
1	SAND, fine to medium grained, orange/brown, medium dense, moist.	86-02	0
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.	86-03	0
3	Bottom of hole at 3.1 m.		

Stratigraphy Plot; Sample Interval Core Run; Sample Number; Blow Count; % Recovery (70); Soil Vapour (ppm) 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-87**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616605.602	Easting: 604113.891	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Soil Vapour (ppm)

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.			
4	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.	**87-01**		0
5		**87-02** **87-03***		0
6	Below 6.1 m - coarse grained sand.	**87-04**	40	5
7	GRAVEL, fine and coarse, rounded to subrounded, some sand, trace silt, trace clay, brown, dense, moist. At 7.8 m - orange pockets.	**87-05** **87-06**		620 200
9	Bottom of hole at 9.1 m.			
10				

Soil Vapour (ppm): 10^1, 10^2, 10^3, 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-88**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616613.697	Easting: 604145.517	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Soil Vapour (ppm)
0	SAND, medium grained, gravelly, fine and coarse, subrounded, orange/brown, loose, damp. Below 0.3 m - light brown, dry.	88-01	190
	SAND, coarse grained, gravelly, fine and coarse, subrounded, brown, moist.		
1	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, subrounded to subangular, light grey/brown, dry.	88-02	1100
2		88-03	0
3	Below 2.9 m - damp.	88-04	20
4	Between 4.0 m and 4.3 m - dense.	88-05	0
5	Between 5.2 m and 6.1 m - dense.	88-06 88-07*	0
6	Between 6.4 m and 7.6 m - dense, dry. Below 6.4 m - increasing gravel, rounded.	88-08	65
7		88-09	0
8	Between 7.9 m and 9.1 m - dense, dry.	88-10	0
9	Bottom of hole at 9.1 m.		
10			

Blow Count: 79

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-89**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616612.275	Easting: 604134.810	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), fine to medium grained sand, fine and coarse gravel, subrounded, trace silt, brown, loose, damp.					50	
1	Between 1.2 m and 2.4 m - no silt.						
2							
3	Below 3.1 m - increased gravel, coarse grained sand.					60	
4							
5	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, subrounded, trace silt, brown, loose, damp.						
6	Below 6.1 m - no silt, hydrocarbon-like odour. At 6.4 m - cobble.					55	
7							
8				**89-01** **89-02***			0
9	Bottom of hole at 9.1 m.						
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-90**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616603.572	Easting: 604120.436	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

0 SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded, trace silt, brown, loose, damp.
Below 0.05 m - no silt.

1

2

3 Below 3.1 m - trace to some silt.

4

SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, trace silt, brown, loose, damp.

5 Below 4.9 m - no silt, hydrocarbon-like odour.

6

7

Between 7.6 m and 8.2 m - sand layer, fine to medium grained, brown, loose, damp.

8

9

Bottom of hole at 9.1 m.

10

% Recovery: 50, 70, 70

Soil Vapour (ppm): 0

Sample Number: **90-01**

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-91**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616599.538	Easting: 604115.096	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp to moist.		60	
1				
2	Between 2.4 m and 2.7 m - medium to fine grained sand, trace gravel, fine, subrounded.			
3	Between 3.7 m and 4.1 m - trace silt, oxidized.		90	
4	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp to moist.	**91-01**	0	
5	At 5.5 m - dense.	**91-02**	0	
6	Between 5.8 m and 6.1 m - coarse gravel, some sand, fine grained, trace silt, medium dense. At 6.1 m - dense.	**91-03** **91-04***	55 0	
7		**91-05**	30	
8		**91-06**	0	
9	Bottom of hole at 9.1 m.			
10				

Stratigraphy Plot: BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-92**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616591.755	Easting: 604105.997	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	GRAVEL, fine, rounded to angular, sandy, fine to coarse grained, brown, loose.		80	
	SAND, fine grained, orange/brown, medium dense moist. Below 0.4 m - brown.	**92-01**		350
1	Below 1.2 m - some gravel, coarse.			5
	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, light brown, medium dense, damp. At 1.7 m - trace orange pockets.	**92-02**		
2		**92-03**		0
3			65	
		92-04		0
4				0
		92-05		
5				30
		92-06		
6	GRAVEL, coarse, sandy, fine to coarse grained, some fine gravel, brown, medium dense, moist.		60	
	At 6.7 m - cobble.	**92-07**		0
7		**92-08**		0
8		**92-09** **92-10***		0
9	Bottom of hole at 9.1 m.			
10				

Stratigraphy Plot; Sample Interval Core Run; Blow Count; % Recovery; Soil Vapour (ppm) 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-93**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616584.588	Easting: 604108.562	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium grained sand, fine gravel, trace silt, brown, medium dense, moist.			80	
	SAND, fine to medium grained, orange/brown, dense, moist. Below 0.3 m - brown.	93-01			150
1	Below 1.2 m - some gravel, coarse, rounded.				
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, damp.	93-02		0	
2		93-03		0	
3	Below 3.1 m - moist.				
		93-04		0	
4		93-05		0	
5		93-06		0	
6				60	
	GRAVEL, fine and coarse, subrounded, sandy, fine to coarse grained, trace silt, brown, moist. At 6.7 m - cobble/boulder.	93-07			770
7		93-08			115
					300
8		93-09			
9	Bottom of hole at 9.1 m.				
10					

Stratigraphy Plot; Sample Interval Core Run; Soil Vapour (ppm) scale: 10^1, 10^2, 10^3, 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-94**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 07
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616587.100	Easting: 604112.918	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.					40	
1							
2	Below 2.1 m - gravelly.						
3							
4							
5	Below 5.2 m - trace silt.						
6						40	
7							
8	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist. Below 7.6 m - hydrocarbon-like odour.			**94-01**			0
9	Bottom of hole at 9.1 m.						
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-95**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616592.129	Easting: 604115.217	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.					47	
1							
2	Below 1.8 m - medium grained sand.						
3						70	
4							160
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.			95-01			
5	Below 4.8 m - light brown.						0
				95-02			
6						76	85
				95-03			
7							1000
				95-04			
				95-05 95-06*			0
8	Bottom of hole at 8.1 m.						
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-96**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616581.202	Easting: 604115.426	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.					42	
1							
2							
3	Below 3.1 m - medium grained sand.					47	
4							
5							
6	Below 6.1 m - increased gravel content.					55	
7							
	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.			**96-01** **96-02***			0
8	Bottom of hole at 8.1 m.						
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-97**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616563.881	Easting: 604115.880	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND (FILL), fine to medium grained, gravelly, fine and coarse, subrounded, brown, medium dense, damp.		30	
1	At 0.9 m - cobble.			
2				
3			60	
	SAND, fine to medium grained, gravelly, fine and coarse, subrounded, brown, medium dense, damp.	97-01		0
4		97-02		0
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, brown, medium dense, damp.			
5		97-03		0
6	Below 6.1 m - increasing gravel.		62	
		97-04		0
7		97-05		0
	Between 7.6 m and 7.9 m - sandy, coarse grained, moist.			
8		97-06		0
	Bottom of hole at 8.1 m.			
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-98
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616564.670	Easting: 604109.456	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense, damp.						175
	SAND, fine grained, trace gravel, fine, subrounded, orange/brown, dense, damp.			98-01			
1	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp.						0
	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			98-02			0
2	Bottom of hole at 2.0 m.			98-03			
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-99
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616559.754	Easting: 604110.892	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, medium dense, damp.						
	SAND, fine grained, orange/brown, dense, moist.						
1	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, moist. Below 0.9 m - light brown. At 1.5 m - cobble.			**99-01**			0
2	Bottom of hole at 2.0 m.						
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-100**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

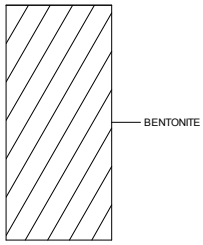
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616554.925	Easting: 604108.535	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, rounded, trace rootlets.					96	
	SAND, fine to medium grained, orange/brown, medium dense, moist.			**100-01**			0
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, dark orange/brown, medium dense, moist. Below 1.1 m - light brown.			**100-02** **100-03*** **100-04**			0 0
2	Bottom of hole at 2.0 m.						
3							
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-101
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616536.267	Easting: 604133.754	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4	
0	SAND, medium grained, some gravel, fine, rounded, grey/brown, loose, moist.							
				101-01			0	
	SAND, fine grained, trace cobbles, rounded, orange/brown, dense, damp.							
				101-02			0	
1	Bottom of hole at 1.1 m.							BENTONITE
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-102**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616565.646	Easting: 604121.251	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.						
1							
2							
3	Below 3.1 m - fine to medium grained sand.						
4							
5							
6				**102-01**		133	0
	GRAVEL, fine and coarse, sandy, coarse grained, trace cobbles, brown, medium dense, wet. At 6.4 m - cobble.						
7							
8				**102-02**			0
	GRAVEL, fine and coarse, subrounded, some silt, trace sand, brown, medium dense, wet.						
9							
	Bottom of hole at 9.1 m.						
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-103**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616558.888	Easting: 604124.911	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.			40	
1					
2	Between 2.4 m and 3.0 m - medium grained sand.				
3	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.			70	900
		103-01			
4		**103-02**			30
5	Below 5.2 m - dense.	**103-03**		0	
6	Below 6.1 m - increasing gravel.			90	
		103-04		0	
7		**103-05**			35
8	GRAVEL, fine and coarse, trace silt, trace sand, brown, wet.	**103-06**			620
	Bottom of hole at 8.1 m.				
9					
10					

Soil Vapour (ppm): 10^1, 10^2, 10^3, 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-104**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

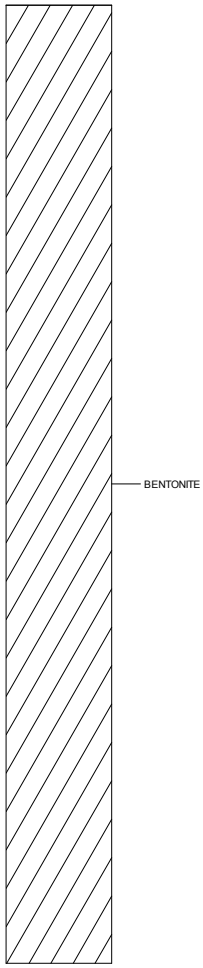
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616570.030	Easting: 604123.776	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.		50	
1				
2	Below 2.4 m - medium grained sand.			
3				
4				
5				
6		**104-01**	0	0
	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.		0	
7				
	GRAVEL, fine and coarse, subrounded, some silt, some sand, brown, wet.	**104-02**		0
8	Bottom of hole at 8.1 m.			
9				
10				



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-105**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616564.267	Easting: 604127.546	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		45
1			
2			
	SAND and GRAVEL (FILL), medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		
3	At 3.1 m - cobble.		67
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		
4			
5			
6		**105-01**	0
	GRAVEL, fine and coarse, subrounded, some sand, coarse grained, brown, medium dense, moist.		50
	At 6.7 m - cobble.		
7	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, trace silt, brown, medium dense, damp.		
8		**105-02**	110
9			
	Bottom of hole at 9.1 m.		
10			

Soil Vapour (ppm) scale: 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-106**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616565.346	Easting: 604131.793	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		50	
1				
2	SAND and GRAVEL (FILL), medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			
3	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		67	750
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.	**106-01**		
4		**106-02**		10
5		**106-03**		0
6		**106-04**	103	100
7	Below 7.0 m - dense.	**106-05** **106-06***		0
8		**106-07**		0
	Bottom of hole at 8.1 m.			
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-107**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616572.597	Easting: 604131.670	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		60	
1				
2	SAND and GRAVEL (FILL), medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			
3			90	0
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense, damp. Below 3.7 m - medium grained sand, brown.	107-01		
4				0
	Below 4.6 m - dense.	107-02		
5				0
		107-03		
6	Below 6.1 m - coarse grained sand.		70	60
		107-04		
7				0
		107-05		
8		107-06		0
9	At 9.1 m - cobbles.			
	Bottom of hole at 9.1 m.			
10				

Soil Vapour (ppm) scale: 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-108
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616570.048	Easting: 604148.782	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale; 10^1 10^2 10^3 10^4

Depth in Metres	Soil Description	Sample Number	Soil Vapour (ppm)
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		
	SAND, medium grained, orange/brown, medium dense, moist.	**108-01**	0
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp.	**108-02**	0
	Bottom of hole at 1.1 m.		

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-109**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616575.882	Easting: 604155.796	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, damp.						
	At 0.5 m - cobble.			**109-01**			0
	SAND, fine grained, orange/green, mottled, medium dense, moist.						
1	Below 0.8 m - brown, no mottling.			**109-02**			0
	Bottom of hole at 1.1 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-110**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616579.400	Easting: 604156.082	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, brown, dense, damp.						
	At 0.6 m - 0.01 m organics seam, dark brown, rootlets.						
	SAND, fine grained, grey, medium dense, damp, organic odour.			**110-01** **110-02***			0
1	Below 0.8 m - orange/brown.						
	Bottom of hole at 1.1 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-111**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

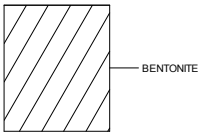
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616585.664	Easting: 604162.424	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, grey/brown, medium dense, hydrocarbon-like odour. Below 0.3 m - orange/brown.						
	Below 0.6 m - grey/brown.			**111-02**			0
1	SAND, fine grained, grey, medium dense, damp. Below 1.0 m - orange/brown.			**111-01**			0
	Bottom of hole at 1.1 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-112
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616594.173	Easting: 604161.150	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, grey/brown, medium dense, damp.			112-01			0
1	At 1.0 m - organics seam, dark brown.						
	SAND, fine grained, orange/brown, dense, damp.						0
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			112-02			
2				112-03			0
	Bottom of hole at 2.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-113
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616598.919	Easting: 604154.607	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded and subangular, brown, medium dense, damp.			113-01			0
1	At 1.1 m - 0.05 m organics seam, dark brown, soft, moist, rootlets.						
	SAND, fine grained, grey, medium dense, moist. Below 1.4 m - grey/brown.			113-02			0
2	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, light grey/brown, dense, dry.			113-03			0
	Bottom of hole at 2.1 m.						
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-114
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 08
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616595.885	Easting: 604153.273	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, brown, medium dense, damp.						
1	SAND, fine grained, orange/brown, mottled green, dense, moist.						
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, grey/brown, dense, dry.			**114-01** **114-02***			● 0
2	Bottom of hole at 2.1 m.						
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-115**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616589.480	Easting: 604142.049	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

Depth (m)	Description
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp.
	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp. Below 0.6 m - dense, hydrocarbon-like odour.
1	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.
6	Below 6.1 m - trace silt.
7	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.
8	Bottom of hole at 8.1 m.

Sample Number: **115-01**, **115-02**, **115-03**, **115-04**, **115-05**, **115-06**, **115-07**

% Recovery: 95, 90, 92

Soil Vapour (ppm): 0, 470, 0, 0, 4950, 0, 0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-116**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616591.883	Easting: 604137.992	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, brown, medium dense, damp.					85	
1	SAND and GRAVEL (FILL), medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp. Between 0.9 m and 1.1 m - no gravel, woody debris.						
2	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.						
3						100	
4							BENTONITE/CUTTINGS
5	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.						
6	Between 6.1 m and 6.7 m - trace silt.					77	
7							
8	Bottom of hole at 8.1 m.			**116-01** **116-02***		0	
9							
10							

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-117**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616595.270	Easting: 604145.754	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.					100	
1	SAND, fine to medium grained, orange/brown, medium dense, damp. Below 1.2 m - brown.						
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			**117-01**		0	
3				**117-02**		90	50
4				**117-03**		0	
5				**117-04**		0	
6				**117-05**		100	75
7				**117-06**		0	
8				**117-07**		0	
	Bottom of hole at 8.1 m.						
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-118**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616600.459	Easting: 604142.722	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

Depth (m)	Description
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.
	Between 0.46 m and 0.51 m - black staining.
	SAND, fine grained, orange/brown, dense, damp.
1	Below 1.1 m - medium grained sand, brown, hydrocarbon-like odour.
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, light grey/brown, dense, dry.
2	
3	
4	
5	
6	
7	
8	Bottom of hole at 8.1 m.
9	
10	

Sample Number: 118-03; 118-01; 118-02*

% Recovery: 100; 80; 0

Soil Vapour (ppm): 110

CUTTINGS

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-119**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616601.468	Easting: 604150.731	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, damp.	119-01		95
	SAND, fine grained, some gravel, fine, subrounded, orange/brown, dense, moist.			
1		119-02 119-03*	0	
	Below 1.5 m - medium grained sand, trace gravel, brown.			
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, dense, damp.	119-04	0	
3		119-05		120
4		119-06		240
5		119-07	0	
6		119-08		370
7		119-09	0	
8		119-10	0	
	Bottom of hole at 8.1 m.			
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-120**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616607.156	Easting: 604147.883	Log Typed By:	NDS

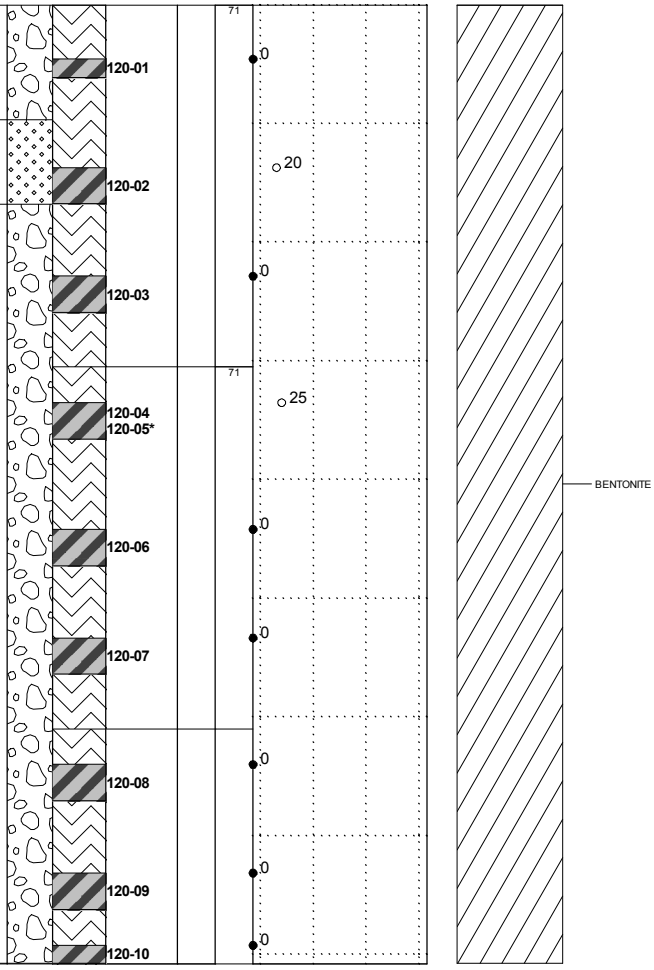
Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subangular, grey/brown, medium dense, damp. Below 0.5 m - light brown. Below 0.6 m - brown.	**120-01**	71	0
1	SAND, fine to medium grained, light brown, dense, damp.	**120-02**		20
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, light grey/brown, dense, damp.	**120-03**		0
3		**120-04** **120-05***	71	25
4		**120-06**		0
5		**120-07**		0
6	Between 6.1 m and 7.0 m - hydrocarbon-like odour.	**120-08**		0
7		**120-09**		0
8	Bottom of hole at 8.1 m.	**120-10**		0
9				
10				

Stratigraphy Plot



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-121**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 09
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616608.217	Easting: 604143.855	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp. Below 0.3 m - dark brown. Below 0.5 m - orange/brown. Below 0.8 m - brown.					80	
1	SAND, fine to medium grained, trace gravel, brown, medium dense, damp. At 1.4 m - woody debris.						
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.						
3						90	
4							
5							
6	Below 6.1 m - hydrocarbon-like odour.					100	
7							
8	Bottom of hole at 8.1 m.			**121-01** **121-02***		0	
9							
10							

BENTONITE/CUTTINGS

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-122**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616621.417	Easting: 604187.764	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded to angular, grey/brown, moist, damp.		62	
	At 0.5 m - black material (suspect asphalt).	**122-01**		10
1		**122-02**		0
	SAND, orange/brown, mottled, medium dense, moist.			
2	Below 2.3 m - brown.	**122-03**		50
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, dense, dry.	**122-04**		5
3	Bottom of hole at 3.1 m.			
4				
5				
6				
7				
8				
9				
10				

Soil Vapour (ppm) scale: 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-123**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616627.352	Easting: 604178.156	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded to subangular, light brown, dense, moist.	123-01	54	0
	Below 0.6 m - grey/brown, hydrocarbon-like odour.	123-02		60
		123-03		260
		123-04		55
3	SAND, fine grained, orange/brown, medium dense, damp, hydrocarbon-like odour. Below 3.1 m - no odour.	123-05		0
4	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, dense, damp.	123-06		0
5	Below 4.9 m - increased gravel, decreased sand.	123-07		0
6		123-08		0
	Bottom of hole at 6.1 m.			

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-124**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616631.828	Easting: 604172.456	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, light brown, dense, damp. Below 0.5 m - grey/brown.			**124-01**		77	0
1	SAND, fine grained, trace silt, orange/brown, medium dense, damp.			**124-02** **124-03*** **124-04**			0 0
2	Bottom of hole at 2.0 m.						
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-125
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616642.809	Easting: 604177.590	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, dense, damp. Below 0.4 m - light brown.			125-01			0
1	SAND, fine grained, some gravel, fine and coarse, subrounded, trace silt, orange/brown, medium dense, damp.			125-02			0
	Bottom of hole at 1.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-126
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616620.218	Easting: 604166.592	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, oxidized, dense, damp. Below 0.2 m - no oxidation. Below 0.6 m - grey.			126-01		41	0
1				126-02			0
2	SAND, fine grained, gravelly, fine and coarse, subrounded to angular, orange/brown, medium dense, damp.			126-03 126-04*			0
3				126-05			0
	Bottom of hole at 3.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-127**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616570.247	Easting: 604181.257	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, dense, damp.	127-01	88	0
1	SAND, fine grained, some gravel, fine, subrounded to subangular, orange/brown, medium dense, damp.			
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, dense, dry.	127-02		0
2		127-03		280
3		127-04	100	55
4		127-05		0
5		127-06		0
6		127-07		0
7		127-08		0
8		127-09		0
9	At 9.0 m - cobble. Bottom of hole at 8.1 m.			
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-128**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616569.303	Easting: 604187.153	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, grey/brown, dense, damp.		63
	WOOD DEBRIS (lumber).		
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, grey/brown, dense, damp, hydrocarbon-like odour.		
2			
3		**128-01** **128-02*** 128-03	86
4		**128-04**	
5		**128-05**	
6		**128-06**	
7		**128-07**	
8		**128-08**	
	Bottom of hole at 8.1 m.		
9			
10			

Soil Vapour (ppm) readings: 0, 15, 0, 0, 0, 0, 0, 0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-129**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616573.277	Easting: 604195.605	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp. Below 0.2 m - orange/brown.	129-01 129-02*	49	0
1		129-03		0
2		129-04		0
3	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, damp, hydrocarbon-like odour.	129-05	66	0
4		129-06		0
5		129-07		0
6		129-08	90	0
7		129-09		0
8		129-10		0
	Bottom of hole at 8.1 m.			
9				
10				

Stratigraphy Plot

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-130**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616584.271	Easting: 604194.975	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, medium dense, moist.	130-01	73	95
	Below 0.4 m - grey/brown.			
	Between 0.6 m and 0.7 m - black charcoal layer, hydrocarbon-like odour.			
1	SAND, fine grained, trace silt, brown, medium dense, moist.			
	Below 1.3 m - medium grained sand.	130-02		0
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, dry.			
2		130-03		0
3		130-04		0
	Bottom of hole at 3.1 m.			
4				
5				
6				
7				
8				
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-131
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616581.012	Easting: 604185.025	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp.			131-01		46	0
1				131-02			0
2				131-03			0
3				131-04			0
	Bottom of hole at 3.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-132**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616577.794	Easting: 604189.288	Log Typed By:	NDS

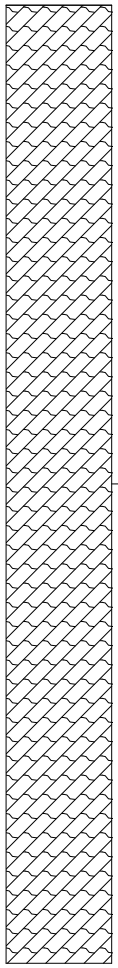
Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Soil Vapour (ppm)

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery
0	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded to angular, orange/brown, medium dense, damp.					48
1						
2						
3	Between 3.1 m and 6.1 m - dense.					60
4						
5	Below 4.9 m - light grey/brown, dry.					
6						100
7	Between 6.4 m and 6.7 m - sand layer, coarse grained, trace gravel, fine, subrounded.					
8	Bottom of hole at 8.1 m.			**132-01** **132-02***		0
9						
10						



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-133**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616559.168	Easting: 604182.587	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to angular, grey/brown, medium dense, wet.	133-01	75	0
	SAND, fine to medium grained, orange/brown, loose, damp.			
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, damp.	133-02		0
2		133-03		0
3		133-04	52	0
4		133-05		0
5		133-06		0
6		133-07		0
7		133-08		0
8		133-09		0
	Bottom of hole at 8.1 m.			
9				
10				

Soil Vapour (ppm): 10^1, 10^2, 10^3, 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-134**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616536.686	Easting: 604223.377	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), fine to medium grained sand, fine and coarse gravel, subrounded to subangular, some silt, brown, medium dense, moist.					60	
1							
	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, grey/brown, dense, damp.						
2							
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, grey/brown, dense, damp.						
3						69	
4							CUTTINGS
5							
6						94	
	GRAVEL, fine and coarse, subrounded, some sand, fine to coarse grained, some silt, brown, moist. Below 6.4 m - dark brown. Below 6.7 m - orange/brown.						
7	SAND, coarse grained, trace gravel, fine, light orange/brown, loose, damp, hydrocarbon-like odour. Below 7.8 m - black/white.			134-01			50
8	Bottom of hole at 8.1 m.						
9							
10							

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-135**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616535.335	Easting: 604229.783	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, grey/brown, dense, damp.					
1						
2						
2	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, grey/brown, dense, damp.					
3						
4						
5						
6	GRAVEL, fine and coarse, subrounded, some sand, fine to coarse grained, some silt, dark brown, moist. Below 6.6 m - orange/brown.					
7	SAND, coarse grained, trace gravel, fine, light orange/brown, loose, damp, hydrocarbon-like odour. Below 7.3 m - black/white.					
8				135-01		
8	Bottom of hole at 8.1 m.					
9						
10						

Soil Vapour (ppm): 10^1, 10^2, 10^3, 10^4

0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-136**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 10
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616531.707	Easting: 604238.727	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, dense, damp.					43
1						
2						
2	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, dense, damp.					
3						47
4						
5						
6						90
6	GRAVEL, fine and coarse, subrounded, some sand, some silt, dark brown, loose, moist.					
6	SAND, coarse grained, trace gravel, orange/brown, loose, damp, hydrocarbon-like odour.					
7	Below 7.5 m - black/white.					
8				136-01		0
8	Bottom of hole at 8.1 m.					
9						
10						

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

CUTTINGS

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-137**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616562.706	Easting: 604190.322	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, medium dense, damp.			137-01 137-02*		75	0
1	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp. Below 1.1 m - decreased gravel. SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			137-03			0
2				137-04			0
3				137-05		70	30
4				137-06			0
5				137-07			0
6	Between 6.6 m and 6.9 m - increased gravel.			137-08		100	0
7				137-09			0
8	Bottom of hole at 8.1 m.			137-10			0
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-138**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616543.501	Easting: 604227.859	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.	138-01	60	1100
1	SAND, fine grained, some gravel, fine and coarse, subrounded, light brown, dense, damp.	138-02		0
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			
2		138-03		0
3			50	
		138-04 138-05*		0
4	Between 4.3 m and 4.6 m - wet.	138-06		0
5		138-07		0
6	GRAVEL, fine and coarse, rounded to subrounded, trace sand, coarse grained, trace silt, orange/brown, medium dense, damp.		62	
		138-08		0
	SAND, coarse grained, trace gravel, fine and coarse, subrounded, orange, medium dense, damp.			
7	Below 7.3 m - brown, mottled black/white.	138-09		0
8		138-10		0
	Bottom of hole at 8.1 m.			
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-139**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616542.324	Easting: 604236.082	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, subrounded, trace silt, brown, medium dense, moist.	139-01		100	75
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp, hydrocarbon-like odour. Below 0.5 m - no odour.				
1	SAND, fine grained, trace gravel, fine and coarse, subrounded, brown, mottled orange, dense, damp.	139-02			0
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp. Between 2.0 m and 2.4 m - trace silt. At 2.1 m - dark brown seam, soft, organic odour.				
2		139-03			0
3				55	
		139-04			0
	Between 3.7 m and 4.0 m - increased gravel.				
4		139-05			0
5		139-06			0
6				62	
		139-07			45
7	SAND, coarse grained, brown, mottled black/white, medium dense, damp, 0.01 to 0.02 m thick medium grained sand lenses.	139-08 139-09*			0
8		139-10			0
	Bottom of hole at 8.1 m.				
9					
10					

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-140**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616534.337	Easting: 604241.306	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Soil Vapour (ppm)
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, moist.	140-01	240
1		140-02	80
2		140-03	0
3		140-04	110
4	Below 3.7 m - trace silt.	140-05	440
5	Below 5.2 m - no silt.	140-06 140-07*	0
6	SAND, coarse grained, brown/black/white, loose, damp.	140-08	0
7	Below 7.3 m - some gravel, fine.	140-09	0
8		140-10	0
	Bottom of hole at 8.1 m.		
9			
10			

Stratigraphy Plot; Sample Interval Core Run; Sample Number; Blow Count; % Recovery; Soil Vapour (ppm) 10^1 10^2 10^3 10^4

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-141**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616526.290	Easting: 604253.667	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, brown, medium dense, damp.			141-01			0
	Below 0.7 m - dark grey/brown.			141-02			0
1	SAND and GRAVEL, medium grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp.						
	Bottom of hole at 1.1 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-142**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

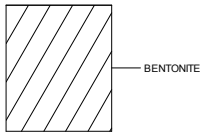
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616525.733	Easting: 604252.084	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, grey/brown, medium dense, moist.						
	SAND, fine grained, trace gravel, fine, orange/brown, dense, damp.						
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, orange/brown, dense, damp.			**142-01** **142-02***			0
	Bottom of hole at 1.1 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-143**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616525.876	Easting: 604247.728	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), coarse grained sand, fine and coarse gravel, subrounded, grey/brown, moist. Between 0.6 m and 1.2 m - fine to medium grained sand, orange/grey/brown.					96	
1							
2							
2	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, moist.						
3				143-01			0
4				143-02			0
5				143-03			0
6						50	
				143-04			0
7				143-05			0
8	SAND, coarse grained, light orange/brown, loose, damp. Below 7.8 m - medium grained sand, grey/brown.			143-06			0
	Bottom of hole at 8.1 m.						
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-144**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616523.264	Easting: 604241.013	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense.					49	
1							
2							
3						20	
4							
5							
	SAND (FILL), coarse grained, some gravel, fine, grey/brown, loose, damp.						
6						72	
7							
8	Below 7.9 m - dark brown, hydrocarbon-like odour.			**144-01**		0	
	Bottom of hole at 8.1 m.						
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-145**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616517.506	Easting: 604245.145	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Soil Vapour (ppm)

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, rounded to subrounded, grey/brown, medium dense, damp.						
1							
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, rounded to subrounded, grey/brown, medium dense, damp. Below 2.1 m - dense.			**145-01** **145-02***		0	
3				**145-03**		0	
4				**145-04**			105
5				**145-05**		0	
6				**145-06**	63	0	
7	SAND and GRAVEL, coarse grained sand, fine gravel, grey, wet, hydrocarbon-like odour. SAND, coarse grained, some gravel, fine, brown, loose, damp, hydrocarbon-like odour.			**145-07**		0	
8	Bottom of hole at 8.1 m.			**145-08**		0	
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-146
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616512.709	Easting: 604234.747	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense, damp.					62	
1							BENTONITE
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense, damp. At 1.5 m - 0.05 m coarse grained sand layer, orange/brown. Below 1.7 m - orange/brown.			**146-01**			0
2	Bottom of hole at 2.0 m.						
3							
4							
5							
6							
7							
8							
9							
10							

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-147
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616510.890	Easting: 604228.686	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4	
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown.			**147-01**		67	0	BENTONITE
1	SAND, fine grained, trace gravel, fine and coarse, rounded, trace silt, brown, dense, damp. At 1.7 m - 0.01 m organics seam, dark brown. Below 1.8 m - medium grained sand, orange/brown, loose.			**147-02**			15	
2	Bottom of hole at 2.0 m.			**147-03**			0	
3								
4								
5								
6								
7								
8								
9								
10								

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-148**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616507.328	Easting: 604238.339	Log Typed By:	NDS

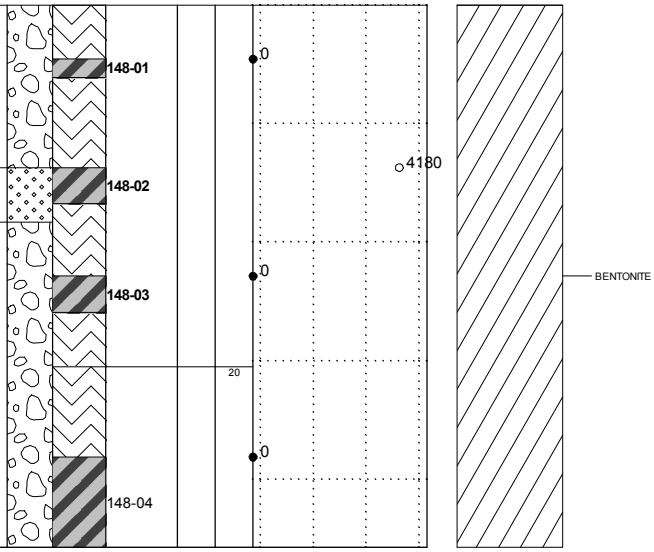
Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, moist.	**148-01**			● 0
1	At 0.9 m - metal piece.				○ 4180
	SAND, fine grained, grey/brown, dense, damp, trace roots, hydrocarbon-like odour.	**148-02**			
2	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, damp, hydrocarbon-like odour.	**148-03**			● 0
3				20	
4		148-04			● 0
	At 4.6 m - cobble. Bottom of hole at 4.6 m.				
5					
6					
7					
8					
9					
10					

Stratigraphy Plot / Sample Interval Core Run



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-149
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616495.590	Easting: 604197.196	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, wet.					95	
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, dark brown, medium dense, damp, some organics.						
1	Below 0.3 m - grey/brown, dense, no organics.			**149-01**			0
	SAND, fine grained, orange/brown, medium dense, damp.						
	Bottom of hole at 1.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-150
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616489.699	Easting: 604190.049	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- ○ Reading within indicated scale
- ● Reading outside indicated scale

10^1 10^2 10^3 10^4

Depth (m)	Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.		80	
	SAND, medium grained, orange/brown, loose, damp.	**150-01**		○ 15
1		**150-02** **150-03***		● 0
	Bottom of hole at 1.5 m.			
2				
3				
4				
5				
6				
7				
8				
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-151
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

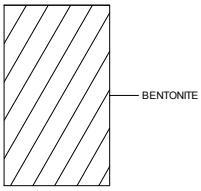
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616494.155	Easting: 604182.481	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm)
- ○ Reading within indicated scale
- ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, brown, medium dense, moist.					73	
1	SAND, medium grained, orange/brown, loose, damp. Below 1.1 m - grey/brown.			**151-01**			0
	Bottom of hole at 1.5 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-152
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616496.172	Easting: 604176.109	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			152-01		66	0
1	SAND, fine grained, orange/brown, medium dense, damp.			152-02			0
	Bottom of hole at 1.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-153
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

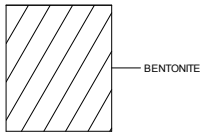
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616505.520	Easting: 604202.742	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, medium dense, damp.			**153-01**			○ 10
	SAND, fine grained, orange/brown, medium dense, damp.			**153-02** **153-03***			● 0
1	Bottom of hole at 1.1 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-154
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 11
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616512.249	Easting: 604210.164	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, medium dense, damp, hydrocarbon-like odour.	154-01	85	0
1	At 0.8 m - 0.05 m orange seam.	154-02		0
		154-03		0
2	SAND, medium grained, trace gravel, fine, light grey/brown, very loose, dry to damp.	154-04		0
3	Bottom of hole at 3.1 m.	154-05		0
4				
5				
6				
7				
8				
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-155**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616522.176	Easting: 604209.159	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- ○ Reading within indicated scale
- ● Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

Depth (m)	Description
0	SAND and GRAVEL (FILL), medium to coarse grained sand, fine and coarse gravel, subrounded to angular, brown, medium dense, moist.
2	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded to angular, brown, medium dense, moist.
4	SAND, coarse grained, trace gravel, fine and coarse, subrounded, grey/brown, damp.
7	Between 7.3 m and 8.1 m - trace cobbles.
8	Bottom of hole at 8.1 m.

Sample Number: **155-01**, **155-02**, **155-03**, **155-04**, **155-05**, **155-06**, **155-07**

% Recovery: 50, 57, 92

Soil Vapour (ppm): 0, 0, 0, 0, 0, 0, 0

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-156**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616491.839	Easting: 604243.306	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, medium dense, damp.	**156-01**	100	0
	At 0.7 m - 0.1 m dark grey/black seam.	156-02		230
1	At 1.1 m - 0.05 m dark grey seam, fine grained sand, fine gravel, dense.	**156-03**	100	0
	Below 1.1 m - subrounded to angular gravel.			
	SAND, fine grained, orange/brown, loose, damp.			
2		**156-04**		0
	Below 2.6 m - medium grained sand, brown, very loose.	**156-05**		0
3	Bottom of hole at 3.1 m.			
4				
5				
6				
7				
8				
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-157**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616486.423	Easting: 604256.444	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense, damp.	**157-01**	60	15
	SAND, fine grained, orange/brown, medium dense, damp.			
1		**157-02**		45
2				0
	Below 2.4 m - grey/brown.	**157-03**		
3		**157-04**		0
	Bottom of hole at 3.1 m.			
4				
5				
6				
7				
8				
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-158
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616464.843	Easting: 604272.430	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, grey/brown, medium dense, damp.			**158-01**		73	0
1	SAND, fine grained, orange/brown, loose, damp.			**158-02**			0
	Bottom of hole at 1.7 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-159**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616477.850	Easting: 604263.877	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Description

Depth in Metres | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm)

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm): 10^1 10^2 10^3 10^4

Depth (m)	Description	Sample Number	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, grey/brown, medium dense, damp.	159-01	0
	Below 0.6 m - dark grey/brown.		
1	SAND, fine grained, light brown, mottled, medium dense, damp.		125
	At 1.5 m - sand and gravel seam, coarse grained sand, fine gravel.	159-02	
2		159-03	0
3	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, damp.	159-04	0
	Bottom of hole at 3.1 m.		

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-160**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616454.328	Easting: 604266.959	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4	
0	SAND and GRAVEL, fine to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp, grass, rootlets.					85		
	SAND, fine grained, brown, medium dense, damp.			**160-01** **160-02***			0	BENTONITE
1	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			**160-03**			0	
	Bottom of hole at 1.5 m.							
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-161**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

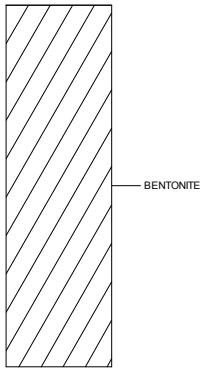
Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616396.773	Easting: 604268.135	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, subrounded, light brown, medium dense, moist.			161-01			○ 180
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, damp.			161-02			● 0
2				161-03			● 0
3				161-04			● 0
	Bottom of hole at 3.1 m.						



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-162**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616388.285	Easting: 604268.788	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and ORGANICS, dark brown, wet, grass, rootlets.					53	
	SAND, fine to medium grained, some gravel, subrounded, light brown, dense, damp.			162-01			○ 780
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.						
1				162-02			○ 25
2							○ 30
				162-03			
3				162-04			● 0
	Bottom of hole at 3.1 m.						
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-163**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616396.069	Easting: 604276.199	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded to subangular, brown, medium dense, damp, rootlets.			163-01 163-02*		60	45
	SAND, fine to medium grained, orange/brown, mottled, medium dense, damp.						
1	At 1.1 m - cobble.						
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, medium dense, damp.			163-03			0
2				163-04			0
3							15
				163-05			
4							0
				163-06			
5							
6	Bottom of hole at 6.1 m.						
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-164**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616388.859	Easting: 604277.099	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND, fine grained, orange/brown, medium dense, damp, rootlets. Below 0.5 m - no rootlets.			164-01			● 0
1	At 1.5 m - trace wood debris.			164-02			○ 270
2	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, brown, medium dense, damp.			164-03			○ 25
3	Bottom of hole at 3.1 m.			164-04			● 0
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client
Public Services and Procurement Canada

Location
Fireside Maintenance Camp, BC

Borehole No. : BH17-165

PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616457.647	Easting: 604255.958	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, brown, medium dense, moist.					66	
	SAND, fine to medium grained, brown, mottled orange, medium dense, damp.			**165-01**			0
1	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			**165-02**			0
	Bottom of hole at 1.7 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-166**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616466.199	Easting: 604250.929	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, trace coarse gravel, brown, medium dense, damp, rootlets. Below 0.2 m - no rootlets.					79	○ 15
	SAND, fine to medium grained, trace gravel, fine and coarse, subrounded, light brown, mottled orange, medium dense, damp.			**166-01**			
1				**166-02**			● 0
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp. At 1.7 m - cobble.						
2	Bottom of hole at 1.7 m.						
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-167
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616476.536	Easting: 604244.962	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, trace silt, brown, medium dense, damp.			**167-01**		55	0
1	Below 1.2 m - no silt, grey/brown.			**167-02**			0
	Below 1.5 m - some coarse gravel, orange/brown.						
2	SAND, fine grained, orange/brown, medium dense, damp.			**167-03**			0
3	Bottom of hole at 3.1 m.			**167-04**			0
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-168**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616485.374	Easting: 604241.834	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, trace silt, brown, medium dense, damp, rootlets.	168-01	95	0
	Below 0.5 m - no silt, dark brown.			
	Below 0.6 m - orange/brown.			
1	Below 1.2 m - fine and coarse gravel.	168-02		135
	SAND, fine grained, brown, mottled orange, medium dense, damp.			
2	Below 1.7 m - no mottling.			
	At 2.4 m - 0.04 m medium grained sand seam.	168-03		0
3	SAND, fine to coarse grained, brown, mottled black/white, medium dense, damp.	168-04		0
	Bottom of hole at 3.1 m.			
4				
5				
6				
7				
8				
9				
10				

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-169**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	JS
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616504.617	Easting: 604237.672	Log Typed By:	NDS

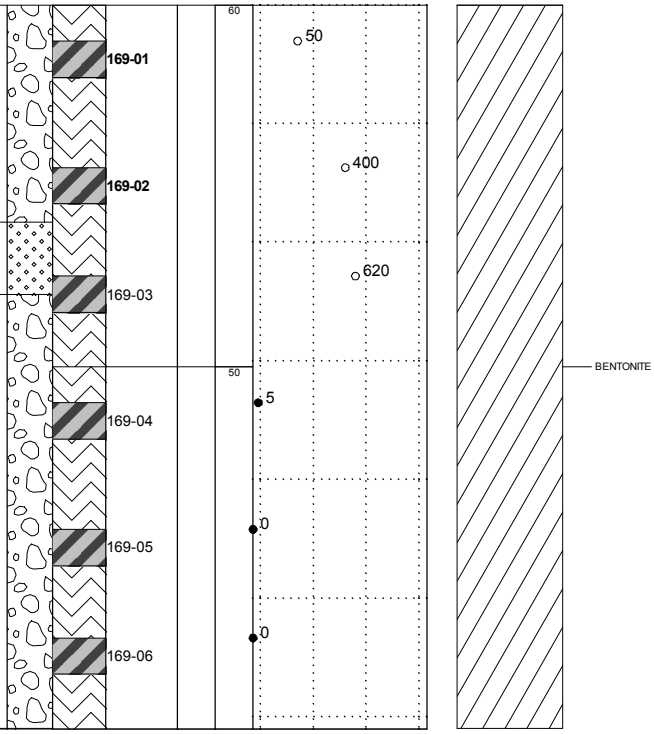
Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to coarse grained sand, fine gravel, subrounded, trace silt, brown, medium dense, damp. Below 0.1 m - hydrocarbon-like odour. Below 0.6 m - no silt.	**169-01**		60	50
1	Below 1.2 m - coarse gravel, dark brown.	**169-02**			400
2	SAND, fine grained, light brown, medium dense, damp. Between 2.1 m and 2.3 m - orange/brown.	169-03			620
	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.				
3		169-04		50	5
4	Below 4.3 m - increasing gravel, some cobbles.	169-05			0
5		169-06			0
6	Bottom of hole at 6.1 m.				
7					
8					
9					
10					

Stratigraphy Plot



NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-170**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616535.839	Easting: 604243.598	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Soil Vapour (ppm)
0	SAND and GRAVEL, coarse grained sand, fine gravel, rounded to subrounded, brown, medium dense.		
	SAND, fine to medium grained, trace gravel, fine, rounded, orange/brown, medium dense, damp.	**170-01**	720
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, rounded to subrounded, brown, medium dense, damp.		
		170-02	80
2		170-03	0
3		170-04	400
4		170-05	210
5	At 5.2 m - trace sand pockets, orange.	170-06 170-07*	15
6		170-08	340
	SAND, coarse grained, brown, loose, damp.		
7		170-09	15
8		170-10	0
	Bottom of hole at 8.1 m.		
9			
10			

Soil Vapour (ppm) scale: 10^1, 10^2, 10^3, 10^4

% Recovery: 69

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-171**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616540.364	Easting: 604224.373	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense.			171-01			55
	Below 0.5 m - dark brown, trace organics.						
1	SAND, fine to medium grained, some gravel, coarse, rounded to subrounded, orange/brown, medium dense, damp.						
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, grey/brown, dense, damp.			171-02			55
2				171-03			0
3				171-04			0
	Bottom of hole at 3.1 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-172**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 12
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616539.605	Easting: 604199.054	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense.			57	
	SAND, fine grained, trace gravel, rounded, orange/brown, mottled, medium dense, damp.	172-01			0
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.	172-02			45
2		172-03			25
	Below 2.8 m - dry.				
3		172-04			200
4		172-05			95
5		172-06			0
6		172-07			15
7		172-08			0
8		172-09			0
	Bottom of hole at 8.1 m.				
9					
10					

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-173
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616548.668	Easting: 604272.001	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.						
	SAND, fine grained, black, medium dense, damp, hydrocarbon-like odour. Below 0.6 m - brown.			**173-01** **173-02***			60
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp.			**173-03**			20
				173-04			20
	Bottom of hole at 1.5 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-174
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616540.883	Easting: 604277.428	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

○ Reading within indicated scale
● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4	
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, medium dense, moist.							
	SAND, fine grained, dark grey, medium dense, hydrocarbon-like odour.			**174-01**			● 0	
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, orange/brown, medium dense, damp.			**174-02**			● 0	BENTONITE
	Bottom of hole at 1.7 m.							
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-175
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616572.127	Easting: 604301.459	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND, fine grained, trace gravel, fine, orange/brown, medium dense, damp.						
	SAND, medium grained, trace gravel, fine and coarse, subrounded, dark grey, medium dense, damp, trace organics, hydrocarbon-like odour.			**175-01**		100	0
1	Between 0.6 m and 0.7 m - increased gravel. At 1.0 m - 0.01 m organics seam.						
	SAND, fine grained, orange/brown, mottled, damp.						0
	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, orange/brown, loose, damp.			**175-02**			
2	Bottom of hole at 1.7 m.						
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client
Public Services and Procurement Canada

Location
Fireside Maintenance Camp, BC

Borehole No. : BH17-176

PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616583.852	Easting: 604303.410	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, brown, loose, damp. At 0.3 m - cobble.			176-01 176-02*		100	20
1	At 0.9 m - wood debris and organics, brown, soft, moist. SAND, fine grained, trace silt, orange/brown, mottled, medium dense, damp.			176-03			5
	Bottom of hole at 1.7 m.						

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-177
Public Services and Procurement Canada	
Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616594.270	Easting: 604294.481	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4	
0	SAND, medium grained, some gravel, trace cobbles, orange/brown, loose, damp, trace rootlets.			177-01		55	0	BENTONITE
	At 0.7 m - woody debris.							
1	SAND, fine grained, trace silt, brown, loose, moist.			177-02			0	
	Bottom of hole at 1.7 m.							
2								
3								
4								
5								
6								
7								
8								
9								
10								

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-178
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616598.665	Easting: 604277.887	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, rounded to subrounded, brown, loose, damp.			178-01			○ 20
	ORGANICS, dark brown, soft, woody debris.						
1	SAND, fine grained, trace silt, orange/brown, mottled, medium dense, damp.			178-02			● 0
	Bottom of hole at 1.7 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN

Client	Borehole No. : BH17-179
Public Services and Procurement Canada	
Location	PAGE 1 OF 1
Fireside Maintenance Camp, BC	

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616601.912	Easting: 604290.710	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Reading within indicated scale
Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm) 10^1 10^2 10^3 10^4
0	SAND, fine to medium grained, some gravel, fine, orange/brown, damp, some rootlets.			179-01			0
	At 0.8 m - organics, dark brown, woody debris.						
1	SAND, fine grained, trace silt, orange/brown, mottled, dense, moist.			179-02			0
	Bottom of hole at 1.7 m.						
2							
3							
4							
5							
6							
7							
8							
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-180**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616615.289	Easting: 604147.609	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Sample Number	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, rounded to subrounded, brown, loose, damp.	**180-01**	50	80
1		**180-02**	0	
2		180-03	0	
3	SAND and GRAVEL, medium to coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, damp.	180-04	0	
4		180-05		500
5		180-06 180-07*	0	
6		180-08		660
7		180-09		15
8	Bottom of hole at 8.1 m.	180-10	0	
9				
10				

Stratigraphy Plot: BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-181**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616620.996	Easting: 604134.752	Log Typed By:	NDS

Drilling Legend
- Sample Interval
- Vibrasonic

Water/NAPL Levels
- Water Level 1
- Water Level 2
- NAPL
- NAPL

Soil Vapour (ppm): ○ Reading within indicated scale; ● Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL, fine to medium grained sand, fine and coarse gravel, subrounded, brown, medium dense, damp.			181-01			200
1				181-02		0	
2				181-03		0	
3	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, grey/brown, dense, moist.			181-04			50
4				181-05			15
5				181-06		0	
6				181-07			60
7				181-08 181-09*		0	
8	Bottom of hole at 8.1 m.			181-10		0	
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

DRAFT

SNC·LAVALIN	Client **Public Services and Procurement Canada**	**Borehole No. : BH17-182**
	Location **Fireside Maintenance Camp, BC**	PAGE 1 OF 1

Drilling Contractor	Geotech Drilling Services Ltd.	Date Monitored	n/a	Project Number:	636200
Drilling Method	Vibratory Sonic	Ground Surface Elev. (m)	n/a	Borehole Logged By:	CP
Borehole Dia. (m)	0.10	Top of Casing Elev. (m)	n/a	Date Drilled:	2017 10 13
Pipe/Slotted Pipe Dia. (m)	none/none	Northing: 6616583.127	Easting: 604105.905	Log Typed By:	NDS

Drilling Legend: Sample Interval; Vibrasonic

Water/NAPL Levels: Water Level 1; Water Level 2; NAPL; NAPL

Reading within indicated scale; Reading outside indicated scale

Depth in Metres	Soil Description	Stratigraphy Plot	Sample Interval Core Run	Sample Number	Blow Count	% Recovery	Soil Vapour (ppm)
0	SAND and GRAVEL (FILL), fine to coarse grained sand, fine and coarse gravel, subrounded to subangular, grey/brown, dense, wet.			182-01		85	1210
	SAND, fine grained, orange/brown, medium dense, damp.						
1	SAND and GRAVEL, coarse grained sand, fine and coarse gravel, subrounded, trace cobbles, orange/brown, dense, damp.						60
	Below 1.4 m - grey/brown.			182-02			
2				182-03		0	
3						72	35
				182-04 182-05*			
4						0	
				182-06			
5						0	
				182-07			
6	Below 6.0 m - increasing coarse gravel, increasing cobbles.					51	
				182-08 182-09		0	
7							
8	At 7.8 m - fine grained sand pockets, orange.			182-10 182-11		0	
	Bottom of hole at 8.1 m.						
9							
10							

BENTONITE

NOTES
Bolded sample denotes sample analyzed. *denotes blind field duplicate.

QA CLS 2017 11 27 Print Date:2017-12-07

Appendix III

Contractor Submittals

REFERENCE DRAWINGS		
DRAWING NO	DRAWING DESCRIPTION/TITLE	REF
-	-	1

Copyright © Allnorth Consultants Limited and affiliated companies, all rights reserved. The information contained in this document is the exclusive property of Allnorth Consultants Limited and affiliated companies and shall not be reproduced, or disclosed, or communicated to any unauthorized person, or used in any other unauthorized manner form whatsoever, without the express written permission of Allnorth Consultants Limited and affiliated companies.

REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
1	2018/02/28	**ADD AEC VOLUMES - ISSUED FOR REVIEW**	IHY	GAF
0	2017/11/29	ISSUED FOR REVIEW	IHY	GAF

CLIENT:

MATCON CANADA

Allnorth

CLIENT NO:		DRWN: IHY	DATE: 17/11/28
PROJECT NO:	17-FN-0029	DSGN: GAF	DATE: 17/11/24
DRAWING SIZE:	ANSI "B"	CHKD:	DATE:
SCALE:	AS NOTED	APVD:	DATE:

PROJECT:

FIRESIDE MAINTENANCE CAMP SITE SURVEY

TITLE:

SITE PLAN

DWG NO: **17FN0029-000-1900-001** REV: **1**

Date: 2018/02/28 2:41 PM | User: Irene Yarham | File: C:\CURRENT PROJECT\from Gary\17FN0029-000-1900-001R1 | Layout: 001 | Paper Size: 558.8mm x 431.8mm

From:	Chris Brown
To:	Guest, Meredith
Cc:	James Fox
Subject:	FW: weight tickets
Date:	January 11, 2018 3:56:34 PM
Attachments:	image001.png Matcon _Weight slip1.pdf Matcon_Weight slip2.pdf

---

Hi Meredith

See attached the weigh scale tickets for the concrete and metal disposal. The tickets are hard to see for starters but I could make it out. The way you figure out the weight is by the second last number on each ticket and they go as follows:

8,210 kg - Metal
13,870 kg – Concrete with Rebar
16,410 kg – Concrete with Rebar
20,750 kg – Concrete with Rebar

Total – 59.24 tonne, I guess they just round up in the Yukon. Anyway they charged us 60 tonne but that's fine we can just use the numbers on the tickets.

That said we would be looking for the $25 upcharge for rebar for 51 tonne.

I am off to Hawaii for a week starting tomorrow but will pop into my email periodically. James can likely help out with any questions as he is intimate with the job.

Sincerely,

Chris Brown, B.Sc., PMP
Project Manager
MATCON
Vancouver, CAN | Seattle, USA
Dir: 604.545.0334
Cel: 604.313.1997
www.matcon.ca

From: Northern Enviro [mailto:northernenviro@outlook.com]
Sent: January-10-18 7:28 AM
To: Chris Brown <chrisb@matcon.ca>
Subject: weight tickets

Hey Chris

Attached are the weight tickets very hard to read due to the poor quality. Let me know if I should trace over them and resend.

Thanks

Lorena Funnell
Northern Enviro Services
PO Box 867 Watson Lake, Yukon
Y0A-1C0
24-hr. Office 867-536-7361

This email and any attachments may contain confidential and privileged information. If you are not the intended recipient, please notify the sender immediately by return mail, delete this message, and destroy any copies. Any dissemination or use of this information by a person other than the intended recipient is unauthorized and may be illegal or actionable by law

CF 962 4p

WATSON LAKE Y.T.
WEIGH STATION

2017 DEC -8 P 1:35

WATSON LAKE YT

12-08-2017 13:37:37

Weigh Group: 1
Platform Weight: 7570

Weigh Group: 2
Platform Weight: 13870

Vehicle Weight: 21440

321
CJ-581

WATSON LAKE YT

12-05-2017 13:23:28

Weigh Group: 1
Platform Weight: 4770

Weigh Group: 2
Platform Weight: 10010

Weigh Group: 3
Platform Weight: 8210

Vehicle Weight: 22990

WATSON LAKE Y.T.
WEIGH STATION

2017 DEC -5 P 1:23

CJ459 6x

WATSON LAKE YT

12-08-2017 14:31:17

Weigh Group: 1
Platform Weight: 5350

Weigh Group: 2
Platform Weight: 15250

Weigh Group: 3
Platform Weight: 16410

Vehicle Weight: 37010

2017 DEC -8 P 2:40

WATSON LAKE Y.T.
WEIGH STATION

CG405 6x

WATSON LAKE YT

12-08-2017 14:38:29

Weigh Group: 1
Platform Weight: 5610

Weigh Group: 2
Platform Weight: 17520

Weigh Group: 3
Platform Weight: 20750

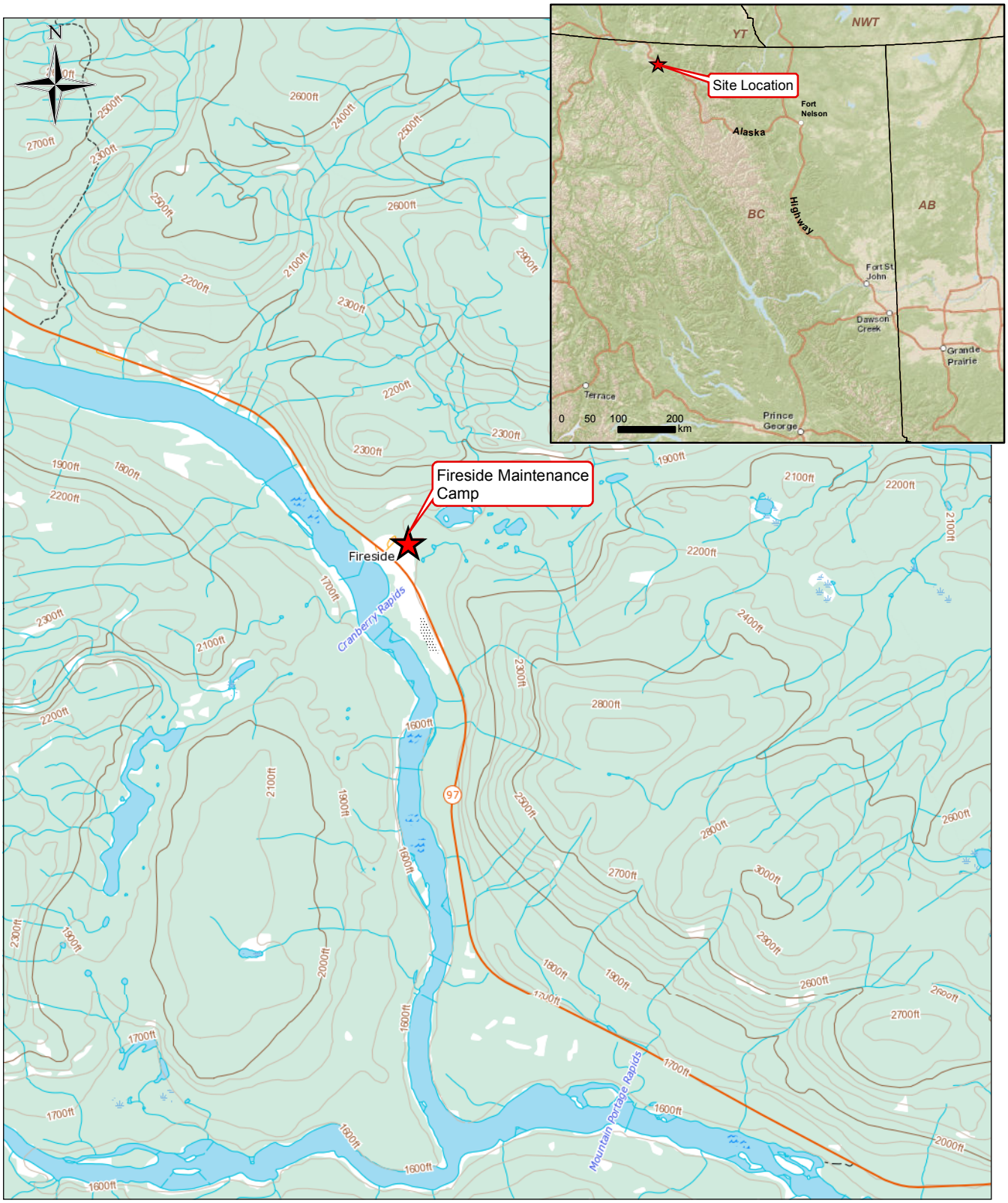
Vehicle Weight: 44180

2017 DEC -8 P 2:40

WATSON LAKE Y.T.
WEIGH STATION

Appendix IV

Site Summary Drawings



LEGEND

★ Site Location

NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

SNC • LAVALIN

CLIENT NAME:	PROJECT LOCATION:
Public Services and Procurement Canada	Fireside Maintenance Camp Alaska Highway, BC

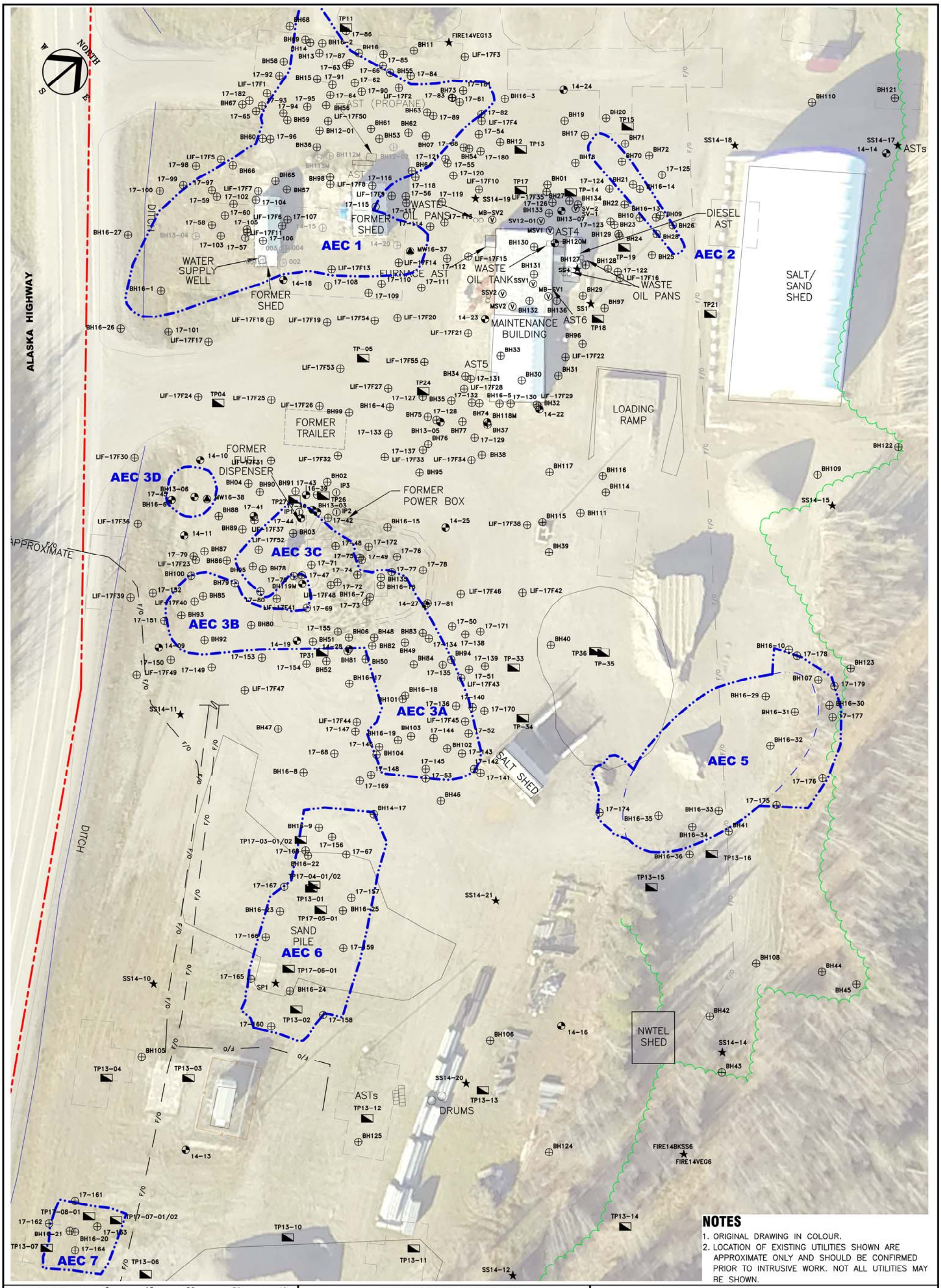
Fireside Maintenance Camp Site Location

0 0.5 1 2 3 4 Kilometers

BY: PB	DATE: 2017-03-03	REF No: 636200-901	REV: 0
CHK'D: CS	SCALE: 1:50,000		

MXD Path: P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside\4.0 Execution\4.5 GIS and Drawings (Secure)\GIS\MapSeries\623385-001.mxd

Project Path: "P:\Current Projects\Public Works and Gov't Services Canada\623385 Fireside"



NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.

LEGEND

0 10 20 30 40 METRES

- SUBJECT PROPERTY LIMITS
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- FIBRE OPTIC LINE
- FORMER SITE CONFIGURATION
- SITE FEATURE
- REMEDIAL EXCAVATION BOUNDARY
- BOREHOLE
- MONITORING WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TESTPIT
- SURFACE SAMPLE
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT

REFERENCE DRAWINGS

DWG. NO.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
1	2018-03-29	ISSUED TO CLIENT	PES	CS
0	2017-09-07	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC SERVICES AND PROCUREMENT CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE:

SITE PLAN AND INFRASTRUCTURE RESTRICTIONS

DWN BY: PES	SCALE: 1:800	DATE: 2017-09-07	DWG No: 636200-902 REV.: 1
CHK'D: CS	PLOT: 20180315.1738	CADFILE: 636200R16	

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R16.DWG

BH53	Sample Depth	LEPH	HEPH
BH53-5	9.1 - 9.1	2,900	410
BH53-6	10.7 - 10.7	4,700	680

BH61	Sample Depth	LEPH	HEPH
BH61-1	10.8 - 10.8	570	<250
BH61-2	12.3 - 12.3	1,700	250
BH61-3	13.5 - 13.5	520	<250
BH61-4	16.5 - 16.5	<250	<250

BH17-62	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-62-07	5.0 - 5.2	<0.005	0.06	<0.05	1.53	46	941	39	45	854	180	<20	1.02	<0.05	<0.2	0.3	<0.6
BH17-62-08	5.9 - 6.1	<0.005	0.04	<0.05	0.77	25	1,010	42	27	986	214	<20	1.26	<0.05	<0.2	0.4	<0.6
BH17-62-10	7.5 - 7.8	–	–	–	–	–	789	34	–	684	197	<20	0.10	<0.05	<0.2	0.2	<0.6

BH12-01	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH12-01-15-AD05	12.7 - 13.0	<0.02	<0.05	<0.05	<0.1	14	878	<20	0.4	<0.01	<0.02	<0.02
BH12-01-32-AD05	25.5 - 25.8	<0.02	<0.05	<0.05	<0.1	<10	<20	<20	<0.01	<0.01	<0.02	<0.02
BH12-01-36-AD05	28.5 - 28.8	<0.02	<0.05	<0.05	<0.1	<10	<20	<20	<0.01	<0.01	<0.02	<0.02

BH36	Sample Depth	LEPH	HEPH
BH36-3	9.1 - 9.1	2,300	<250
BH36-4	12.0 - 12.0	1,700	300
BH36-5	15.0 - 15.0	370	<250

LIF-17F8	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F8-01	20.6 - 21.0	<0.005	<0.01	<0.05	<0.05	84	559	25	87	510	135	<20	<0.005	<0.005	<0.02	0.04	<0.6

LIF-17F9	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F9-01	22.8 - 23.3	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	0.008	<0.005	0.02	0.03	<0.6

LIF-17F14	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F14-01	22.4 - 22.9	<0.005	<0.01	<0.05	<0.05	116	2,460	202	120	1,430	559	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH14-15	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-15-07-AD05	4.0 - 4.0	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-15-11-AD05	8.4 - 8.4	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-15-13-AD05	10.5 - 10.5	<0.01	<0.02	<0.04	<0.08	<20	3,030	1,230	0.063	<0.14	<0.1	1.4
BH14-15-15-AD05	12.8 - 12.8	<0.01	<0.02	<0.04	<0.08	<20	653	335	<0.1	<0.1	<0.1	<0.1
BH14-15-18-AD05	15.4 - 15.4	<0.01	<0.02	<0.04	<0.08	<20	126	137	<0.1	<0.1	<0.1	<0.1
BH14-15-26-AD05	22.4 - 22.4	<0.01	<0.02	<0.04	<0.08	40	2,020	138	<0.1	<0.1	<0.14	<0.14
BH14-15-27A-AD05	23.8 - 23.8	<0.01	<0.02	<0.04	<0.08	<20	116	<200	<0.1	<0.1	<0.1	<0.1
BH14-15-27-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-15-30-AD05	27.0 - 27.0	<0.01	<0.02	<0.04	<0.08	<20	132	<200	<0.1	<0.1	<0.1	<0.1

LIF-17F6	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F6-01	25.5 - 25.8	<0.005	<0.01	<0.05	<0.05		980	38	30	773	162	<20	<0.005	<0.005	<0.02	0.17	<0.6
LIF-17F6-02	26.5 - 26.8	0.008	0.01	<0.05	0.05		641	30	<10	461	129	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F6-03	27.2 - 27.5	–	–	–	–		–	–	<10	<20	24	<20	–	–	–	–	–
LIF-17F6-04	28.0 - 28.3	–	–	–	–		–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F6-05	28.7 - 29.1	<0.005	<0.01	<0.05	<0.05		<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F6-06	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05		<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F6-07	29.9 - 30.2	–	–	–	–		–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F6-09	32.0 - 32.3	–	–	–	–		–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F6-10	33.5 - 33.9	<0.005	<0.01	<0.05	<0.05		<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F6-11	34.6 - 35.1	–	–	–	–		–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F54	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F54-01	22.3 - 22.6	–	–	–	–	–	–	–	95	1,800	524	<20	–	–	–	–	–
LIF-17F54-02	23.5 - 23.8	<0.005	<0.01	<0.05	<0.05	37	3,570	264	46	3,480	1,180	<20	<0.05	<0.05	1.0	1.8	<0.6
LIF-17F54-03	24.1 - 27.5	–	–	–	–	–	–	–	66	1,030	380	<20	–	–	–	–	–
LIF-17F54-04	25.0 - 25.3	<0.005	<0.01	<0.05	<0.05	<10	176	<20	<10	169	54	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F54-05	25.6 - 25.9	–	–	–	–	–	–	–	59	304	238	<20	–	–	–	–	–
LIF-17F54-06	26.4 - 26.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F54-07	DUP. OF ABOVE	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F54-08	27.4 - 27.7	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F54-10	29.6 - 29.9	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F54-12	31.4 - 31.7	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F54-13	32.5 - 32.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F54-14	33.2 - 33.5	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F54-15	34.1 - 34.4	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH14-18	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-18-01-AD05	0.3 - 0.3	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-18-19-AD05	20.6 - 20.6	<0.01	0.014	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-18-20-AD05	22.4 - 22.4	<0.01	<0.02	<0.04	<0.08	<20	171	<200	<0.1	<0.1	<0.1	<0.1
BH14-18-25A-AD05	27.0 - 27.0	<0.01	<0.02	<0.04	<0.08	<20	259	<200	<0.1	<0.1	<0.1	<0.1
BH14-18-25-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	521	<200	<0.1	<0.1	<0.1	<0.1
BH14-18-27-AD05	29.0 - 29.0	<0.01	<0.02	<0.04	<0.08	17	1,130	<200	<0.1	<0.1	<0.26	0.17

LIF-17F19	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F19-01	19.7 - 19.8	–	–	–	–	–	–	–	<10	597	248	21	–	–	–	–	–
LIF-17F19-02	20.6 - 20.7	–	–	–	–	–	–	–	38	1,570	485	<20	–	–	–	–	–
LIF-17F19-03	21.2 - 21.5	<0.005	<0.01	<0.05	<0.05	44	2,010	146	44	1,700	576	<20	<0.005	<0.005	0.38	0.28	<0.6
LIF-17F19-04	DUP. OF ABOVE	0.009	0.01	<0.05	0.07	71	1,200	91	71	1,010	354	<20	<0.005	<0.005	0.21	0.17	<0.6
LIF-17F19-05	22.9 - 23.0	–	–	–	–	–	–	–	<10	34	41	<20	–	–	–	–	–
LIF-17F19-06	23.6 - 23.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F19-08	25.0 - 25.1	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F19-10	27.9 - 28.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F19-12	31.1 - 31.2	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F19-13	32.5 - 32.6	–	–	–	–	–	–	–	<10	<20	25	<20	–	–	–	–	–
LIF-17F19-14	34.1 - 34.3	<0.005	<0.01	<0.05	<0.05	25	1,400	<20	23	1,040	151	<20	<0.005	<0.005	0.09	0.16	<0.6
LIF-17F19-15	35.7 - 35.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

BH16-12	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	IACR
BH16-12-1	0.9 - 1.2	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	0.31
BH16-12-2	5.5 - 5.8	<0.0050	<0.010	<0.020	<0.040	<10	<100	100	<10	<10	120	0.013	0.016	0.022	0.11	7.2
BH16-12-3	10.1 - 10.4	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	110	<0.010	<0.0050	<0.020	<0.010	0.31
BH16-12-9	20.7 - 21.0	<0.0050	<0.010	<0.020	<0.040	95	2,120	271	99	1,800	730	<0.23	<0.11	<0.59	0.89	0.31
BH16-12-10	DUP. OF ABOVE	<0.0050	0.017	0.035	0.056	100	1,940	239	110	1,700	680	<0.21	<0.096	0.55	0.81	0.31
BH16-12-13	30.0 - 30.3	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	12	45	<0.010	<0.0050	<0.020	<0.010	0.31

LIF-17F18	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F18-01	23.9 - 24.2	<0.005	<0.01	<0.05	<0.05	–	480	36	<10	385	172	<20	<0.005	<0.005	0.02	<0.02	<0.6
LIF-17F18-02	24.8 - 25.1	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F18-03	25.6 - 25.9	<0.005	<0.01	<0.05	<0.05	–	1,030	63	20	694	258	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F18-04	26.5 - 26.8	–	–	–	–	–	–	–	67	1,540	571	<20	–	–	–	–	–
LIF-17F18-05	27.7 - 28.2	<0.005	<0.01	<0.05	<0.05	–	2,120	<20	104	1,670	241	<20	<0.005	<0.005	0.36	0.22	<0.6
LIF-17F18-06	DUP. OF ABOVE	0.026	0.01	0.10	0.08	–	1,900	<20	76	1,560	221	<20	<0.005	<0.005	0.35	0.22	<0.6
LIF-17F18-07	29.0 - 29.3	–	–	–	–	–	–	–	25	976	230	<20	–	–	–	–	–
LIF-17F18-08	30.5 - 30.8	<0.005	<0.01	<0.05	<0.05	–	1,340	64	54	1,120	263	<20	<0.005	<0.005	0.12	0.29	<0.6
LIF-17F18-09	31.5 - 31.9	–	–	–	–	–	–	–	14	782	210	<20	–	–	–	–	–
LIF-17F18-10	32.5 - 32.8	<0.005	<0.01	<0.05	<0.05	–	1,550	76	118	1,170	261	<20	<0.005	<0.005	0.49	0.48	<0.6
LIF-17F18-11	33.4 - 34.0	<0.005	<0.01	<0.05	<0.05	–	435	24	<10	401	88	<20	<0.005	<0.005	0.12	0.16	<0.6
LIF-17F18-12	34.7 - 35.3	<0.005	<0.01	<0.05	<0.05	–	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

LIF-17F53	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F53-01	20.7 - 21.0	–	–	–	–	–	–	–	70	978	326	<20	–	–	–	–	–
LIF-17F53-02	21.6 - 21.9	<0.005	<0.01	<0.05	<0.05	154	2,630	193	165	2,350	805	<20	<0.05	<0.05	<0.2	0.8	<0.6
LIF-17F53-03	22.6 - 22.9	–	–	–	–	–	–	–	44	2,290	785	<20	–	–	–	–	–
LIF-17F53-04	23.3 - 23.6	<0.005	<0.01	<0.05	<0.05	58	3,670	252	68	3,370	1,100	<20	<0.05	<0.05	0.4	1.0	<0.6
LIF-17F53-05	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	36	3,380	234	46	2,800	917	<20	<0.05	<0.05	0.4	0.9	<0.6
LIF-17F53-06	24.2 - 24.4	–	–	–	–	–	–	–	66	3,190	1,050	<20	–	–	–	–	–
LIF-17F53-07	24.7 - 25.0	–	–	–	–	–	–	–	103	3,370	1,370	<20	–	–	–	–	–
LIF-17F53-08	25.3 - 25.6	<0.005	<0.01	<0.05	<0.05	<10	3,230	256	<10	2,610	1,080	<20	<0.05	<0.05	<0.2	0.6	<0.6
LIF-17F53-09	26.0 - 26.4	–	–	–	–	–	–	–	<10	25	21	<20	–	–	–	–	–
LIF-17F53-10	27.1 - 27.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F53-11	27.7 - 28.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F53-13	29.4 - 29.7	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F17	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F17-01	25.5 - 25.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F17-03	27.1 - 27.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F17-05	28.9 - 29.4	<0.005	<0.01	<0.05	<0.05	–	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F17-06	DUP. OF ABOVE	0.009	<0.01	<0.05	<0.05	–	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F17-08	31.5 - 31.9	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F17-09	32.5 - 32.9	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F17-10	33.1 - 33.5	<0.005	<0.01	<0.05	<0.05	–	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F17-11	34.5 - 34.9	<0.005	<0.01	<0.05	<0.05	–	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

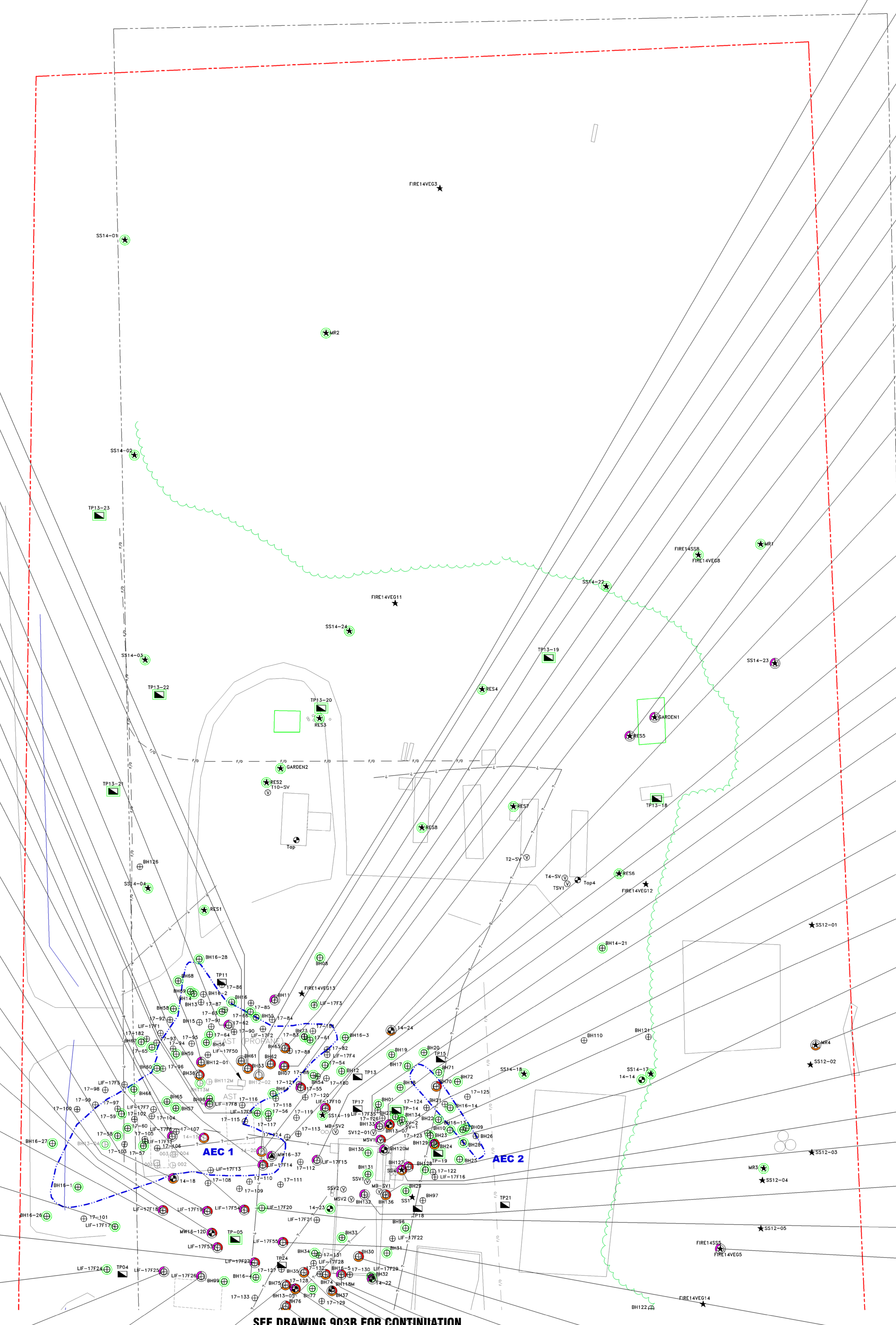
LIF-17F27	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F27-01	20.1 - 20.4	<0.005	<0.01	<0.05	<0.05	<10	788	65	<10	679	288	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F27-02	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	453	58	<10	328	203	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F27-03	21.2 - 21.3	–	–	–	–	–	–	–	84	1,510	536	<20	–	–	–	–	–
LIF-17F27-04	22.1 - 22.3	–	–	–	–	–	–	–	72	1,240	233	<20	–	–	–	–	–
LIF-17F27-05	23.2 - 23.3	<0.005	<0.01	<0.05	<0.05	81	2,940	140	82	2,450	669	<20	<0.05	<0.05	0.3	0.5	<0.6
LIF-17F27-06	25.0 - 25.1	–	–	–	–	–	–	–	61	3,530	1,730	<20	–	–	–	–	–
LIF-17F27-07	25.9 - 26.1	–	–	–	–	–	–	–	52	1,170	741	<20	–	–	–	–	–
LIF-17F27-08	28.2 - 28.3	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F27-09	26.8 - 27.0	–	–	–	–	–	–	–	19	139	94	<20	–	–	–	–	–

LIF-17F24	Sample Depth	F1	F2	F3	F4
LIF-17F24-01	25.1 - 25.3	<10	<20	<20	<20
LIF-17F24-02	27.6 - 27.7	<10	<20	<20	<20
LIF-17F24-03	29.0 - 29.1	<10	<20	<20	<20
LIF-17F24-05	31.2 - 31.4	<10	<20	<20	<20
LIF-17F24-06	DUP. OF ABOVE	<10	<20	<20	<20
LIF-17F24-07	31.4 - 32.9	<10	<20	<20	<20
LIF-17F24-08	33.4 - 33.5	<10	<20	<20	<20
LIF-17F24-09	34.3 - 34.4	<10	<20	<20	<20
LIF-17F24-10	35.8 - 36.0	<10	<20	<20	<20

LIF-17F25	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F25-01	23.8 - 24.1	–	–	–	–	–	–	–	23	450	200	43	–	–	–	–	–
LIF-17F25-02	25.0 - 25.3	–	–	–	–	–	–	–	43	694	358	23	–	–	–	–	–
LIF-17F25-03	25.6 - 25.9	<0.005	<0.01	<0.05	<0.05	48	1,430	120	42	1,100	464	35	<0.005	<0.005	<0.02	0.11	<0.6
LIF-17F25-04	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	35	1,350	108	35	928	389	31	<0.005	<0.005	<0.02	0.03	<0.6
LIF-17F25-05	26.3 - 26.6	–	–	–	–	–	–	–	<10	697	266	27	–	–	–	–	–
LIF-17F25-06	27.1 - 27.4	–	–	–	–	–	–	–	13	454	189	36	–	–	–	–	–
LIF-17F25-07	28.0 - 28.3	–	–	–	–	–	–	–	<10	<20	<20	27	–	–	–	–	–
LIF-17F25-08	28.7 - 29.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F25-10	30.3 - 30.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F25-11	31.5 - 31.9	<0.005	<0.01	<0.05	<0.05	<10	67	<20	<10	47	25	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F25-12	32.5 - 32.8	–	–	–	–	–	–	–	<10	248	62	24	–	–	–	–	–
LIF-17F25-13	33.1 - 33.4	–	–	–	–	–	–	–	<10	256	72	36	–	–	–	–	–
LIF-17F25-14	33.8 - 34.1	–	–	–	–	–	–	–	<10	91	25	20	–	–	–	–	–
LIF-17F25-15	34.7 - 35.1	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F26	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F26-01	22.6 - 22.9	–	–	–	–	–	–	–	13	1,020	461	<20	–	–	–	–	–
LIF-17F26-02	DUP. OF ABOVE	–	–	–	–	–	–	–	23	743	348	22	–	–	–	–	–
LIF-17F26-03	23.5 - 23.6	–	–	–	–	–	–	–	40	1,360	565	<20	–	–	–	–	–
LIF-17F26-04	24.1 - 24.2	–	–	–	–	–	–	–	80	2,420	957	<20	–	–	–	–	–
LIF-17F26-05	25.0 - 25.1	0.008	<0.01	<0.05	<0.05	71	1,980	151	72	1,500	465	40	<0.005	<0.005	0.41	0.55	<0.6
LIF-17F26-06	25.8 - 25.9	–	–	–	–	–	–	–	66	3,260	1,140	<20	–	–	–	–	–
LIF-17F26-07	26.5 - 26.7	–	–	–	–	–	–	–	<10	2,980	602	<20	–	–	–	–	–
LIF-17F26-09	27.7 - 27.9	–	–	–	–	–	–	–	<10	28	<20	<20	–	–	–	–	–
LIF-17F26-10	28.8 - 29.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F26-12	30.5 - 30.6	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F26-13	32.8 - 32.9	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F26-14	34.3 - 34.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F26-15	35.7 - 35.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

BH75	Sample Depth	B	E	T	X	VPH	LEPH	HEPH
BH75-1	1.5 - 1.5	–	–	–	–	–	7,700	1,700
GR17	DUP. OF ABOVE	–	–	–	–	–	8,100	1,700
BH75-2	3.0 - 3.0	–	–	–	–	–	4,800	1,200
BH75-3	4.5 - 4.5	–	–	–	–	–	21,000	3,100
BH75-5	6.0 - 6.0	<0.04	<0.5	<0.5	<0.5	160	2,000	260
BH75-7	9.0 - 9.0	–	–	–	–	–	7,700	1,800
BH75-8	12.0 - 12.0	–	–	–	–	–	2,300	530
BH75-9	13.5 - 13.5	–	–	–	–	–	2,300	<250
BH75-10	16.5 - 16.5	–	–	–	–	–	1,900	<250
BH75-11	19.5 - 19.5	–	–	–	–	–	<250	<250
GR18	DUP. OF ABOVE	–	–	–	–	–	<250	<250
BH75-12	21.0 - 21.0	–	–	–	–	–	<250	<250



SEE DRAWING 903B FOR CONTINUATION

BH11	Sample Depth	LEPH	HEPH	F2	F3	NAP	PHE
BH11-01	1.2 - 1.2	<200	<200	<30	<50	<0.05	<0.05
BHQAQC-01	DUP. OF ABOVE	<200	<200	<30	<50	<0.05	<0.05
BH11-07	10.4 - 10.4	<200	<200	34	<50	0.21	<0.05

BH12-02	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH12-02-26-AD05	18.8 - 19.1	–	–	–	–	–	34	27	<0.01	<0.01	<0.02	<0.02
BH12-02-27-AD05	19.5 - 19.8	<0.02	<0.05	<0.05	<0.1	36	1,700	189	<0.01	<0.01	<0.02	<0.02
BH12-02-28-AD05	DUP. OF ABOVE	<0.02	<0.05	<0.05	<0.1	36	1,740	186	<0.01	<0.01	<0.02	<0.02
BH12-02-30-AD05	26.4 - 26.7	<0.02	<0.05	<0.05	<0.1	34	74	213	<0.01	<0.01	<0.02	0.02
BH12-02-31-AD05	DUP. OF ABOVE	<0.02	<0.05	<0.05	<0.1	<10	106	125	<0.01	<0.01	<0.02	<0.02
BH12-02-32-AD05	27.9 - 28.2	<0.02	<0.05	<0.05	<0.1	<10	<20	<20	<0.01	<0.01	<0.02	<0.02

BH62	Sample Depth	B	E	T	X	VPH	LEPH	HEPH
BH62-1	9.0 - 9.0	<0.04	<0.5	<0.5	4.4	240	3,400	580
GR11	DUP. OF ABOVE	<0.04	<0.5	<0.5	11	330	4,000	830
BH62-2	10.5 - 10.5	<0.04	<0.5	<0.5	8.6	470	6,000	1,200
BH62-3	13.5 - 13.5	<0.04	<0.5	<0.5	<0.5	<100	7,400	1,400
BH62-4	16.5 - 16.5	<0.04	<0.5	<0.5	<0.5	<100	<250	<250

LIF-17F3	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F3-01	13.1 - 13.4	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH63	Sample Depth	LEPH	HEPH
BH63-4	9.0 - 9.0	3,300	310
BH63-5	12.0 - 12.0	2,700	<250
BH63-6	15.0 - 15.0	260	<250

BH07	Sample Depth	LEPH	HEPH	F2	F3	NAP	PHE
BH07-06	8.8 - 8.8	2,760	416	1,800	1,230	<0.5	0.5

BH17-55	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-55-01	0.4 - 0.6	<0.005	<0.01	<0.05	<0.05	<10	<20	28	<10	<20	<20	45	0.012	<0.005	<0.02	<0.02	<0.6
BH17-55-04	2.4 - 2.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	35	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-55-07	5.0 - 5.2	0.006	<0.01	<0.05	0.05	<10	<20	<20	<10	<20	<20	63	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-55-11	7.5 - 7.6	0.010	<0.01	0.05	0.05	46	2,130	261	44	1,540	876	<20	<0.05	<0.05	<0.2	<0.2	<0.6

BH14-20	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-20-01-AD05	1.8 - 1.8	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-20-06-AD05	6.9 - 6.9	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-20-21-AD05	22.0 - 22.0	<0.01	<0.02	<0.04	<0.08	43	1,320	105	<0.1	<0.16	0.41	0.58
BH14-20-23A-AD05	23.9 - 23.9	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-20-23-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

RES5	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	IACR
125-66.02-JLM-RES5-2	0.0 - 0.2	<0.005	<0.018	<0.02	<0.02	<100	<250	<250	<25	<80	<250	<0.01	<0.005	<0.01	<0.01	0.22
125-66.02-JLM-GR1	DUP. OF ABOVE	<0.005	<0.018	<0.02	<0.02	<100	<250	<250	<25	<80	<250	<0.01	<0.005	<0.01	<0.01	1.3

GARDEN1	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE
Garden 1	0.0 - 0.1	0.005	<0.018	<0.02	0.02	<100	<250	<250	<25	<80	<250	<0.01	<0.005	0.01	0.07
Garden 1A	0.0 - 0.1	<0.005	<0.018	<0.02	<0.02	<100	–	–	<10	<70	<100	<0.01	<0.005	<0.01	0.01
FSGR3	DUP. OF ABOVE	<0.005	<0.018	<0.02	<0.02	<100	–	–	<10	<70	<100	<0.01	<0.005	<0.01	0.01
Garden 1B	0.0 - 0.1	<0.005	<0.018	<0.02	<0.02	<100	–	–	<10	<70	160	<0.01	<0.005	<0.01	<0.01

BH14-24	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-24-01-AD05	0.8 - 0.8	<0.01	<0.02	<0.04	<0.08	<20	208	169	<0.1	<0.1	<0.1	<0.1
BH14-24-02-AD05	1.1 - 1.1	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-24-03-AD05	1.5 - 1.5	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-24-12-AD05	20.1 - 20.1	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-24-14-AD05	20.7 - 20.7	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-24-15-AD05	20.9 - 20.9	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-24-18-AD05	24.7 - 24.7	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

SS14-23	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE	IACR
SS14-23-01-AD05	0.0 - 0.5	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1	4.5
SS14-23-02-AD05	0.5 - 1.0	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1	<1.2
SS14-23-03-AD05	1.0 - 1.5	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1	<1.2

BH16-37	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-37-06	7.9 - 8.1	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	0.31
BH16-37-07	11.0 - 11.1	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	0.31
BH16-37-10	20.1 - 20.3	<0.0050	<0.010	<0.020	<0.040	<10	480	<100	10	460	170	<10	<0.010	0.055	0.062	0.28	0.31
BH16-37-11	DUP. OF ABOVE	<0.0050	<0.010	0.025	<0.040	12	290	<100	13	250	100	<10	<0.010	<0.0050	0.030	0.18	0.31
BH16-37-12	21.9 - 22.1	<0.0050	<0.010	0.022	<0.040	<10	<100	<100	<10	40	34	<10	<0.010	<0.0050	0.024	0.027	0.31
BH16-37-13	23.9 - 24.11	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	<10	<0.010	0.011	0.056	<0.010	0.31

LIF-17F10	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F10-01	22.8 - 23.1	<0.005	<0.01	<0.05	<0.05	100	2,690	137	105	2,190	615	<20	<0.005	<0.005	0.55	0.90	<0.6

LIF-17F15	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F15-01	22.8 - 23.1	<0.005	<0.01	<0.05	<0.05	60	1,700	49	62	1,050	234	<20	<0.005	<0.005	<0.02	0.31	<0.6

BH133	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH133-2	0.9 - 1.1	<0.005	0.098	<0.05	<0.071	<100	<200	<200	0.051	<0.05	<0.05	<0.04
BH133-3	2.7 - 3.1	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	<0.013	<0.05	<0.05	<0.04

BH13-07	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	NAP	ACE	FLR	PHE
BH13-07-01-AD05	0.3 - 0.6	<0.01	2.1	<0.04	3.6	820	5,330	426	850	3.2	<0.96	0.56	0.33
BH13-07-02-AD05	1.3 - 1.6	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<10	<0.1	<0.1	<0.1	<0.1
BH13-07-21-AD05	17.6 - 17.9	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<10	<0.1	<0.1	<0.1	<0.1
BH13-07-22-AD05	18.7 - 19.0	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	–	<0.1	<0.1	<0.1	<0.1

BH70	Sample Depth	LEPH	HEPH
BH70-1	3.0 - 3.0	1,200	<250
GR15	DUP. OF ABOVE	1,100	<250
BH70-2	4.5 - 4.5	<250	<250

MSV1	Sample Depth	B	E	T	X	VPH	F1	F2	F3	NAP	ACE	FLR	PHE
MSV1-1	–	<0.005	0.026	<0.02	1.7	250	250	2,100	3,000	0.36	0.089	0.12	0.12
MSV1-3	–	<0.005	1.4	0.06	10	540	540	4,900	3,300	6.3	0.73	1.4	2.3

BH120M	Sample Depth	B	E	T	X	VPH	F1	F2	F3	NAP	ACE	FLR	PHE
BH120M-1	0.0 - 0.6	<0.005	<0.018	<0.02	<0.02	<100	<10	560	1,200	0.03	0.01	0.02	0.03
BH120M-3	3.7 - 4.3	<0.005	<0.018	<0.02	<0.02	<100	<10	<70	<100	0.02	<0.005	0.01	0.03
FSGR	DUP. OF ABOVE	<0.005	<0.018	<0.02	<0.02	<100	<10	70	100	0.02	<0.005	0.01	0.02

BH24	Sample Depth	B	E	T	X	S	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE	IACR
BH24-1	0.5 - 0.5	<0.04	<0.5	<0.5	<0.5	<0.5	<100	1,600	300	1.3	<0.05	<0.05	<0.05	<0.59
BH24-2	2.4 - 2.4	<0.04	<0.5	<0.5	<0.5	<0.5	<100	280	<250	–	–	–	–	–
GR1	DUP. OF ABOVE	<0.04	<0.5	<0.5	<0.5	<0.5	<100	<250	<250	–	–	–	–	–

MR4	Sample Depth	LEPH	HEPH	NAP	ACE	FLR	PHE
MR-4	0.0 - 0.2	<250	860	<0.01	<0.005	<0.01	<0.01
GR2	DUP. OF ABOVE	<250	920	<0.01	<0.005	<0.01	<0.01

BH127	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE
BH127-1	0.5 - 0.8	<0.005	0.253	<0.05	6.05	590	7,100	670	590	4,650	2,090	<1.7	<0.3	0.531	0.569
BH127-2	1.1 - 1.4	0.0082	0.09	<0.05	0.675	<100	8,290	690	<10	4,260	1,590	8.63	<0.75	1.28	2.71
GR2	DUP. OF ABOVE	<0.005	0.098	<0.05	0.768	<100	7,640	520	15	3,170	1,250	8.98	<0.7	1.16	2.47
BH127-3	2.0 - 2.1	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	<10	<20	<20	<0.017	<0.05	<0.05	<0.04
BH127-6	4.9 - 5.2	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	<10	<20	<20	<0.013	<0.05	<0.05	<0.04

SS4	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	FLR	PHE
SS4	0.0 - 0.1	<0.01	<0.01	<0.01	<0.01	<100	1,900	29,000	0.7	<0.5	<0.5

BH136	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH136-1	0.3 - 0.5	<0.005	<0.015	<0.05	<0.071	<100	<200	1,610	<0.013	<0.05	<0.05	<0.04

BH132	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE
BH132-2	0.9 - 1.2	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	<10	<20	<20	<0.013	<0.05	<0.05	<0.04
BH132-3	1.2 - 1.5	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	<10	<20	<20	0.015	<0.05	0.075	0.322
GR3	DUP. OF ABOVE	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	<10	<20	<20	<0.015	<0.05	<0.05	<0.04
BH132-5	2.7 - 3.1	<0.005	<0.015	<0.05	<0.071	<100	<200	<200	–	–	–	0.06	<0.05	<0.05	<0.04

LIF-17F20	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F20-01	27.1 - 27.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

FIRE14SS5	Sample Depth	NAP	ACE	FLR	PHE
FIRE14SS5	0.0 - 0.5	0.057	<0.1	<0.1	0.053

LIF-17F55	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F55-01	19.2 - 19.5	<0.005	<0.01	<0.05	<0.05	63	3,290	195	75	2,480	858	<20	<0.05	<0.05	<0.2	<0.2	<0.6
LIF-17F55-02	20.2 - 20.6	–	–	–	–	–	–	–	75	1,510	531	<20	–	–	–	–	–
LIF-17F55-03	21.0 - 21.3	<0.005	<0.01	<0.05	<0.05	<10	613	59	<10	488	266	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F55-04	21.8 - 22.1	–	–	–	–	–	–	–	<10	490	204	<20	–	–	–	–	–
LIF-17F55-05	22.3 - 22.6	–	–	–	–	–	–	–	56	2,100	514	<20	–	–	–	–	–
LIF-17F55-06	23.5 - 23.8	–	–	–	–	–	–	–	65	2,920	368	<20	–	–	–	–	–
LIF-17F55-07	24.1 - 24.4	<0.005	<0.01	<0.05	<0.05	122	5,010	66	136	3,680	473	<20	<0.05	<0.05	<0.2	0.4	<0.6
LIF-17F55-08	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	127	5,420	71	139	4,690	613	<20	<0.05	<0.05	<0.2	0.2	<0.6
LIF-17F55-09	24.8 - 25.1	–	–	–	–	–	–	–	168	9,070	995	<20	–	–	–	–	–
LIF-17F55-10	25.6 - 25.9	<0.005	<0.01	<0.05	<0.05	<10	2,890	124	<10	2,690	645	<20	<0.05	<0.05	<0.2	0.5	<0.6
LIF-17F55-11	26.4 - 26.7	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F55-12	27.0 - 27.3	–	–	–	–	–	–	–	<10	809	100	<20	–	–	–	–	–
LIF-17F55-13	27.7 - 28.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F55-15	29.4 - 29.7	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

BH30	Sample Depth	B	E	T	X	VPH	LEPH	HEPH
BH30-2	1.5 - 1.5	<0.04	<0.5	<0.5	<0.5	310	6,900	280
BH30-3	3.1 - 3.1	–	–	–	–	–	<250	<250

BH14-22	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-22-01-AD05	1.2 - 1.2	0.022	0.013	0.097	0.076	<20	<200	234	0.076	<0.1	<0.1	<0.1
BH14-22-19A-AD05	26.8 - 26.8	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-22-19-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-22-30-AD05	29.1 - 29.1	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

BH16-05	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	IACR
BH16-05-1	0.2 - 0.5	0.032	0.082	0.15	0.56	220	1,710	232	230	1,400	730	0.53	0.036	0.16	0.11	0.31
BH16-05-3	1.5 - 2.0	0.0075	<0.010	0.029	0.045	<10	425	<100	<10	350	190	0.18	0.0079	0.059	0.050	0.31
BH16-05-4	4.1 - 4.6	0.0078	0.011	0.032	0.050	<10	422	149	<10	330	300	0.19	<0.0082	0.060	0.051	0.31
BH16-05-7	15.8 - 16.2	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	0.31

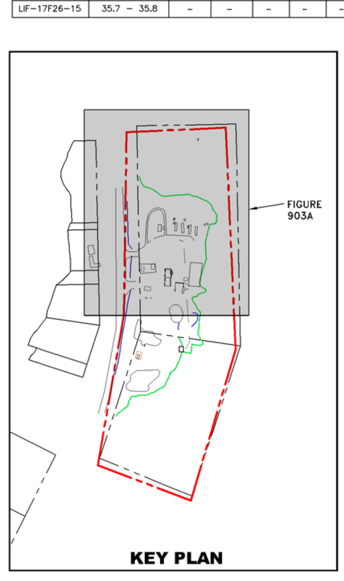
BH74	Sample Depth	LEPH	HEPH
BH74-1	1.5 - 1.5	1,600	390
BH74-2	3.0 - 3.0	<250	<250

BH37	Sample Depth	LEPH	HEPH
BH37-1	0.6 - 0.6	12,000	2,200

BH35	Sample Depth	LEPH	HEPH
BH35-1	1.5 - 1.5	2,000	480
BH35-2	3.1 - 3.1	<250	<250

BH13-05	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH13-05-02-AD05	1.1 - 1.4	<0.01	<0.02	<0.04	0.28	380	4,790	<200	3.2	<3.4	1	0.45
BH13-05-A	DUP. OF ABOVE	<0.01	<0.02	<0.04	0.3	460	5,400	<200	3.7	<3.6	1.3	0.49
BH13-05-14-AD05	11.6 - 11.9	<0.01	<0.02	<0.04	<0.08	<20	1,690	431	<0.1	<0.1	<0.1	<0.1
BH13-05-27-AD05	21.9 - 22.2	<0.01	<0.134	<0.04	<0.184	500	11,700	374	<0.28	<3.8	1.2	4.6
BH13-05-28-AD05	22.6 - 22.9	<0.01	<0.116	<0.04	<0.18	290	8,530	465	<0.22	<3.2	1.2	1.6
BH13-05-29-AD05	23.0 - 23.3	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH13-05-30-AD05	23.7 - 24.0	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH13-05-31-AD05	24.9 - 25.2	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

BH76	Sample Depth	B	E	T	X	VPH	LEPH	HEPH
BH76-1	1.5 - 1.5	–	–	–	–	–	3,600	<250
BH76-2	3.0 - 3.0	–	–	–	–	–	1,400	<250
BH76-3	4.5 - 4.5	–	–	–	–	–	280	<250
BH76-4	7.5 - 7.5	–	–	–	–	–	<250	<250
BH76-5	10.5 - 10.5	–	–	–	–	–	<250	<250
BH76-6	12.0 - 12.0	<0.04	<0.5	<0.5	<0.5	<100	<250	<250



KEY PLAN

FEDERAL GUIDELINES

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
CCME CEQG RL SURFACE GUIDELINES (<1.5m) (μg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	300	2,800	0.013	0.28	0.25	0.046	1
CCME CEQG RL SUBSOIL GUIDELINES (>1.5m) (μg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	2,500	10,000	0.013	0.28	0.25	0.046	1

CCME CEQG Residential Coarse-Grained

BC STANDARDS

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
CSR RLLD STANDARDS (<3m) (μg/g)	0.035	15	0.5	6.5	200	1,000	1,000	N/A	N/A	N/A	N/A	0.6	950	600	5	N/A
CSR IL STANDARDS (>3m) (μg/g)	0.035	15	0.5	6.5	200	2,000	5,000	N/A	N/A	N/A	N/A	20	15,000	9,500	100	N/A

CSR Residential (RI)/Commercial (CI) Land Use

LEGEND

0 10 20 30 METRES

- SUBJECT PROPERTY LIMITS
- LOT BOUNDARY
- FIBER OPTIC LINE
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- REMEDIAL EXCAVATION BOUNDARY (SNC, 2016)
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT
- SURFICIAL SOIL SAMPLE LOCATION
- FORMER SITE CONFIGURATION
- SITE FEATURE
- GARDEN
- <0.5 CONCENTRATION BELOW DETECTION LIMIT (DL) BUT DL IS GREATER THAN GUIDELINE/STANDARD

LOCATION — ANALYTICAL SOIL RESULTS

BH14-15	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP
BH14-15-02-AD05	0.9 - 0.9	<0.01	<0.02	<0.04	<0.08	160	8,140	943	0.87

SAMPLE ID
DEPTH OF SAMPLE (m)

- CONCENTRATION LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (μg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL SURFACE OR SUBSOIL GUIDELINES (μg/g)

B	BENZENE
E	ETHYLBENZENE
T	TOLUENE
X	XYLENES
VPH(C6-C10)	VOLATILE PETROLEUM HYDROCARBONS (C6-C10)
LEPH(C10-C19)	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS (C10-C19)
HEPH	HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS
F1	HYDROCARBON FRACTION F1 (F1-BETX)
F2	HYDROCARBON FRACTION F2 (>C10-C16)
F3	HYDROCARBON FRACTION F3 (>C16-C34)
F4	HYDROCARBON FRACTION F4 (>C34-C50)
NAP	NAPHTHALENE
ACE	ACENAPHTHENE
FLR	FLUORENE
PHE	PHENANTHRENE
IACR	INDEX OF ADDITIVE CANCER RISK

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. OTHER HYDROCARBON CONSTITUENTS WERE ANALYZED FOR SAMPLES COLLECTED FROM VARIOUS LOCATIONS AND WERE LESS THAN THE APPLICABLE STANDARDS/GUIDELINES. ONLY THE CONFIRMED CONTAMINANTS OF CONCERN ARE SHOWN ON THE DRAWING.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2018-03-29	ISSUED TO CLIENT	PES	CS
1	2017-09-07	ISSUED TO CLIENT AS DRAFT	PES	CS
0	2017-07-27	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - HYDROCARBONS (NORTH)**

DWN BY: PES | SCALE: 1:600 | DATE: 2017-07-18 | DWG No: 636200-903A | REV.: 2

CHK'D: CS | PLOT: 20180315.1743 | CADFILE: 636200R16

SEE DRAWING 903A FOR CONTINUATION

LIF-17F31	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F31-01	25.3 – 25.8	–	–	–	–	–	–	–	48	1,500	603	<20	–	–	–	–	–
LIF-17F31-02	25.3 – 25.8	–	–	–	–	–	–	–	38	1,290	564	28	–	–	–	–	–
LIF-17F31-03	26.5 – 26.8	–	–	–	–	–	–	–	20	1,580	659	<20	–	–	–	–	–
LIF-17F31-04	27.1 – 27.4	–	–	–	–	–	–	–	11	1,440	648	30	–	–	–	–	–
LIF-17F31-05	28.0 – 28.3	–	–	–	–	–	–	–	<10	1,230	495	22	–	–	–	–	–
LIF-17F31-06	28.7 – 29.0	–	–	–	–	–	–	–	<10	247	123	26	–	–	–	–	–
LIF-17F31-07	29.4 – 29.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	22	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F31-08	30.8 – 31.1	–	–	–	–	–	–	–	<10	603	236	27	–	–	–	–	–

BH14-10	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-10-02-AD05	1.4 – 1.4	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-10-25-AD05	16.6 – 16.6	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-10-35-AD05	20.6 – 20.6	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-10-42-AD05	31.9 – 31.9	<0.01	<0.02	<0.04	<0.08	<20	580	<200	<0.1	0.05	0.1	0.19
BH14-10-44-AD05	33.1 – 33.1	<0.01	<0.02	<0.04	<0.08	46	877	<200	<0.1	0.086	0.2	0.35

LIF-17F30	Sample Depth	F1	F2	F3	F4
LIF-17F30-01	32.6 – 32.9	<10	<20	24	<20
LIF-17F30-02	34.1 – 34.4	<10	<20	<20	<20
LIF-17F30-03	35.8 – 36.0	<10	<20	29	<20
LIF-17F30-04	37.4 – 37.5	<10	<20	30	<20

BH13-06	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH13-06-01-AD05	0.3 – 0.6	<0.01	0.01	<0.04	<0.08	<20	308	1,440	0.066	<0.1	0.063	0.075
BH13-06-02-AD05	1.0 – 1.3	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH13-06-31-AD05	31.7 – 32.0	<0.01	0.016	<0.04	<0.08	81	1,860	150	<0.1	<0.3	0.32	0.73
BH13-06-B	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	120	2,530	208	<0.1	<0.54	0.41	0.93
BH13-06-32-AD05	32.3 – 32.6	<0.01	<0.02	<0.04	<0.08	120	2,540	182	<0.16	<0.56	0.68	1.1
BH13-06-33-AD05	33.1 – 33.4	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH13-06-34-AD05	33.9 – 34.2	<0.01	<0.02	<0.04	<0.08	21	116	<200	<0.1	<0.1	<0.1	0.091
BH13-06-35-AD05	34.6 – 34.9	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

BH17-45	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-45-01	31.1 – 31.4	<0.005	0.03	<0.05	0.32	–	–	–	<10	268	252	<20	–	–	–	–	–
BH17-45-02	32.0 – 32.3	<0.005	0.01	<0.05	<0.05	19	924	132	18	734	373	70	<0.05	<0.05	<0.2	0.5	<0.6
BH17-45-03	34.7 – 35.1	<0.005	<0.01	<0.05	<0.05	417	567	29	398	534	54	<20	<0.005	<0.005	0.48	0.64	<0.6
BH17-45-04	36.3 – 36.6	<0.005	<0.01	<0.05	<0.05	–	–	–	<10	21	25	<20	–	–	–	–	–
BH17-45-05	36.6 – 36.9	<0.02	0.09	0.07	0.8	–	–	–	–	–	–	–	–	–	–	–	–

LIF-17F36	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F36-01	30.2 – 30.3	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F36-02	31.1 – 31.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F36-03	DUP. OF ABOVE	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F36-05	32.8 – 32.9	–	–	–	–	–	–	–	36	560	256	24	–	–	–	–	–
LIF-17F36-06	33.8 – 34.0	–	–	–	–	–	–	–	60	895	362	27	–	–	–	–	–
LIF-17F36-07	34.2 – 34.4	<0.005	<0.01	<0.05	0.05	38	1,120	74	38	891	286	28	<0.005	<0.005	0.16	0.40	<0.6
LIF-17F36-08	35.7 – 36.0	<0.005	<0.01	<0.05	<0.05	543	302	<20	540	271	23	31	<0.005	<0.005	0.20	0.24	<0.6

BH16-38	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-38-01	1.1 – 1.2	<0.0050	0.023	0.025	0.093	<10	<100	530	<10	26	710	330	0.066	<0.0050	<0.020	0.012	0.31
BH16-38-04	7.5 – 7.6	0.0053	0.011	0.023	<0.040	<10	<100	<100	<10	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	0.31
BH16-38-10	32.6 – 32.8	<0.0050	<0.010	<0.020	<0.040	180	3,300	290	190	2,400	1,100	<20	0.017	0.059	0.25	0.89	0.31
BH16-38-11	DUP. OF ABOVE	0.0080	0.020	0.033	<0.040	210	2,800	230	230	2,500	1,100	110	0.15	0.061	0.25	0.91	0.31

BH17-40	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-40-01	26.5 – 26.8	<0.005	<0.01	<0.05	<0.05	24	3,370	427	26	2,710	1,790	29	<0.05	<0.05	<0.2	1.0	<0.6
BH17-40-02	29.0 – 29.1	<0.005	0.06	<0.05	0.54	<10	3,510	423	<10	2,650	1,670	44	<0.05	<0.05	<0.2	<0.2	<0.6

LIF-17F39	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F39-01	30.5 – 30.6	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F39-02	31.2 – 31.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F39-03	31.2 – 31.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F39-04	32.8 – 32.9	–	–	–	–	–	–	–	<10	426	345	<20	–	–	–	–	–
LIF-17F39-05	34.0 – 34.1	–	–	–	–	–	–	–	20	2,250	1,250	<20	–	–	–	–	–
LIF-17F39-06	34.3 – 34.4	0.006	<0.01	<0.05	<0.05	<10	738	81	<10	571	319	<20	<0.005	<0.005	0.02	0.11	<0.6
LIF-17F39-07	35.8 – 36.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F23	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F23-02	26.4 – 26.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F23-04	27.9 – 28.3	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-05	DUP. OF ABOVE	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-07	29.4 – 29.7	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-09	30.9 – 31.2	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-10	31.7 – 32.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-11	32.5 – 32.9	<0.005	<0.01	<0.05	<0.05	28	767	82	29	378	237	<20	<0.005	<0.005	<0.02	0.06	<0.6
LIF-17F23-12	33.2 – 33.5	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-13	34.0 – 34.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-14	34.7 – 35.1	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F23-15	35.5 – 35.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F40	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F40-01	31.1 – 31.4	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F40-02	32.7 – 32.9	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F40-03	34.3 – 34.4	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F40-04	35.8 – 36.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F40-05	37.0 – 37.2	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F40-06	37.3 – 37.5	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F49	Sample Depth	F1	F2	F3	F4
LIF-17F49-04	32.2 – 32.3	<10	<20	<20	<20
LIF-17F49-05	32.8 – 32.9	<10	<20	<20	<20
LIF-17F49-06	34.3 – 34.4	<10	<20	<20	<20
LIF-17F49-07	35.8 – 36.0	<10	<20	<20	<20
LIF-17F49-08	37.3 – 37.5	<10	<20	<20	<20

LIF-17F52	Sample Depth	F1	F2	F3	F4
LIF-17F52-01	25.5 – 25.8	<10	<20	<20	<20
LIF-17F52-02	26.5 – 26.8	<10	<20	<20	<20
LIF-17F52-03	27.1 – 27.4	<10	<20	<20	<20
LIF-17F52-04	27.9 – 28.3	<10	<20	<20	<20
LIF-17F52-05	DUP. OF ABOVE	<10	<20	<20	<20
LIF-17F52-06	28.7 – 29.0	<10	<20	<20	<20
LIF-17F52-07	29.4 – 29.7	<10	<20	<20	<20

BH05	Sample Depth	LEPH	HEPH	F2	F3	NAP	PHE
BH05-07	8.5 – 8.5	780	<200	582	320	<0.05	0.2

BH78	Sample Depth	LEPH	HEPH
BH78-6	9.0 – 9.0	4,200	710
BH78-7	10.5 – 10.5	650	<250
BH78-8	12.0 – 12.0	<250	<250
BH78-9	13.5 – 13.5	<250	<250

LIF-17F47	Sample Depth	F1	F2	F3	F4
LIF-17F47-02	31.1 – 31.4	<10	<20	<20	<20
LIF-17F47-03	DUP. OF ABOVE	<10	<20	<20	<20
LIF-17F47-04	32.0 – 32.2	<10	<20	<20	<20
LIF-17F47-05	32.8 – 32.9	<10	<20	<20	<20
LIF-17F47-06	34.3 – 34.4	<10	<20	<20	<20
LIF-17F47-07	35.8 – 36.0	<10	<20	<20	<20
LIF-17F47-08	37.3 – 37.5	<10	<20	<20	<20

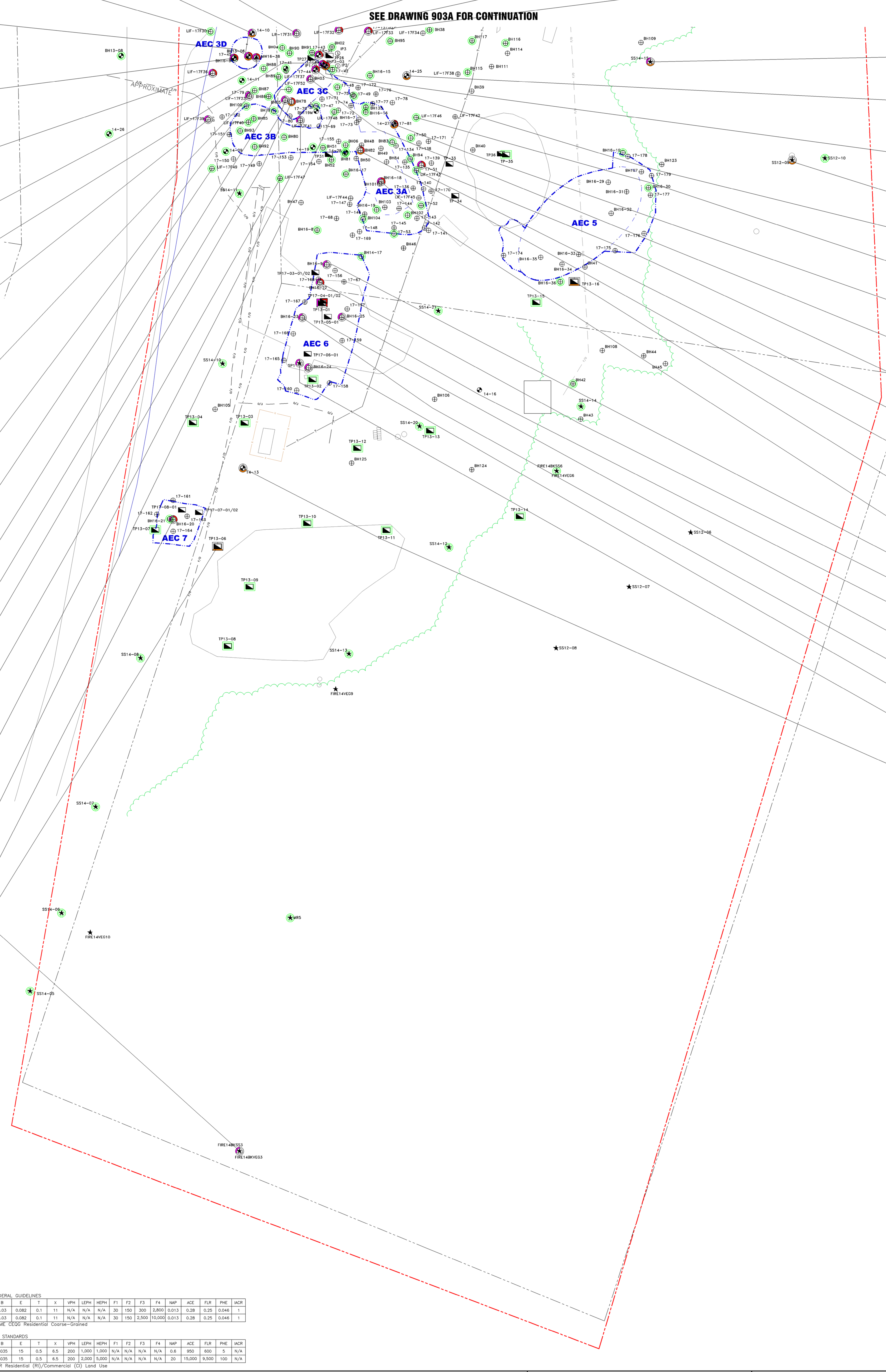
LIF-17F41	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F41-03	29.0 – 29.3	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F41-04	30.0 – 30.3	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F41-05	31.1 – 31.4	–	–	–	–	–	–	–	<10	112	76	<20	–	–	–	–	–
LIF-17F41-06	31.7 – 32.0	<0.005	<0.01	<0.05	<0.05	35	670	92	36	547	267	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F41-07	32.5 – 32.9	–	–	–	–	–	–	–	<10	1,220	628	<20	–	–	–	–	–
LIF-17F41-08	33.2 – 33.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F41-09	34.6 – 35.1	–	–	–	–	–	–	–	<10	<20	39	<20	–	–	–	–	–

LIF-17F48	Sample Depth	F1	F2	F3	F4
LIF-17F48-01	26.5 – 26.8	<10	<20	<20	<20
LIF-17F48-02	DUP. OF ABOVE	<10	<20	<20	<20
LIF-17F48-04	28.2 – 28.3	<10	<20	<20	<20
LIF-17F48-06	29.6 – 29.7	<10	<20	<20	<20
LIF-17F48-07	30.8 – 31.1	<10	<20	<20	<20
LIF-17F48-09	32.0 – 32.2	<10	<20	<20	<20
LIF-17F48-11	33.7 – 33.8	<10	<20	<20	<20
LIF-17F48-13	35.8 – 36.0	<10	<20	<20	<20

SS14-09	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
SS14-09-01-AD05	0.0 – 0.5	0.027	0.016	0.13	0.11	<20	<200	<200	0.1	<0.1	<0.1	0.074
SS14-09-02-AD05	0.5 – 1.0	0.029	0.016	0.15	0.12	<20	<200	<200	0.13	<0.1	<0.1	0.11
SS14-D3-01-AD05	DUP. OF ABOVE	0.011	<0.02	0.053	0.046	<20	<200	<200	0.067	<0.1	<0.1	<0.1
SS14-09-03-AD05	1.0 – 1.5	0.054	0.031	0.3	0.29	<20	<200	<200	0.11	<0.1	<0.1	0.074

TP13-06	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
TP13-06-1	0.3 – 0.8	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
TP13-06-2	1.0 – 1.5	<0.01	<0.02	<0.04	<0.08	10	896	<200	<0.1	<0.1	<0.1	<0.1

FIRE14BKSS3	Sample Depth	NAP	ACE	FLR	PHE	IACR
FIRE14BKSS3	0.0 – 0.5	0.051	<0.1	<0.1	<0.1	1.4



BH17-43	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-43-01	26.1 – 26.2	<0.005	<0.01	<0.05	<0.05	–	–	–	58	4,580	2,980	<20	–	–	–	–	–
BH17-43-02	29.1 – 29.3	<0.005	0.03	<0.05	0.27	41	3,640	396	38	2,860	1,720	<20	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-43-03	DUP. OF ABOVE	0.008	0.07	0.09	0.59	–	–	–	37	1,280	862	<20	–	–	–	–	–

LIF-17F32	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F32-01	23.9 – 24.2	–	–	–	–	–	–	–	104	2,000	1,410	<20	–	–	–	–	–
LIF-17F32-02	24.8 – 25.1	–	–	–	–	–	–	–	18	1,710	1,070	<20	–	–	–	–	–
LIF-17F32-03	25.6 – 25.9	<0.005	<0.01	<0.05	<0.05	52	4,040	428	34	2,880	1,420	<20	<0.05	<0.05	<0.2	1.3	<0.6
LIF-17F32-04	DUP. OF ABOVE	–	–	–	–	–	–	–	31	2,650	1,440	<20	–	–	–	–	–
LIF-17F32-05	26.5 – 26.8	–	–	–	–	–	–	–	28	4,930	1,200	<20	–	–	–	–	–
LIF-17F32-06	27.1 – 27.4	–	–	–	–	–	–	–	<10	40	29	<20	–	–	–	–	–
LIF-17F32-07	27.9 – 28.2	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F32-08	28.7 – 29.0	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F32-10	30.3 – 30.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F32-12	32.9 – 33.2	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F32-13	34.6 – 34.9	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

LIF-17F33	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F33-01	21.2 – 21.3	–	–	–	–	–	–	–	10	762	804	<20	–	–	–	–	–
LIF-17F33-02	22.1 – 22.3	–	–	–	–	–	–	–	<10	231	297	<20	–	–	–	–	–
LIF-17F33-03	22.3 – 22.4	–	–	–	–	–	–	–	<10	<20	26	<20	–	–	–	–	–
LIF-17F33-04	23.3 – 23.6	<0.005	0.01	<0.05	0.06	<10	88	<20	<10	49	67	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F33-05	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	<10	55	<20	<10	29	37	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F33-06	24.8 – 25.0	<0.005	<0.01	<0.05	<0.05	63	2,670	282	65	1,750	1,030	<20	<0.005	<0.005	<0.02	<0.02	<0.6
LIF-17F33-07	25.6 – 25.8	–	–	–	–	–	–	–	<10	283	212	<20	–	–	–	–	–
LIF-17F33-08	27.1 – 27.3	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F33-09	28.7 – 28.8	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–
LIF-17F33-10	29.7 – 29.9	–	–	–	–	–	–	–	<10	<20	<20	<20	–	–	–	–	–

SS14-15	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
SS14-15-01-AD05	0.0 – 0.5	0.03	<0.02	0.098	0.049	<20	190	407	0.074	<0.1	<0.1	0.056
SS14-15-02-AD05	0.5 – 1.0	<0.0154	<0.02	0.021	<0.08	<20	<200	134	<0.1	<0.1	<0.1	<0.1
SS14-15-03-AD05	1.0 – 1.5	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
SS14-D6-01-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

BH14-25	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-25-01-AD05	2.0 – 2.0	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-25-06-AD05	9.9 – 9.9	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-25-09A-AD05	12.8 – 12.8	<0.01	<0.02	<0.04	<0.08	<20	415	<200	<0.1	<0.1	<0.1	<0.1
BH14-25-09-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	16	561	<200	<0.1	<0.1	<0.1	<0.1

BH13-03	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	PHE
BH13-03-23-AD05	17.9 – 18.1	<0.005	<0.01	<0.05	<0.05	<10	<10	<10	<0.005	<0.02
BH13-03-25-AD05	19.5 – 19.8	<0.005	<0.01	<0.05	<0.05	<10	<10	<10	<0.005	<0.02
BH13-03-33-AD05	25.7 – 25.9	<0.005	<0.01	<0.05	<0.05	50	3,620	370	0.084	1.02
BH13-03-A-AD05	DUP. OF ABOVE	<0.005	<0.01	<0.05	<0.05	50	4,460	450	0.112	1.37
BH13-03-34-AD05	26.2 – 26.5	<0.005	<0.01	<0.05	<0.05	60	3,200	310	0.073	1.36
BH13-03-35-AD05	26.8 – 27.0	<0.005	<0.01	<0.05	<0.05	20	1,600	180	0.058	0.82
BH13-03-36-AD05	28.1 – 28.4	<0.005	<0.01	<0.05	<0.05	30	2,770	260	0.079	1.33

SS12-09	Sample Depth	LEPH	HEPH	NAP	ACE	FLR	PHE
SS12-09-AD05	0.2 – 0.5	48	481	<0.01	<0.01	<0.02	<0.02

BH17-44	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-44-01	27.1 – 27.3	0.013	0.01	0.06	<0.05	–	–	–	<10	579	564	<20	–	–	–	–	–
BH17-44-02	28.7 – 28.8	<0.005	<0.01	<0.05	<0.05	122	3,600	431	114	2,770	1,800	<20	<0.05	<0.05	0.3	1.7	<0.6
BH17-44-03	29.9 – 30.2	<0.005	<0.01	<0.05	<0.05	–	–	–	<10	1,230	744	<20	–	–	–	–	–
BH17-44-04	31.1 – 31.2	<0.005	<0.01	<0.05	<0.05	–	–	–	<10	884	418	<20	–	–	–	–	–

LIF-17F46	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F46-01	12.0 – 12.5	<0.005	<0.01	<0.05	<0.05	23	168	<20	21	135	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH14-27	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-27-01-AD05	1.5 – 1.5	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-27-06-AD05	7.8 – 7.8	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-27-10-AD05	12.7 – 12.7	<0.01	<0.02	<0.06	<0.08	540	1,830	<200	<0.1	<0.12	<0.1	<0.1
BH14-27-10A-AD05	DUP. OF ABOVE	<0.01	<0.072	<0.078	<0.08	1,600	3,200	<200	<0.1	<0.3	<0.1	<0.1
BH14-27-11-AD05	13.1 – 13.1	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

BH03	Sample Depth	LEPH	HEPH	F2	F3	NAP	PHE
BH03-08	10.1 – 10.1	267	<200	148	148	<0.06	0.08

BH17-51	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH17-51-01	0.4 – 0.6	<0.005	<0.01	<0.05	<0.05	<10	818	477	<10	250	493	37	<0.05	<0.05	<0.2	<0.2	<0.6
BH17-51-02	1.4 – 1.6	<0.005	<0.01	<0.05	<0.05	<10	229	132	<10	100	176	54	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-51-06	4.4 – 4.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6
BH17-51-09	7.5 – 7.6	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	0.017	<0.005	<0.02	<0.02	<0.6

LIF-17F43	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
LIF-17F43-01	10.1 – 10.7	<0.005	<0.01	<0.05	<0.05	<10	<20	<20	<10	<20	<20	<20	<0.005	<0.005	<0.02	<0.02	<0.6

BH82	Sample Depth	LEPH	HEPH
BH82-5	9.0 – 9.0	3,300	<250
BH82-6	13.5 – 13.5	<250	<250
BH82-7	15.0 – 15.0	<250	<250

TP13-16	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
TP13-16-1	0.2 – 0.5	<0.01	<0.02	<0.04	<0.08	<20	210	790	<0.4	<0.4	<0.4	<0.4
TP13-16-2	1.0 – 1.3	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1

BH16-18	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-18-03	7.9 – 8.1	<0.0050	<0.010	0.025	<0.040	<10	220	<100	<10	180	26	<10	<0.010	0.0057	<0.020	0.024	0.31
BH16-18-04	DUP. OF ABOVE	<0.0050	<0.010	0.021	<0.040	<10	210	<100	<10	170	24	<10	<0.010	<0.0050	<0.020	0.024	0.31
BH16-18-05	10.1 – 10.2	<0.0050	<0.010	0.024	0.048	150	2,700	160	170	2,700	400	72	<0.010	0.080	<0.020	<0.010	0.31
BH16-18-06	14.0 – 14.2	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	<10	<0.010	<0.0050	<0.020	<0.010	0.31

BH16-09	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	NAP	ACE	FLR	PHE	IACR
BH16-09-1	1.5 – 1.8	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	<10	0.045	<0.0050	<0.020	<0.010	0.31

BH16-22	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-22-01	1.2 – 1.4	<0.0050	<0.010	<0.020	<0.040	<10	1,600	4,300	<10	270	3,200	1,100	<0.010	0.0058	<0.020	<0.010	0.84

BH16-25	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-25-01	1.1 – 1.2	<0.0050	<0.010	<0.020	<0.040	<10	850	410	<10	570	1,100	80	<0.010	0.038	<0.020	0.023	2.4

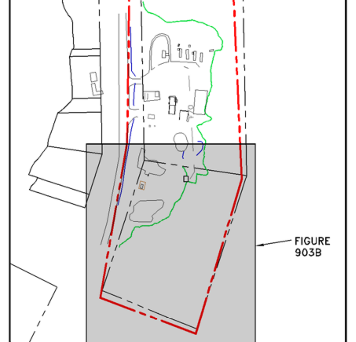
TP13-01	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE	IACR
TP13-01-1	0.7 – 1.0	<0.01	<0.02	<0.04	<0.08	<20	2,350	1,440	<0.1	<0.22	<0.6	0.85	1.2
TP13-01-2	1.7 – 2.0	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1	<1.2

BH16-23	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-23-01	0.9 – 1.1	<0.0050	<0.010	<0.020	<0.040	<10	<100	<100	<10	<10	55	27	<0.010	<0.0050	<0.020	0.024	7.5

BH16-24	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
BH16-24-01	0.6 – 0.8	<0.0050	<0.010	0.028	<0.040	<10	300	250	12	120	410	<10	<0.010	0.0062	<0.020	0.016	0.31

SP1	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	F2	F3	NAP	ACE	FLR	PHE
SP1	0.0 – 0.1	0.005	<0.018	<0.02	0.04	<100	450	530	95	550	<0.05	<0.05	<0.05	<0.05
GR58	DUP. OF ABOVE	<0.005	<0.018	0.02	0.04	<100	380	480	84	540	<0.05	<0.05	<0.05	<0.05

BH14-13	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP	ACE	FLR	PHE
BH14-13-01-AD05	1.1 – 1.1	<0.01	<0.02	<0.04	<0.08	<20	253	274	<0.1	<0.1	<0.1	<0.1
BH14-13-16-AD05	3.4 – 3.4	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-13-17-AD05	11.6 – 11.6	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-13-25-AD05	18.1 – 18.1	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-13-25A-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-13-30-AD05	22.1 – 22.1	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1
BH14-13-30A-AD05	DUP. OF ABOVE	<0.01	<0.02	<0.04	<0.08	<20	<200	<200	<0.1	<0.1	<0.1	<0.1



KEY PLAN

FEDERAL GUIDELINES

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
CCME CEQG RL SURFACE GUIDELINES (<1.5m) (µg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	300	2,800	0.013	0.28	0.25	0.046	1
CCME CEQG RL SUBSOIL GUIDELINES (>1.5m) (µg/g)	0.03	0.082	0.1	11	N/A	N/A	N/A	30	150	2,500	10,000	0.013	0.28	0.25	0.046	1

CCME CEQG Residential Coarse–Grained

BC STANDARDS

	B	E	T	X	VPH	LEPH	HEPH	F1	F2	F3	F4	NAP	ACE	FLR	PHE	IACR
CSR RLLD STANDARDS (<3m) (µg/g)	0.035	15	0.5	6.5	200	1,000	1,000	N/A	N/A	N/A	N/A	0.6	950	600	5	N/A
CSR IL STANDARDS (>3m) (µg/g)	0.035	15	0.5	6.5	200	2,000	5,000	N/A	N/A	N/A	N/A	20	15,000	9,500	100	N/A

CSR Residential (RI)/Commercial (CI) Land Use

LEGEND

0 10 20 30 METRES

- SUBJECT PROPERTY LIMITS
- LOT BOUNDARY
- FIBER OPTIC LINE
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- REMEDIAL EXCAVATION BOUNDARY (SNC, 2016)
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT
- SURFICIAL SOIL SAMPLE LOCATION
- FORMER SITE CONFIGURATION
- SITE FEATURE
- GARDEN
- <0.5 CONCENTRATION BELOW DETECTION LIMIT (DL) BUT DL IS GREATER THAN GUIDELINE/STANDARD

LOCATION — ANALYTICAL SOIL RESULTS

BH14-15	Sample Depth	B	E	T	X	VPH	LEPH	HEPH	NAP
BH14-15-02-AD05	0.9 – 0.9	<0.01	<0.02	<0.04	<0.08	160	8,140	943	0.87

SAMPLE ID — DEPTH OF SAMPLE (m)

- CONCENTRATION LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- VPH, LEPH OR HEPH CONCENTRATION GREATER THAN CCME CEQG RL F1, F2 OR F3 GUIDELINES (POTENTIAL CCME EXCEEDANCE), ONLY APPLIED WHERE NO F1, F2 OR F3 CONCENTRATION IS AVAILABLE
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (µg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL SURFACE OR SUBSOIL GUIDELINES (µg/g)

B	BENZENE
E	ETHYLBENZENE
T	TOLUENE
X	XYLENES
VPH(C6–C10)	VOLATILE PETROLEUM HYDROCARBONS (C6–C10)
LEPH(C10–C19)	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS (C10–C19)
HEPH	HEAVY EXTRACTABLE PETROLEUM HYDROCARBONS
F1	HYDROCARBON FRACTION F1 (F1–BETX)
F2	HYDROCARBON FRACTION F2 (>C10–C16)
F3	HYDROCARBON FRACTION F3 (>C16–C34)
F4	HYDROCARBON FRACTION F4 (>C34–C50)
NAP	NAPHTHALENE
ACE	ACENAPHTHENE
FLR	FLUORENE
PHE	PHENANTHRENE
IACR	INDEX OF ADDITIVE CANCER RISK

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. OTHER HYDROCARBON CONSTITUENTS WERE ANALYZED FOR SAMPLES COLLECTED FROM VARIOUS LOCATIONS AND WERE LESS THAN THE APPLICABLE STANDARDS/GUIDELINES. ONLY THE CONFIRMED CONTAMINANTS OF CONCERN ARE SHOWN ON THE DRAWING.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2018–03–29	ISSUED TO CLIENT	PES	CS
1	2017–09–07	ISSUED TO CLIENT AS DRAFT	PES	CS
0	2017–07–27	ISSUED TO CLIENT AS DRAFT	PES	CS

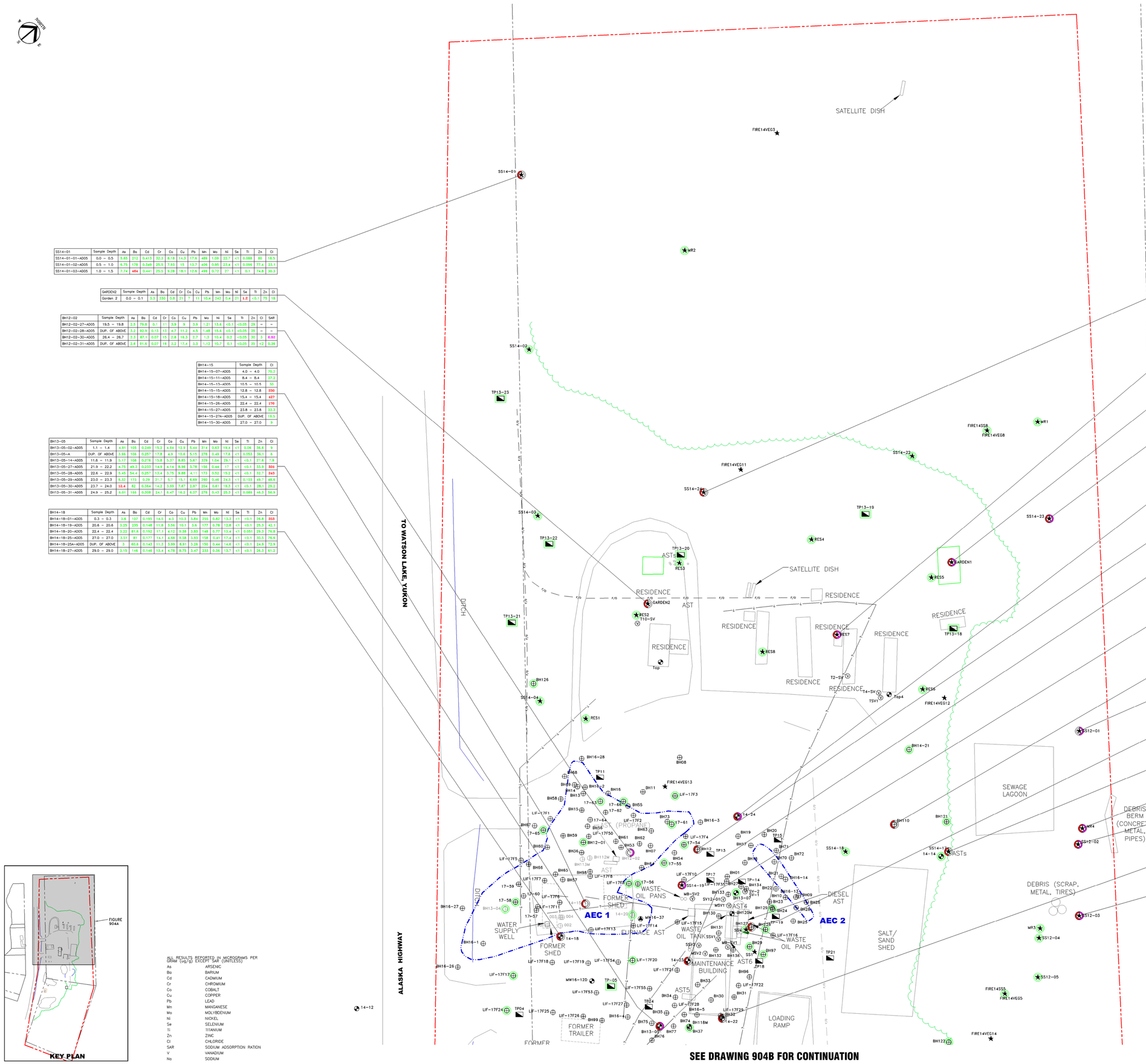
SNC · LAVALIN

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - HYDROCARBONS (SOUTH)**

DWN BY: PES	SCALE: 1:600	DATE: 2017–07–18	DWG No: REV.: 2
CHK'D: CS	PLOT: 20180315.1744	CADFILE: 636200R16	636200-903B



SS14-01	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-01-01-AD05	0.0 – 0.5	5.85	212	0.413	32.3	8.18	14.3	17.6	489	1.09	22.7	<1	0.088	80	18.5
SS14-01-02-AD05	0.5 – 1.0	6.75	178	0.349	25.5	7.93	15	13.7	456	0.95	23.4	<1	0.095	77.4	23.1
SS14-01-03-AD05	1.0 – 1.5	7.74	464	0.441	25.5	9.28	18.1	12.6	435	0.72	27	<1	0.1	74.8	30.3

GARDEN2	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
Garden 2	0.0 – 0.1	3.3	250	0.8	21	7	11	10.4	242	0.4	21	1.2	<0.1	75	18

BH12-02	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn	Cl	SAR
BH12-02-27-AD05	19.5 – 19.8	2.5	79.8	0.1	11	3.9	9	3.9	1.21	13.4	<0.1	<0.05	29	–	–
BH12-02-28-AD05	DUP. OF ABOVE	3.2	92.9	0.13	13	4.7	11.2	4.5	1.48	15.4	<0.1	<0.05	35	–	–
BH12-02-30-AD05	26.4 – 26.7	2.3	87.1	0.07	15	2.8	16.3	2.7	1.3	10.4	0.2	<0.05	30	3	0.82
BH12-02-31-AD05	DUP. OF ABOVE	2.8	91.6	0.07	16	3.2	17.4	3.3	1.12	10.7	0.1	<0.05	35	<2	0.36

BH14-15	Sample Depth	Cl
BH14-15-07-AD05	4.0 – 4.0	70.2
BH14-15-11-AD05	8.4 – 8.4	37.2
BH14-15-13-AD05	10.5 – 10.5	30
BH14-15-15-AD05	12.8 – 12.8	230
BH14-15-18-AD05	15.4 – 15.4	427
BH14-15-26-AD05	22.4 – 22.4	170
BH14-15-27-AD05	23.8 – 23.8	33.3
BH14-15-27A-AD05	DUP. OF ABOVE	19.5
BH14-15-30-AD05	27.0 – 27.0	9

BH13-05	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH13-05-02-AD05	1.1 – 1.4	4.91	105	0.249	15.2	4.94	12.9	5.44	314	0.63	19.4	<1	0.06	36.6	9
BH13-05-A	DUP. OF ABOVE	5.96	106	0.257	17.8	4.9	10.6	5.15	278	0.49	17.6	<1	0.053	36.1	6
BH13-05-14-AD05	11.6 – 11.9	5.17	108	0.276	15.8	5.37	8.85	5.67	329	1.04	29.1	<1	<0.1	27.6	7.9
BH13-05-27-AD05	21.9 – 22.2	4.75	49.3	0.233	14.9	4.14	8.96	3.78	156	0.44	17	<1	<0.1	33.9	331
BH13-05-28-AD05	22.6 – 22.9	5.45	54.4	0.257	13.4	3.75	9.88	4.11	173	0.52	15.2	<1	<0.1	32.7	343
BH13-05-29-AD05	23.0 – 23.3	6.32	173	0.29	21.7	5.7	15.1	6.69	260	0.46	24.3	<1	0.103	49.7	46.6
BH13-05-30-AD05	23.7 – 24.0	10.4	82	0.364	14.2	3.99	7.47	2.97	204	0.61	19.3	<1	<0.1	28.1	29.2
BH13-05-31-AD05	24.9 – 25.2	6.01	166	0.308	24.1	6.47	16.2	6.37	278	0.43	25.3	<1	0.089	46.3	56.9

BH14-18	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-18-01-AD05	0.3 – 0.3	3.6	107	0.195	14.5	4.3	10.3	3.84	255	0.82	13.3	<1	<0.1	76.8	258
BH14-18-19-AD05	20.6 – 20.6	3.25	235	0.148	11.8	3.56	10.1	3.6	177	0.78	12.8	<1	<0.1	25.3	42.1
BH14-18-20-AD05	22.4 – 22.4	3.22	81.6	0.192	17.1	4.12	9.38	3.83	148	0.77	13.4	<1	0.051	29.3	76.3
BH14-18-25-AD05	27.0 – 27.0	3.51	81	0.177	14.1	4.68	9.58	3.93	158	0.41	17.4	<1	<0.1	30.5	76.6
BH14-18-25A-AD05	DUP. OF ABOVE	3	60.6	0.143	11.3	3.99	8.91	3.26	150	0.44	14.6	<1	<0.1	24.9	72.9
BH14-18-27-AD05	29.0 – 29.0	3.15	146	0.148	13.4	4.78	8.75	3.47	233	0.34	13.7	<1	<0.1	26.3	61.2

SS14-24	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-24-01-AD05	0.0 – 0.5	8.55	197	0.333	32.2	9.44	22.7	11.4	405	1	32.1	<1	0.1	66.9	115
SS14-24-02-AD05	0.5 – 1.0	5.43	120	0.291	21.4	8.69	12.9	6.38	285	0.81	22.6	<1	0.073	51.3	85
SS14-24-03-AD05	1.0 – 1.5	4.56	111	0.298	18	5.5	10.4	5.16	254	0.68	21	<1	0.06	47.8	55.9

RES7	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
RES7-1	0.0 – 0.1	–	–	–	–	–	–	–	–	–	–	–	–	–	<5
GR56b	DUP. OF ABOVE	–	–	–	–	–	–	–	–	–	–	–	–	–	11
125-66.02-JLM-RES7-2	0.0 – 0.2	4	127	0.2	17	5	12	665	247	0.6	18	0.3	<0.1	46	–

GARDEN1	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
Garden 1	0.0 – 0.1	7.9	813	2	14	5	25	11.7	203	5	40	3.5	0.2	141	20
Garden 1A	0.0 – 0.1	<10	869	2	16	6	30	13	–	7	47	<2	–	155	–
FSGR3	DUP. OF ABOVE	<10	805	2	16	6	30	14	–	7	48	<2	–	151	–
Garden 1B	0.0 – 0.1	<10	985	2	12	6	16	12	–	<4	27	<2	–	121	–

SS14-23	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-23-01-AD05	0.0 – 0.5	4.98	102	0.182	26.6	5.43	12.2	8.66	251	0.81	19.4	<1	0.078	46.4	10
SS14-23-02-AD05	0.5 – 1.0	5.69	132	0.286	70.1	7.18	13.1	10.8	311	1.03	32.8	<1	0.083	59.5	11.6
SS14-23-03-AD05	1.0 – 1.5	8.26	124	0.262	35.7	6.88	14.5	14.2	150	1.38	24.5	<1	0.127	74.7	19.2

BH14-24	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-24-01-AD05	0.8 – 0.8	4.85	108	0.257	14.8	4.52	17.6	7.04	199	0.65	17	<1	0.056	38.1	1,110
BH14-24-02-AD05	1.1 – 1.1	2.85	165	0.456	18.7	5.02	8.51	8.84	188	1.03	13.3	<1	0.061	238	1,280
BH14-24-03-AD05	1.5 – 1.5	5.24	13.5	0.177	22.3	6.27	12.4	7.21	153	0.85	26.5	<1	0.093	45.6	369
BH14-24-12-AD05	20.1 – 20.1	6.27	63.1	0.287	4.3	2.42	10	4.24	274	0.85	11.1	<1	0.093	30	5.1
BH14-24-14-AD05	20.7 – 20.7	3.43	336	0.511	20.7	5.85	33.6	10.4	135	0.34	20.6	<1	0.093	87.8	–
BH14-24-15-AD05	20.9 – 20.9	9.56	257	0.593	22.1	8.47	21.5	11.9	209	0.56	28.3	<1	0.131	79.5	–
BH14-24-18-AD05	24.7 – 24.7	3.58	80.1	0.136	13.5	3.06	7.05	5.06	198	0.45	11.1	<1	<0.1	26.1	–

BH12	Sample Depth	Cl
BH12-01	1.2 – 1.2	1,240
BH12-05	7.3 – 7.3	20

SS14-19	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-19-01-AD05	0.0 – 0.5	5.44	151	0.293	84.3	6.49	14.5	20.3	353	1.61	20.3	<1	0.087	51.3	1,110
SS14-19-02-AD05	0.5 – 1.0	4.54	150	0.253	84.8	6.36	15.4	17.8	285	1.24	20.4	<1	0.07	46.6	1,080
SS14-19-03-AD05	1.0 – 1.5	5.49	145	0.293	51.9	6.98	16.3	14.7	294	1.32	22.7	<1	0.073	52.7	918

BH14-23	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-23-01-AD05	0.6 – 0.6	4.62	167	0.234	15.1	5.18	13.6	13	267	0.73	17.6	<1	0.068	39	11.1
BH14-23-02-AD05	1.2 – 1.2	4.14	198	0.409	15.7	5.79	13.8	13.9	288	0.71	21	<1	0.076	47.5	10.3
BH14-23-15-AD05	16.3 – 16.3	3.79	70.3	0.246	10.1	5.21	10.6	4.71	217	0.63	14.7	<1	<0.1	31.3	180
BH14-23-16-AD05	17.5 – 17.5	3.02	71.7	0.16	18	4.06	7.65	3.49	156	0.51	16.5	<1	<0.1	26.9	122
BH14-23-17-AD05	19.7 – 19.7	3.71	81.7	0.171	14.7	4.02	8.06	3.77	153	0.49	15.8	<1	<0.1	31.3	51.8
BH14-23-23-AD05	27.0 – 27.0	4.86	206	0.368	9.9	3.41	11.7	4.27	148	0.58	12.2	<1	<0.1	45.2	4.6
BH14-23-23A-AD05	DUP. OF ABOVE	5.71	227	0.31	9.6	3.47	12.5	4.85	153	0.66	12.3	<1	<0.1	46.4	6.4

BH110	Sample Depth	Cl
BH110-1	0.0 – 0.6	144
GR55	DUP. OF ABOVE	87
BH110-2	1.1 – 1.4	218
GR56	DUP. OF ABOVE	255

SS12-01	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn
SS12-01-AD05	0.2 – 0.5	2.2	178	0.15	24	5.7	10.8	10.3	0.37	20.8	1.8	0.11	82

BH127	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Zn
BH127-1	0.5 – 0.8	5.1	235	<0.5	18.2	6.3	15.4	<30	<4	20.8	<2.8	66.8
BH127-2	1.1 – 1.4	10.7	276	<0.5	34.8	11.4	15.1	<30	<4	32.6	<2	71.2
GR2	DUP. OF ABOVE	10.7	276	<0.5	34.6	11.4	17.3	<30	<4	35.1	<2	67.2

SS14-17	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-17-01-AD05	0.0 – 0.5	3.87	117	0.172	45.6	6.31	10.4	10.5	195	3.47	23.3	<1	0.084	55.6	72.9
SS14-17-02-AD05	0.5 – 1.0	5.89	95.4	0.18	30.9	6.79	14.1	9.74	159	1.25	27.5	<1	0.119	54.5	139
SS14-17-03-AD05	1.0 – 1.5	5.67	91.5	0.205	25.2	8.66	14.4	9.06	159	0.83	25.9	<1	0.109	54.9	64.7

MR4	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn
MR-4	0.0 – 0.2	3.8	154	23.1	20	5	9	65.6	248	0.5	16	0.3	<0.1	294
GR2	DUP. OF ABOVE	3.8	169	35	22	6	10	87.5	259	0.6	17	0.3	<0.1	370

SS12-02	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn
SS12-02-AD05	0.2 – 0.5	1.4	279	0.56	21	4.7	10.1	8.2	0.5	18.1	0.8	0.13	84

BH14-22	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-22-01-AD05	1.2 – 1.2	5.83	201	0.452	25.7	7.6	11.8	23.3	324	1.08	16.8	<1	0.09	82.8	9,390
BH14-22-19A-AD05	26.8 – 26.8	3.57	175	0.279	19.4	7	12.7	6.53	230	0.47	20.2	<1	0.08	51	56.1
BH14-22-19-AD05	DUP. OF ABOVE	4.18	191	0.271	21.2	7.3	14.7	7.56	248	0.52	22.7	<1	0.107	54.8	51.1
BH14-22-30-AD05	29.1 – 29.1	2.78	150	0.344	25.7	8.93	<4	4.4	271	0.55	26.4	<1	0.083	46.5	6.1

SS12-03	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn
SS12-03-AD05	0.2 – 0.5	1.4	232	0.87	20	4.4	11.6	7.7	0.27	17.6	0.1	0.14	80

FIRE14SS4	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
FIRE14SS4	0.0 – 0.5	<1	245	1.39	1.1	2.15	5.17	1.05	681	2.33	2.8	<1	<0.1	178	222

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (µg/g) EXCEPT SAR (UNITLESS)

As	ARSENIC
Ba	BARIUM
Cd	CADMIUM
Cr	CHROMIUM
Co	COBALT
Cu	COPPER
Pb	LEAD
Mn	MANGANESE
Mo	MOLYBDENUM
Ni	NICKEL
Se	SELENIUM
Tl	TITANIUM
Zn	ZINC
Cl	CHLORIDE
SAR	SODIUM ADSORPTION RATION
V	VANADIUM
Na	SODIUM

FEDERAL GUIDELINES

	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl	SAR	V	Na
CCME CEQG RL GUIDELINES (µg/g)	12	500	10	64	50	63	140	10	10	45	1	1	200	n/a	5	130	n/a

CCME CEQG Residential Land Use (RL)

BC STANDARDS

	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl	SAR	V	Na
CSR RLLD STANDARDS (<3m) (µg/g)	10	350	1–20	60	25	75–150	120	2,000	15	70–150	1	9	150–450	100	n/a	100	200
CSR IL STANDARDS (>3m) (µg/g)	10	350	20–50	60	25	300	150	2,000	15	250	1	25	450	100	n/a	100	1,000

CSR Residential (RI)/Commercial (CI) Land Use

SEE DRAWING 904B FOR CONTINUATION

LEGEND

- SUBJECT PROPERTY LIMITS
- LOT BOUNDARY
- FIBER OPTIC LINE
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- REMEDIAL EXCAVATION BOUNDARY (SNC, 2016)
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT
- SURFICIAL SOIL SAMPLE LOCATION
- FORMER SITE CONFIGURATION
- SITE FEATURE
- GARDEN

0 10 20 30 METRES

LOCATION	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl	SAR
BH14-11	1.4 – 1.4	6.58	149	0.171	23.6	7.58	14.2	7.85	330	0.77	37	<1	0.077	53.6	38.1	38.1
BH14-11-02-AD05																

ANALYTICAL SOIL RESULTS

- LOCATION
- SAMPLE ID
- DEPTH OF SAMPLE (m)
- CONCENTRATION LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (µg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL GUIDELINES (µg/g)
- <0.5 — CONCENTRATION BELOW DETECTION LIMIT (DL) BUT DL IS GREATER THAN GUIDELINE/STANDARD

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. OTHER INORGANIC CONSTITUENTS WERE ANALYZED FOR SAMPLES COLLECTED FROM VARIOUS LOCATIONS AND WERE LESS THAN THE APPLICABLE STANDARDS/GUIDELINES. ONLY THE CONFIRMED CONTAMINANTS OF CONCERN ARE SHOWN ON THE DRAWING.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2018–03–29	ISSUED TO CLIENT	PES	CS
1	2017–09–07	ISSUED TO CLIENT AS DRAFT	PES	CS
0	2017–07–27	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

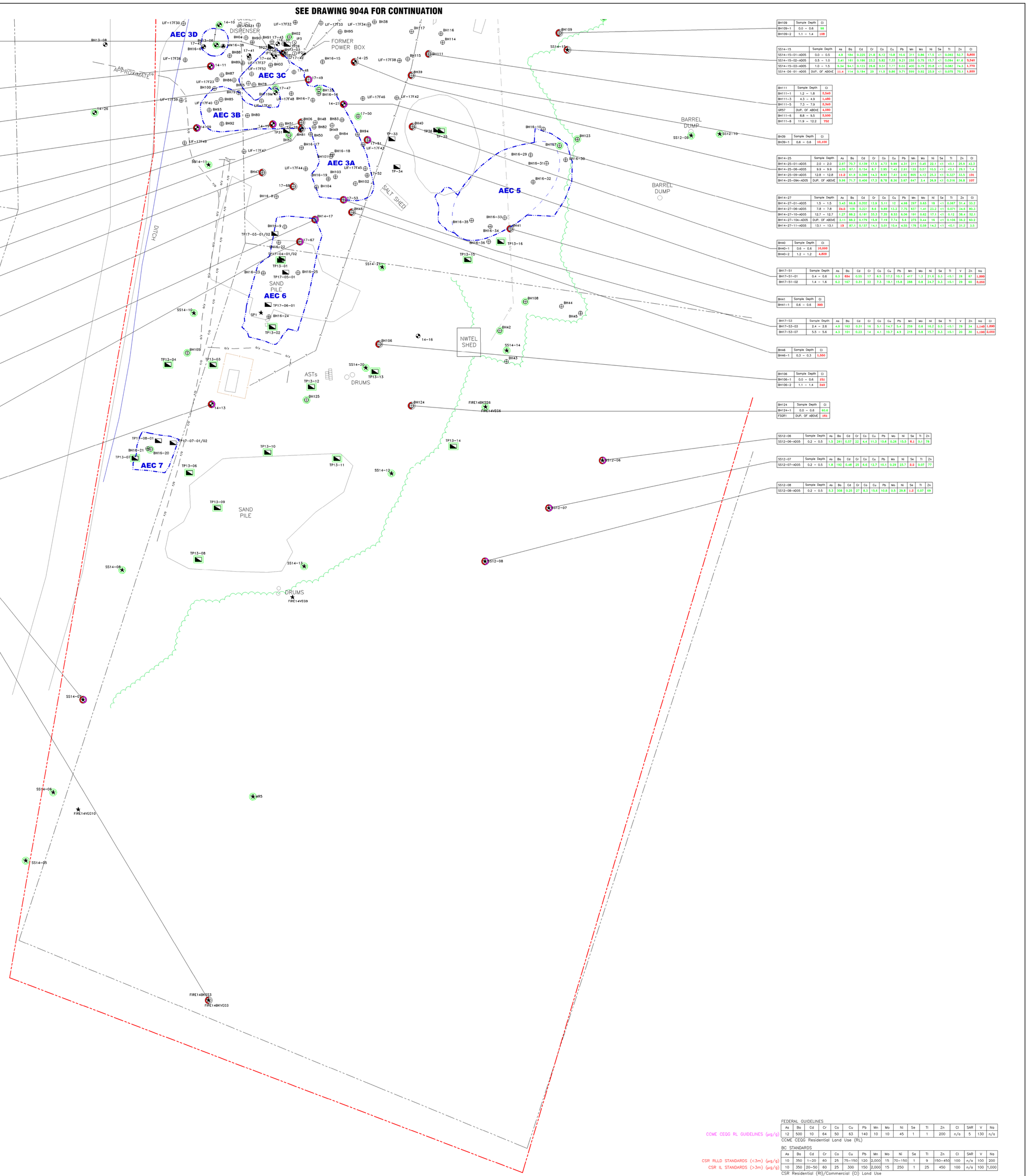
PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - INORGANICS (NORTH)**

DWN BY: PES | SCALE: 1:600 | DATE: 2017–07–18 | DWG No: 636200-904A | REV.: 2

CHK'D: CS | PLOT: 20180315.1746 | CADFILE: 636200R16

SEE DRAWING 904A FOR CONTINUATION



BH13-03	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn	Cl
BH13-03-23-ADD5	17.9 – 18.1	2.4	25.1	<0.5	3.6	2.3	6.2	3	<0.5	7.6	<0.5	<0.5	19	175
BH13-03-25-ADD5	19.5 – 19.8	2.3	63.3	<0.5	5.8	2.7	7.4	3.7	0.6	8.7	<0.5	<0.5	20	64
BH13-03-33-ADD5	25.7 – 25.9	1.9	35.5	<0.5	9.5	5.7	7.9	3.8	0.6	12.6	<0.5	<0.5	22	70
BH13-03-A-ADD5	DUP. OF ABOVE	2.1	35.1	<0.5	9.8	3.6	7.8	3.6	0.6	12.4	<0.5	<0.5	21	68
BH13-03-34-ADD5	26.2 – 26.5	1.8	46	<0.5	9.9	3.2	7.8	4.2	<0.5	11.7	<0.5	<0.5	22	67
BH13-03-35-ADD5	26.8 – 27.0	1.6	33.7	<0.5	6.8	2.6	7.7	3.2	<0.5	9.4	<0.5	<0.5	18	98
BH13-03-36-ADD5	28.1 – 28.4	1.2	31.2	<0.5	6.7	2.5	6.6	3	0.5	10.7	<0.5	<0.5	18	182

BH14-11	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-11-02-ADD5	1.4 – 1.4	6.58	149	0.171	23.6	7.58	14.2	7.85	330	0.77	27	<1	0.077	53.8	38.1
BH14-11-02A-ADD5	DUP. OF ABOVE	7.23	160	0.179	25.5	7.95	15.6	8.14	329	0.98	27.8	<1	0.094	56.5	36.7
BH14-11-33-ADD5	21.3 – 21.3	38.5	1,680	9.71	20.3	227	78.3	6.68	24,700	24.8	273	<1	5.91	212	–
BH14-11-47-ADD5	30.5 – 30.5	2.75	155	0.185	16.4	3.39	10.7	5.02	133	1.17	14.5	<1	0.053	30.1	20.3

BH17-49	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	V	Zn	Na
BH17-49-09	7.5 – 7.6	27.0	1,060	2.64	188	49.8	107	41.3	2,300	7.7	200	<0.1	0.6	231	338	51

BH14-09	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-09-02-ADD5	1.4 – 1.4	4.71	111	0.395	74.5	6.69	17	6.28	306	0.83	29.8	<1	0.082	47.5	9.8
BH14-09-41-ADD5	31.2 – 31.2	2.49	110	0.140	14.2	3.4	24.7	3.4	160	2.02	11.7	<1	<0.1	29.3	33.9
BH14-09-40-ADD5	32.3 – 32.3	5.92	84.5	0.167	17.1	3.84	10.2	5.84	163	1.89	11.6	<1	0.055	29.5	45.7

BH14-19	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-19-24-ADD5	18.8 – 18.8	10.3	3,150	38.1	10.8	794	360	6.95	93,900	81.8	908	<1	85.1	627	366
BH14-19-37-ADD5	31.2 – 31.2	3.3	71	0.13	27.7	4.71	11.2	3.5	183	0.55	21.5	<1	<0.1	28.8	7.5
BH14-19-41A-ADD5	32.8 – 32.8	3.09	99.7	0.187	32.9	5.43	15.7	3.73	214	2.02	23.6	<1	0.052	36.4	–

BH06	Sample Depth	Cl
BH06-05	7.3 – 7.3	564

BH14-28	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-28-07-ADD5	12.8 – 12.8	3.96	342	0.316	20.8	32	12.4	5.22	4,430	5.91	24.1	<1	0.167	42.1	184
BH14-28-10-ADD5	15.9 – 15.9	2.5	48.3	0.119	13.2	3.87	6.78	3.19	165	0.73	12.1	<1	<0.1	21.3	39.1

BH17	Sample Depth	Cl
BH17-1	0.3 – 0.3	3,130

BH17-68	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	V	Zn	Na	Cl
BH17-68-05	3.7 – 3.8	3.5	76.3	0.16	12	3.9	8.0	3.1	216	0.4	10.2	0.2	<0.1	16	26	–	–
BH17-68-18	13.0 – 13.1	4.1	71.6	0.27	18	7.0	10.9	3.3	969	0.9	21.4	0.2	0.1	22	31	–	–
BH17-68-19	13.6 – 13.7	3.8	86.6	0.25	43	13.8	12.0	4.2	1,450	1.3	37.7	0.3	0.4	49	39	2	<2
BH17-68-21	15.1 – 15.2	3.7	67.1	0.12	22	6.3	8.6	5.2	298	1.0	20.5	0.3	0.1	24	35	2	<2
BH17-68-22	DUP. OF ABOVE	3.4	42.4	0.09	14	4.1	6.1	3.3	257	0.5	13.4	0.2	<0.1	16	26	–	–
BH17-68-24	16.3 – 16.5	18.7	123	0.83	16	6.7	20.1	15.4	395	1.3	17.7	0.9	<0.1	25	85	<2	<2
BH17-68-26	18.1 – 18.3	10.4	127	0.41	17	7.3	19.9	10.4	379	1.1	21.9	1.8	<0.1	24	73	–	–

BH14-17	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-17-2-ADD5	1.1 – 1.1	5.27	169	0.238	22.5	5.03	18	15.4	256	3.06	16	<1	0.064	48.7	30.6
BH14-17-6-ADD5	3.2 – 3.2	4.36	123	0.274	13.4	4.57	12.4	6.11	344	0.93	17.2	<1	0.077	35.4	134
BH14-17-17-ADD5	10.7 – 10.7	9.06	1,090	1.12	15.5	75.4	24.1	12.2	50,000	18.6	81.8	<1	0.85	148	25.4

BH17-67	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	V	Zn	Na	Cl
BH17-67-07	4.4 – 4.6	5.0	104	0.31	19	6.7	15.9	5.0	376	0.5	21.2	0.4	0.1	29	51	–	–
BH17-67-12	7.5 – 7.6	13.4	139	0.84	18	10.2	23.0	13.5	4,000	5.0	78.2	1.2	0.1	25	98	–	–
BH17-67-14	9.0 – 9.1	10.2	355	0.86	15	11.1	21.5	10.0	9,910	5.3	85.2	0.7	0.2	23	114	–	–
BH17-67-16	10.5 – 10.7	18.9	371	2.29	18	12.4	25.8	18.7	24,800	27.6	118	1.4	0.6	40	163	4	2
BH17-67-17	11.3 – 11.4	11.7	1,050	3.53	17	15.6	28.1	18.1	<1	22.9	195	0.9	1.8	27	384	5	3
BH17-67-18	DUP. OF ABOVE	10.8	921	3.07	17	14.4	28.4	17.4	45,400	21.2	178	1.0	1.8	29	190	4	2
BH17-67-19	12.0 – 12.2	9.8	165	0.71	26	9.2	19.8	13.7	6,060	3.0	40.9	1.2	0.3	29	96	4	<2

BH14-13	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-13-01-ADD5	1.1 – 1.1	3.91	127	0.195	16.2	6.56	33.9	11.1	355	3.85	17.8	<1	0.074	63.6	5.5
BH14-13-16-ADD5	3.4 – 3.4	7.02	213	0.649	45.6	14	34.4	13.9	475	1.18	41.5	0.62	0.363	91.8	–
BH14-13-17-ADD5	11.6 – 11.6	6.34	74.4	0.454	13.5	9.7	21.7	15	431	1.86	19.8	<1	0.148	78.2	–
BH14-13-25-ADD5	18.1 – 18.1	6.49	123	0.637	13.1	8.62	20.2	14.6	587	1.51	16.2	<1	0.131	74.7	2.2
BH14-13-25A-ADD5	DUP. OF ABOVE	6.75	121	0.467	13	7.02	19.9	14.4	610	1.74	17.1	0.54	0.144	79	4.2
BH14-13-30-ADD5	22.1 – 22.1	5.8	114	0.433	12.3	6.68	18.4	12.1	305	1.78	15.6	1.36	0.072	65.5	4.6
BH14-13-30A-ADD5	DUP. OF ABOVE	6.03	112	0.516	13.3	7.21	17.8	13.3	340	1.64	16.6	0.67	0.236	69.9	3.8

SS14-07	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-07-01-ADD5	0.0 – 0.5	4.81	117	0.265	69.5	6.2	16.5	8.39	302	6.61	22.4	<1	0.057	36.8	11.2
SS14-07-02-ADD5	0.5 – 1.0	4.61	121	0.219	28.7	5.75	12.5	8.52	249	0.78	20.1	<1	0.061	35.3	11.6
SS14-07-03-ADD5	1.0 – 1.5	4.47	129	0.228	27.9	5.55	13.8	5.83	267	1.02	19.8	<1	0.071	36.6	9.1

FIRE14BKSS3	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
FIRE14BKSS3	0.0 – 0.5	1.46	334	1.61	10.9	5.49	9.71	10.9	464	0.8	12.5	<1	0.061	88.8	52

BH109	Sample Depth	Cl
BH109-1	0.0 – 0.6	96
BH109-2	1.1 – 1.4	108

SS14-15	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
SS14-15-01-ADD5	0.0 – 0.5	4.9	184	0.225	21.8	6.12	10.8	10.6	311	0.86	17.5	<1	0.092	52.7	3,800
SS14-15-02-ADD5	0.5 – 1.0	5.41	141	0.186	23.3	5.82	7.53	9.21	255	0.75	15.7	<1	0.094	61.4	5,240
SS14-15-03-ADD5	1.0 – 1.5	9.34	94.1	0.123	26.8	9.51	7.77	8.03	400	0.78	20.8	<1	0.082	74.3	1,770
SS14-06-01-ADD5	DUP. OF ABOVE	11.4	114	0.184	29	11.5	8.86	9.71	599	0.92	23.9	<1	0.075	75.1	1,830

BH111	Sample Depth	Cl
BH111-1	1.2 – 1.8	2,540
BH111-3	4.3 – 4.9	1,480
BH111-5	7.3 – 7.9	2,340
GR57	DUP. OF ABOVE	4,080
BH111-6	8.8 – 9.5	2,500
BH111-8	11.9 – 12.2	752

BH39	Sample Depth	Cl
BH39-1	0.6 – 0.6	16,100

BH14-25	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-25-01-ADD5	2.0 – 2.0	2.97	70.7	0.139	17.5	4.73	9.99	4.31	211	0.45	22.1	<1	<0.1	25.8	42.3
BH14-25-06-ADD5	9.9 – 9.9	4.05	67.1	0.154	8.7	2.85	7.43	2.81	133	0.57	10.5	<1	<0.1	29.1	7.4
BH14-25-09-ADD5	12.8 – 12.8	11.2	41.9	0.398	14.3	8.93	7.61	2.92	805	4.12	25.3	<1	0.327	33.5	131
BH14-25-09A-ADD5	DUP. OF ABOVE	9.96	71.7	0.406	17.3	8.78	8.36	3.67	847	3.4	26.9	<1	0.316	36.8	107

BH14-27	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl
BH14-27-01-ADD5	1.5 – 1.5	3.43	98.8	0.202	12.9	5.11	12	4.98	297	0.63	19	<1	0.067	31.4	33.2
BH14-27-06-ADD5	7.8 – 7.8	84.8	109	0.221	8.5	9.89	13.3	7.75	637	1.41	23.2	<1	0.071	34.5	80.3
BH14-27-10-ADD5	12.7 – 12.7	1.27	86.2	0.181	33.3	7.35	8.53	8.06	191	0.63	17.1	<1	0.12	36.4	52.1
BH14-27-10A-ADD5	DUP. OF ABOVE	2.11	88.2	0.179	15.9	7.19	7.74	5.6	273	0.44	16	<1	0.106	36.2	60.2
BH14-27-11-ADD5	13.1 – 13.1	13	87.1	0.137	14.1	5.01	10.4	4.55	176	0.59	14.2	<1	<0.1	31.2	3.5

BH40	Sample Depth	Cl
BH40-1	0.6 – 0.6	10,000
BH40-2	1.2 – 1.2	4,820

BH17-51	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	V	Zn	Na
BH17-51-01	0.4 – 0.6	6.3	534	0.55	17	6.5	17.2	10.1	417	1.3	21.4	0.3	<0.1	28	67	1,980
BH17-51-02	1.4 – 1.6	6.2	167	0.31	22	7.3	18.1	15.8	288	0.8	24.7	0.3	<0.1	29	60	9,200

BH41	Sample Depth	Cl
BH41-1	0.6 – 0.6	390

BH17-53	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	V	Zn	Na	Cl
BH17-53-03	2.4 – 2.6	4.9	163	0.31	16	5.1	14.7	5.4	259	0.8	16.2	0.5	<0.1	29	34	1,140	1,890
BH17-53-07	5.5 – 5.6	4.3	101	0.23	14	4.1	16.7	4.9	218	0.8	15.7	0.3	<0.1	20	30	1,190	2,050

BH46	Sample Depth	Cl
BH46-1	0.3 – 0.3	1,850

BH106	Sample Depth	Cl
BH106-1	0.0 – 0.6	151
BH106-2	1.1 – 1.4	340

BH124	Sample Depth	Cl
BH124-1	0.0 – 0.6	60.6
FSGR1	DUP. OF ABOVE	161

SS12-06	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn
SS12-06-ADD5	0.2 – 0.5	1.5	261	0.57	22	4.4	11.3	10.6	0.26	15.5	8.1	0.1	78

SS12-07	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn
SS12-07-ADD5	0.2 – 0.5	1.8	192	0.48	25	6.6	12.7	10.1	0.29	23.7	8.8	0.07	77

SS12-08	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Tl	Zn
SS12-08-ADD5	0.2 – 0.5	5.3	308	0.25	27	8.3	15.6	10.8	0.5	29.8	1.2	0.07	69

KEY PLAN

ALL RESULTS REPORTED IN MICROGRAMS PER GRAM (µg/g) EXCEPT SAR (UNITLESS)

As	ARSENIC
Ba	BARIUM
Cd	CADMIUM
Cr	CHROMIUM
Co	COBALT
Cu	COPPER
Pb	LEAD
Mn	MANGANESE
Mo	MOLYBDENUM
Ni	NICKEL
Se	SELENIUM
Tl	TITANIUM
Zn	ZINC
Cl	CHLORIDE
SAR	SODIUM ADSORPTION RATION
V	VANADIUM
Na	SODIUM

FEDERAL GUIDELINES

	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl	SAR	V	Na
CCME CEQG RL GUIDELINES (µg/g)	12	500	10	64	50	63	140	10	10	45	1	1	200	n/a	5	130	n/a

CCME CEQG Residential Land Use (RL)

BC STANDARDS

	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl	SAR	V	Na
CSR RLLD STANDARDS (<3m) (µg/g)	10	350	1–20	60	25	75–150	120	2,000	15	70–150	1	9	150–450	100	n/a	100	200
CSR IL STANDARDS (>3m) (µg/g)	10	350	20–50	60	25	300	150	2,000	15	250	1	25	450	100	n/a	100	1,000

CSR Residential (RI)/Commercial (CI) Land Use

LEGEND

0 10 20 30 METRES

- SUBJECT PROPERTY LIMITS
- LOT BOUNDARY
- FIBER OPTIC LINE
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- REMEDIAL EXCAVATION BOUNDARY (SNC, 2016)
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- TEST PIT LOCATION
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT
- SURFICIAL SOIL SAMPLE LOCATION
- FORMER SITE CONFIGURATION
- SITE FEATURE
- GARDEN
- <0.5 CONCENTRATION BELOW DETECTION LIMIT (DL) BUT DL IS GREATER THAN GUIDELINE/STANDARD

ANALYTICAL SOIL RESULTS

BH14-11	Sample Depth	As	Ba	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Tl	Zn	Cl	SAR
BH14-11-02-ADD5	1.4 – 1.4	6.58	149	0.171	23.6	7.58	14.2	7.85	330	0.77	27	<1	0.077	53.8	38.1	38.1

LOCATION — SAMPLE ID — DEPTH OF SAMPLE (m)

- CONCENTRATION LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- CONCENTRATION GREATER THAN THE APPLICABLE CSR RLLD AND/OR IL STANDARDS (µg/g)
- CONCENTRATION GREATER THAN THE APPLICABLE CCME CEQG RL GUIDELINES (µg/g)

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. OTHER HYDROCARBON CONSTITUENTS WERE ANALYZED FOR SAMPLES COLLECTED FROM VARIOUS LOCATIONS AND WERE LESS THAN THE APPLICABLE STANDARDS/GUIDELINES. ONLY THE CONFIRMED CONTAMINANTS OF CONCERN ARE SHOWN ON THE DRAWING.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2018–03–29	ISSUED TO CLIENT	PES	CS
1	2017–09–07	ISSUED TO CLIENT AS DRAFT	PES	CS
0	2017–07–27	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

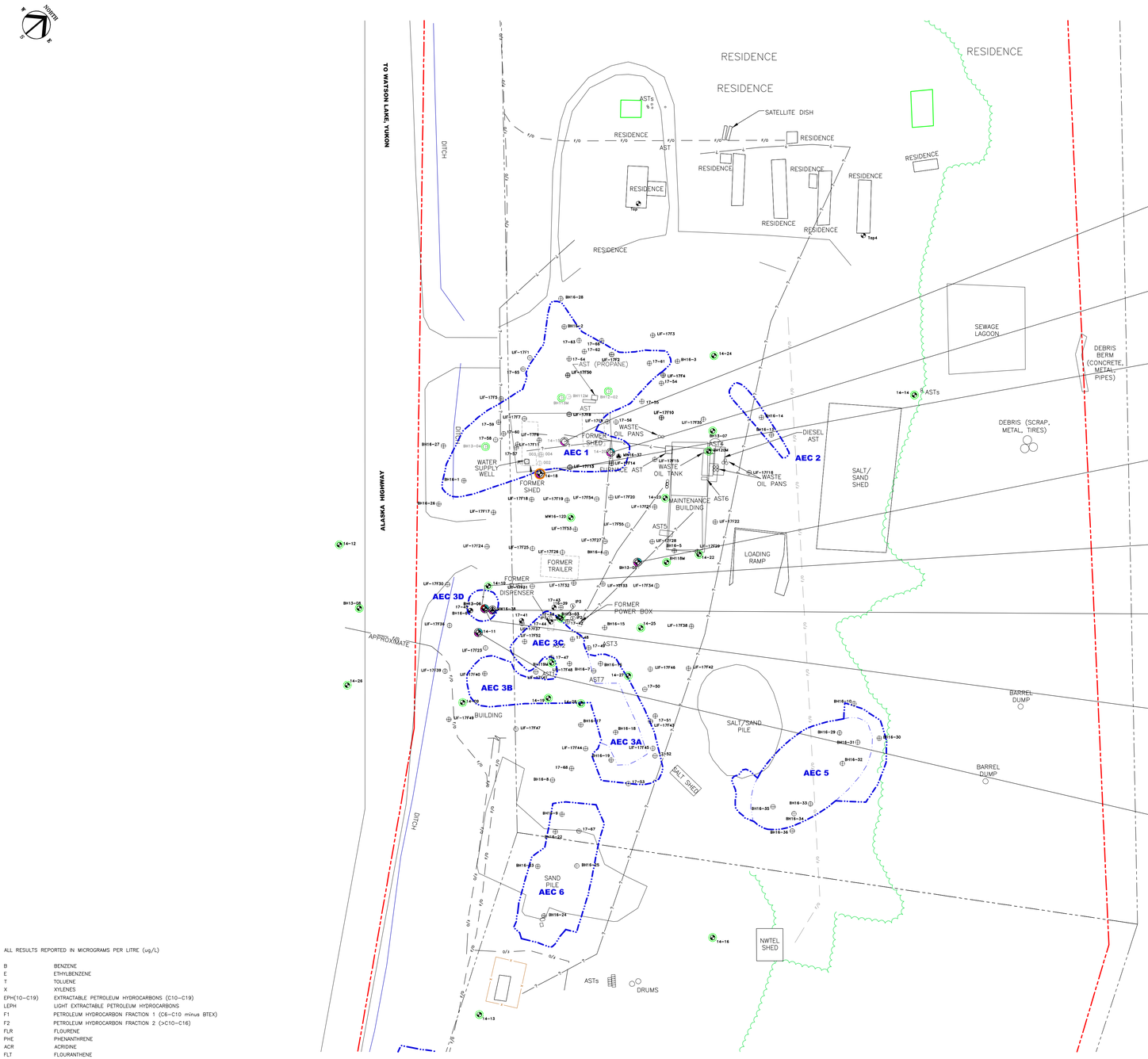
CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **DETAILED SOIL ANALYTICAL RESULTS - INORGANICS (SOUTH)**

DWN BY: PES | SCALE: 1:600 | DATE: 2017–07–18 | DWG No: | REV.: 2

CHK'D: CS | PLOT: 20180315.1750 | CADFILE: 636200R16 | **636200-904B**



BH14-15	Sample Date	B	T	EPH(10-19)	LEPH	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH14-15-GW01-AD05	2014 03 10	<0.8	<0.8	<400	<400	<0.86	0.12	<0.1	<0.04	<0.04	<0.1
BH14-15A-GW01-AD05	DUP. OF ABOVE	<0.8	<0.8	<400	<400	<0.86	0.12	<0.1	<0.04	<0.04	<0.1
BH14-15-GW2-AD05	2014 08 14	<0.8	<0.8	260	260	<1.9	0.35	<0.1	<0.04	<0.04	<0.1
BH14-A-GW2-AD05	DUP. OF ABOVE	<0.8	<0.8	290	290	0.93	0.33	<0.1	<0.04	<0.04	<0.1
MW14-15-141030	2014 10 30	–	–	<200	<200	0.79	0.3	<0.05	0.048	0.022	<0.05
MW14-A-141030	DUP. OF ABOVE	–	–	<200	<200	0.89	0.34	<0.05	<0.02	<0.02	<0.05

BH14-20	Sample Date	B	T	EPH(10-19)	LEPH	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH14-20-GW01-AD05	2014 03 10	<0.8	<0.8	370	370	<1.5	1	<0.1	<0.04	<0.04	<0.1
BH14-20-GW2-AD05	2014 08 14	<0.8	<0.8	300	300	0.79	1.3	<0.1	<0.04	<0.04	<0.1
MW14-20-141101	2014 11 01	–	–	520	520	1.2	1.7	<0.05	<0.02	0.02	<0.05
BH14-20-GW03-AD05	2015 10 01	<0.40	<0.40	520	520	<0.71	1.3	<0.050	<0.020	<0.020	<0.050

BH14-18	Sample Date	B	T	EPH(10-19)	LEPH	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH14-18-GW01-AD05	2014 03 13	<0.8	<0.8	830	830	<1.6	0.49	0.084	<0.04	0.023	<0.1
BH14-18-GW2-AD05	2014 08 17	<0.8	<0.8	280	280	0.76	0.54	<0.1	<0.04	0.022	<0.1
MW14-18-141030	2014 10 30	–	–	720	720	0.86	0.72	<0.05	0.046	0.054	<0.05
BH14-18-GW03-AD05	2015 09 28	<0.40	<0.40	1,500	1,500	<1.0	0.84	<0.050	0.024	0.080	<0.050

BH13-05	Sample Date	B	T	EPH(10-19)	LEPH	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH13-05	2013 10 29	<0.8	<0.8	590	590	2.3	2	<0.1	<0.04	<0.04	<0.1
DUP 1	DUP. OF ABOVE	<0.8	<0.8	680	680	2.6	2.3	<0.1	<0.04	<0.04	<0.1
BH13-05-GW2-AD05	2014 08 15	–	–	200	<400	0.65	0.85	<0.1	<0.04	<0.04	<0.1
BH14-B-GW2-AD05	DUP. OF ABOVE	–	–	200	<400	0.55	0.85	<0.1	<0.04	<0.04	<0.1
MW13-05-141030	2014 10 30	–	–	360	360	0.83	1.1	<0.05	<0.02	<0.02	<0.05
BH13-05-GW03-AD05	2015 09 28	<0.40	<0.40	910	910	<0.24	0.43	<0.050	<0.020	<0.020	<0.050
DUP 1-150928	DUP. OF ABOVE	<0.40	<0.40	890	890	<0.23	0.43	<0.050	<0.020	<0.020	<0.050

BH14-10	Sample Date	B	T	EPH(10-19)	LEPH	F1	F2	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH14-10-GW2-AD05	2014 03 11	<0.8	<0.8	3,400	3,400	–	–	4	5.3	0.32	0.042	0.14	<0.1
BH14-10-GW2-AD05	2014 08 13	–	–	250	250	–	–	<2.4	1.1	<0.1	<0.04	<0.04	<0.1
PUMPTEST	2014 08 14	–	–	280	280	–	–	1.4	1.1	<0.050	<0.020	<0.020	<0.050
MW14-10-141030	2014 10 30	–	–	<200	<200	–	–	0.42	0.3	<0.05	<0.02	<0.02	<0.05
BH14-10-GW03-AD05	2015 09 28	<0.40	<0.40	920	920	–	–	<1.9	0.7	<0.050	0.033	0.081	<0.050
MW14-10-170618/20	2017 06 18/20	<0.5	<0.5	170	170	<100	110	<0.02	<0.04	<0.05	<0.02	<0.02	<0.01

IW16-38	Sample Date	B	E	T	X	F1	F2
MW16-38-161011	2016 10 11	0.40	2.1	1.9	50	1,500	5,800
MW16-38-161027/28	2016 10 27	<0.40	0.96	1.1	27	670	3,200

BH13-06	Sample Date	B	T	EPH(10-19)	LEPH	F1	F2	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH13-06	2013 10 29	<0.8	<0.8	8,200	8,200	–	–	<19	14	0.63	0.13	0.25	<0.1
BH13-06-GW2-AD05	2014 08 13	–	–	340	340	–	–	<3	1.6	<0.1	<0.04	<0.04	<0.1
MW13-06-141031	2014 10 31	–	–	460	460	–	–	0.92	1	<0.05	<0.02	<0.02	<0.05
BH13-06-GW03-AD05	2015 09 28	<0.40	<0.40	340	340	–	–	<1.1	0.77	<0.050	<0.020	<0.020	<0.050
MW13-06-161009	2016 10 09	<0.40	<0.40	–	–	<300	630	–	–	–	–	–	–
MW13-06-161011-1	2016 10 11	<0.40	<0.40	–	–	<300	830	–	–	–	–	–	–
MW13-06-161011-2	2016 10 11	<0.40	<0.40	–	–	<300	710	–	–	–	–	–	–
MW13-06-161011-3	2016 10 11	<0.40	<0.40	–	–	<300	670	–	–	–	–	–	–
MW13-06-161011-4	2016 10 11	<0.40	<0.40	–	–	<300	700	–	–	–	–	–	–
MW13-06-161011-5	2016 10 11	<0.40	<0.40	–	–	<300	860	–	–	–	–	–	–
MW13-06-161121	2016 11 21	<0.40	<0.40	–	–	<300	730	–	–	–	–	–	–
MW13-06-170612/13	2017 06 12/13	<0.5	<0.5	15,900	15,900	<100	11,400	1.4	1.7	<0.5	<0.02	0.20	0.07

BH14-11	Sample Date	B	T	EPH(10-19)	LEPH	F1	F2	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH14-11-GW01-AD05	2014 03 10	<0.8	<0.8	56,000	56,000	–	–	18	14	<3.8	0.38	0.23	<0.1
BH14-11-GW2-AD05	2014 08 14	–	–	220	220	–	–	0.84	0.87	<0.1	<0.04	<0.04	<0.1
MW14-11-141031	2014 10 31	–	–	1,400	1,300	–	–	1	1.1	<0.05	0.022	0.091	<0.05
BH14-11-GW03-AD05	2015 09 28	<0.40	<0.40	4,400	4,400	–	–	<1.2	2.1	<0.050	0.022	0.052	<0.050
MW14-11-170618/19	2017 06 18/19	<0.5	<0.5	860	860	930	510	<0.02	<0.04	<0.05	<0.02	<0.02	<0.01

ALL RESULTS REPORTED IN MICROGRAMS PER LITRE (ug/L)

B	BENZENE
E	ETHYLBENZENE
T	TOLUENE
X	XYLENES
EPH(10-C19)	EXTRACTABLE PETROLEUM HYDROCARBONS (C10-C19)
LEPH	LIGHT EXTRACTABLE PETROLEUM HYDROCARBONS
F1	PETROLEUM HYDROCARBON FRACTION 1 (C6-C10 minus BTEX)
F2	PETROLEUM HYDROCARBON FRACTION 2 (>C10-C16)
FLR	FLOURENE
PHE	PHENANTHRENE
ACR	ACRIDINE
FLT	FLOURANTHENE
PYR	PYRENE
D(ah)A	DIBENZO(a,h)ANTHRACENE

FEDERAL GUIDELINES

	B	E	T	X	EPH(10-19)	LEPH	F1	F2	FLR	PHE	ACR	FLT	PYR	D(ah)A
Canadian Drinking Water Quality Guidelines (CDWQG)	5	1.6	24	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FGQG Tier 2 Residential Land Use (RL)	140	16,000	83	3,900	N/A	N/A	810	1,300	3	0.4	0.05	0.04	0.025	0.26

BC STANDARDS

	B	E	T	X	EPH(10-19)	LEPH	F1	F2	FLR	PHE	ACR	FLT	PYR	D(ah)A
CSR Drinking Water (DW)	5	140	60	90	5,000	N/A	N/A	N/A	150	N/A	N/A	150	100	0.01
CSR Aquatic Life (AW)	400	2,000	5	300	5,000	500	N/A	N/A	120	3	0.5	2	0.2	N/A

LEGEND

- SUBJECT PROPERTY LIMITS
- LOT BOUNDARY
- FIBER OPTIC LINE
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- REMEDIAL EXCAVATION BOUNDARY (SNC, 2016)
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT
- FORMER SITE CONFIGURATION
- SITE FEATURE
- GARDEN

<0.5 CONCENTRATION BELOW DETECTION LIMIT (DL) BUT DL IS GREATER THAN GUIDELINE/STANDARD

0 10 20 30 40 METRES

ANALYTICAL GROUNDWATER RESULTS

LOCATION	Sample Date	B	T	EPH(10-19)	LEPH	F1	F2	FLR	PHE	ACR	FLT	PYR	D(ah)A
BH14-10	2014 03 11	<0.8	<0.8	3,400	3,400	–	–	4	5.3	0.32	0.042	0.14	<0.1

- LOCATION
- SAMPLE ID
- SAMPLE DATE (YYYY MM DD)
- CONCENTRATION LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES
- VPH OR LEPH concentration greater than FGQG RL F1 OR F2 GUIDELINE (POTENTIAL FGQG EXCEEDANCE), only applied where no F1 OR F2 concentration is available
- CONCENTRATION GREATER THAN THE FGQG TIER 2 RL GUIDELINES (µg/L)
- CONCENTRATION GREATER THAN THE CSR AW STANDARDS (µg/L)
- CONCENTRATION LESS THAT DETECTION LIMIT BUT DETECTION LIMIT IS GREATER THAN GUIDELINES/STANDARDS
- CONCENTRATION GREATER THAN THE CANADIAN DRINKING WATER GUIDELINES (CDWQG) (µg/L)
- CONCENTRATION GREATER THAN THE CSR DW STANDARDS (µg/L)

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. OTHER HYDROCARBON CONSTITUENTS WERE ANALYZED FOR SAMPLES COLLECTED FROM VARIOUS LOCATIONS AND WERE LESS THAN THE APPLICABLE STANDARDS/GUIDELINES. ONLY THE CONFIRMED CONTAMINANTS OF CONCERN ARE SHOWN ON THE DRAWING.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2018-03-29	ISSUED TO CLIENT	PES	CS
1	2017-09-07	ISSUED TO CLIENT AS DRAFT	PES	CS
0	2017-07-27	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **GROUNDWATER ANALYTICAL RESULTS - HYDROCARBONS**

DWN BY: PES | SCALE: 1:800 | DATE: 2017-07-18 | DWG No: 636200-905 | REV.: 2

CHK'D: CS | PLOT: 20180315.1755 | CADFILE: 636200R16

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R16.DWG

BH113M	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH113M (2006)	2006 08 20	5.9	–	64.4	–	–	–	5,050	–	–	–	–	–	–
BH113M (2007)	2007 08 22	4.01	–	70	7	<50	1	4,470	<0.2	1	–	<1	<1	<5
GR71	DUP. OF ABOVE	4.21	–	71.9	6	<50	1	4,520	<0.2	2	–	<1	<1	**7,000**
BH113M (2008)	2008 10 06	2.27	–	60.9	–	–	–	3,100	–	–	–	–	–	–
GR81	DUP. OF ABOVE	2.44	–	60.6	–	–	–	3,300	–	–	–	–	–	–
BH113M (2009)	2009 10 19	1.65	–	80.1	7	<50	0.9	2,970	<0.05	3.6	**8.8**	<1	<1	9
BH113M (2010)	2010 09 08	1.3	–	77.4	<5	<30	<0.300	2,400	0.124	<1	**8.7**	<1	<10	<5

BH14-15	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-15-GW01-AD05	2014 03 10	10	70	67.2	<6	**2,090**	**121**	8,830	<0.02	1.21	**8.2**	<0.2	<10	5.5
BH14-15A-GW01-AD05	DUP. OF ABOVE	11	70	67.8	6.3	**2,090**	**123**	8,780	0.069	1.56	**8.2**	<0.2	<10	15
BH14-15-GW2-AD05	2014 08 14	12	–	–	65.5	**2,670**	**58.9**	9,920	<0.02	1.1	6.8	<0.2	7.4	7.4
BH14-A-GW2-AD05	DUP. OF ABOVE	12	–	–	10	**2,370**	**55.5**	9,730	<0.02	0.42	7.1	<0.2	<10	6
MW14-15-141029	2014 10 29	6.6	–	–	<3	**1,540**	**55.6**	4,960	<0.01	0.31	7	<0.1	<5	<5
MW14-A-141029	DUP. OF ABOVE	6.6	–	–	6	**1,490**	**53.4**	4,990	<0.01	0.25	7.3	<0.1	<5	<5

BH14-18	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-18-GW01-AD05	2014 03 13	11	98	68	<6	**1,110**	**122**	7,680	<0.02	1.16	**9**	<0.2	<10	6.2
BH14-18-GW2-AD05	2014 08 17	10	–	–	6.3	**2,180**	**73.4**	6,900	<0.02	0.27	**8.4**	<0.2	<10	<10
MW14-18-141029	2014 10 29	12	–	–	3.1	**2,850**	**70.4**	7,030	<0.01	<0.2	7.7	<0.1	<5	<5
BH14-18-GW03-AD05	2015 09 28	19	97	59.0	16.3	**1,700**	**62.5**	7,510	<0.010	<0.20	7.6	<0.10	<5.0	5.5

BH14-12	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-12-GW01-AD05	2014 03 09	65	81	69.9	<6	<10	10.8	36,000	0.027	1.38	**9.1**	<0.2	<10	5.3
BH14-12-GW2-AD05	2014 08 17	36	–	–	5.9	24.3	8.5	23,700	**0.617**	1.38	7.9	0.1	<10	5.3
MW14-12-141101	2014 11 01	72	–	–	5.8	24.3	7.4	41,500	0.022	0.3	**10.1**	<0.1	<5	<5

BH14-10	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-10-GW01-AD05	2014 03 11	**130**	64	**130**	<6	**2,900**	**179**	107,000	<0.02	1.4	**14.1**	0.13	<10	6.1
BH14-10-GW2-AD05	2014 08 13	110	–	–	6.6	**1,870**	**115**	66,600	0.019	0.48	**8.2**	<0.2	<10	6.2
PUMP15T	2014 08 14	110	–	–	–	–	–	–	–	–	–	–	–	–
MW14-10-141030	2014 10 30	96	–	–	<3	**1,370**	**90.8**	57,500	0.026	0.44	**9.1**	<0.1	<5	<5
BH14-10-GW03-AD05	2015 09 28	120	92	55.8	13.9	**801**	47.2	52,700	<0.010	0.32	7.1	<0.10	<5.0	<5.0
MW14-10-170618	2017 06 18	110	–	**109**	<2	**404**	**271**	34,700	0.15	<0.2	**10.8**	<0.5	1.1	4

BH13-08	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH13-08-GW01-AD05	2014 03 11	84	98	73.2	<6	22	4.1	59,700	0.024	1.22	10	0.3	<10	5
BH13-08-GW2-AD05	2014 08 17	75	–	–	22.4	114	5.8	46,300	<0.02	0.27	**8.4**	0.14	<10	7.8
MW13-08-141101	2014 11 01	98	–	–	4.5	80.8	4.9	58,000	<0.01	<0.2	**9.3**	0.17	<5	<5

BH13-06	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH13-06	2013 10 29	**830**	–	–	3.2	**3,790**	**281**	**204,000**	<0.02	0.3	**17.8**	<0.2	<10	<10
BH13-06-GW2-AD05	2014 08 13	71	–	–	32.9	**1,720**	**142**	44,800	0.017	0.85	**8.7**	<0.2	<10	6.1
MW13-06-141030	2014 10 30	87	–	–	<3	**2,130**	**127**	51,400	<0.01	<0.2	10	<0.1	<5	<5
BH13-06-GW03-AD05	2015 09 28	120	86	57.5	13.4	**1,080**	**80.1**	54,700	<0.010	<0.20	**9.0**	<0.10	<5.0	13.4
MW13-06-170612/13	2017 06 12/13	**187**	–	**161**	10	**2,760**	**200**	66,900	0.03	0.2	**13.2**	<0.5	1.7	5

BH14-26	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-26-GW01-AD05	2014 03 13	**170**	110	75.1	<6	<10	18	117,000	0.043	1.37	**9.3**	<0.2	<10	5.5
BH14-26-GW2-AD05	2014 08 17	110	–	–	**156**	**652**	**192**	74,200	0.049	4.2	**9.2**	<0.2	7.2	7.6
MW14-26-141101	2014 11 01	**190**	–	–	<3	7.5	**130**	69,900	0.048	0.33	**9.5**	<0.1	<5	<5
BH14-26-GW03-AD05	2015 10 01	**130**	85	65.1	9.1	9.1	24.8	75,300	0.026	0.27	**8.6**	<0.10	<5.0	<5.0

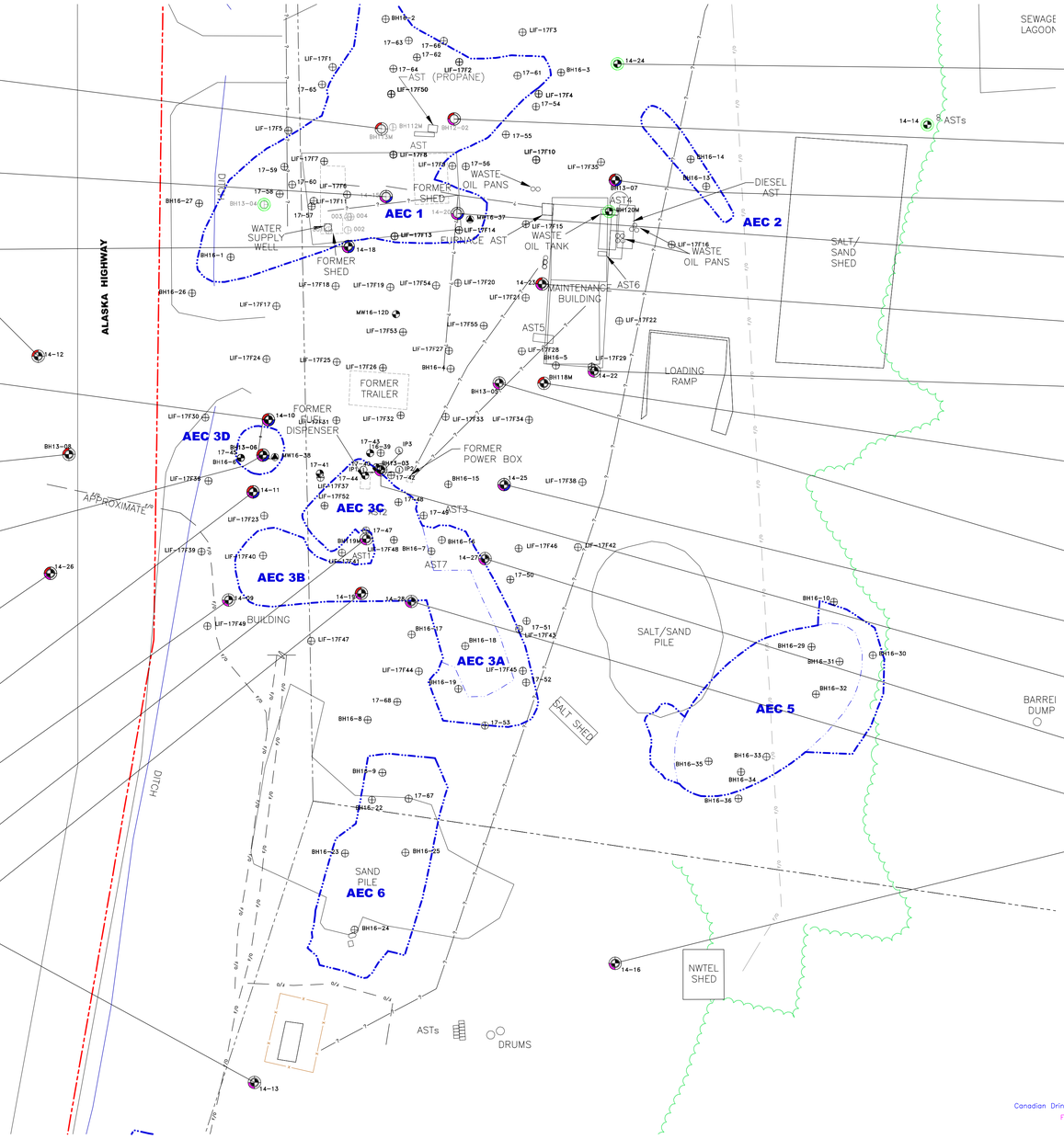
BH14-11	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-11-GW01-AD05	2014 03 10	**130**	71	94.4	<6	**3,010**	**127**	76,900	<0.02	1.34	**10.4**	<0.2	<10	6.2
BH14-11-GW2-AD05	2014 08 14	90	–	–	23.4	**1,600**	**103**	54,100	<0.02	0.89	**8.4**	<0.2	<10	7.4
MW14-11-141030	2014 10 30	**160**	–	–	14.6	**1,300**	**78.5**	62,900	0.011	0.46	**9.1**	<0.1	<5	6
BH14-11-GW03-AD05	2015 09 28	**140**	93	62.0	14.6	**948**	**62.9**	65,900	<0.010	<0.20	**9.7**	<0.10	<5.0	<5.0
MW14-11-170618	2017 06 18	**144**	–	**208**	6	**3,600**	**378**	71,700	0.03	0.5	**11.7**	<0.5	1.1	5

BH14-09	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-09-GW01-AD05	2014 03 12	**170**	100	72.2	<6	7.6	**115**	108,000	0.064	1.28	**8.8**	0.1	<10	5.7
BH14-09-GW2-AD05	2014 08 18	**170**	–	–	16.2	291	**77.7**	105,000	0.034	0.74	7.4	<0.2	<10	<10
MW14-09-141031	2014 10 31	**150**	–	–	3.4	185	**81.8**	121,000	0.023	<0.2	8	<0.1	<5	<5
BH14-09-GW03-AD05	2015 10 01	**140**	84	63.3	14.6	16.8	36.6	84,600	0.098	0.49	7.8	<0.10	<5.0	<5.0

BH119M	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH119M (2009)	2009 10 19	**191**	–	65.8	12	<50	**53**	109,000	0.05	<0.5	6.8	<1	1	<5
BH119M (2010)	2010 09 08	**214**	–	64	<10	<30	10.2	121,000	0.0660	<2	<10	<0.500	<10	<5

BH14-19	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-19-GW01-AD05	2014 03 10	120	82	73.5	5	30.6	33.6	78,300	0.03	1.57	7.8	0.14	<10	5.4
MW14-19-141031	2014 10 31	**190**	–	–	3.5	11.2	25.5	109,000	0.038	0.47	**8.3**	<0.1	<5	6.3

BH14-13	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-13-GW01-AD05	2014 03 10	2	86	64.9	<6	<10	<2	2,470	<0.02	1.12	7.2	**2.83**	<10	5.5
BH14-13-GW2-AD05	2014 08 18	35	–	–	4.3	20.5	<2	2,220	<0.02	1.46	7.1	**1.78**	<10	<10
MW14-13-141031	2014 10 31	1.3	–	–	4	7.4	<1	2,630	<0.01	0.3	7.9	**1.32**	<5	<5



BH14-24	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-24-GW01-AD05	2014 03 11	74	100	78.2	3.3	5.6	**136**	16,800	0.081	1.31	7.7	0.35	<10	7.7
BH14-24-GW2-AD05	2014 08 16	11	–	–	10.9	20.6	2.1	7,300	0.018	**7.68**	**8.1**	0.28	<10	6.1
BH14-C-GW2-AD05	DUP. OF ABOVE	11	–	–	5.9	17	2	7,000	0.02	1.22	**8.8**	0.34	<10	<10
MW14-24-141030	2014 10 30	9.7	–	–	3.1	<5	<1	5,640	0.015	<0.2	7.7	0.27	<5	<5
MW14-C-141030	DUP. OF ABOVE	8.9	–	–	3.5	<5	<1	5,290	0.015	0.3	7.4	0.3	<5	<5

BH12-02(MW)	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
MW12-02-AD05	2012 10 24	5.31	100	76.8	3	**1,390**	29	3,400	<0.01	<0.2	7.8	<0.1	**137**	1
MW12-A-AD05	DUP. OF ABOVE	5.52	**140**	77.8	2	**1,390**	29	3,340	<0.01	<0.2	**8.1**	<0.1	**131**	<1
MW12-02-AD05	2013 03 14	12	–	–	3	**1,800**	11	5,740	0.01	0.3	**12.3**	<0.1	1.6	14
MW12-B-AD05	DUP. OF ABOVE	12	–	–	3	**1,700**	11	5,670	<0.01	0.4	**11.8**	0.2	1.8	10
MW12-02-AD05	2013 07 26	11	**150**	95.1	3.7	19	29.1	7,570	0.039	1.81	**10.1**	0.42	<10	**71.3**

BH13-07(MW)	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
JM#13-07-AD05	2013 10 01	87	**230**	–	4.3	114	**1,760**	27,300	0.058	1.19	**10.8**	0.42	<10	10.6
BH13-07	2013 10 29	120	–	–	<6	<10	**264**	43,800	0.130	0.22	**9.9**	0.33	<10	<10

BH14-20	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-20-GW01-AD05	2014 03 10	17	65	64.9	<6	**7,110**	**440**	11,800	0.022	0.92	**10.4**	<0.2	<10	6.8
BH14-20-GW2-AD05	2014 08 14	10	–	–	<6	133	5.6	7,630	<0.02	0.45	**9.8**	<0.2	<10	<10
MW14-20-141031	2014 10 31	22	–	–	3.7	**2,180**	**128**	11,300	<0.01	<0.2	**8.2**	<0.1	<5	<5
BH14-20-GW03-AD05	2015 10 01	20	94	55.9	10.5	**1,540**	**101**	11,000	<0.010	0.24	5.8	<0.10	<5.0	14.4

BH14-23	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-23-GW01-AD05	2014 03 11	**170**	95	73.5	<6	**1,200**	**774**	83,000	0.077	1.06	**8.1**	0.32	<10	6.2
BH14-23-GW2-AD05	2014 08 15	**180**	–	–	17.5	24.2	12.5	98,600	0.056	2.48	**9.2**	0.25	<10	5.2
BH14-23-141030	2014 10 30	**180**	–	–	4.1	5.2	6.3	77,600	0.041	<0.2	**8.4**	0.32	<5	<5
BH14-B-141030	DUP. OF ABOVE	**180**	–	–	3.1	<5	6.1	73,300	0.039	0.31	**8.1**	0.27	<5	<5

BH14-22	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-22-GW01-AD05	2014 03 11	**180**	110	71.4	4.6	5.4	12.2	125,000	0.028	1.24	**8.6**	1.64	<10	5.9
BH14-22A-GW01-AD05	DUP. OF ABOVE	**190**	110	74.4	3.7	6.3	12.9	128,000	0.029	1.52	**8.6**	0.97	<10	6
BH14-22-GW2-AD05	2014 08 15	**98**	–	–	37	45	<2	69,300	0.018	2.46	6.4	0.99	<10	<10
MW14-22-141030	2014 10 30	**140**	–	–	3	<5	<1	88,700	0.014	<0.2	7.3	0.84	<5	<5

BH11BM	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH11BM (2009)	2009 10 19	**158**	–	60	8	<50	1.2	91,600	<0.05	<0.5	**8.5**	<1	<1	<5
GR82	DUP. OF ABOVE	**160**	–	68.3	11	<50	1.1	92,200	<0.05	<0.5	**8.6**	<1	<1	<5
BH11BM (2010)	2010 09 08	92.7	–	66.1	<10	<30	<0.600	49,500	0.0600	<2	<10	0.690	<10	<5
GR1	DUP. OF ABOVE	92.6	–	65.7	<10	<30	<0.600	51,400	0.0640	<2	<10	0.690	<10	<5
BH11BM (2011)	2011 09 16	**308**	–	65.8	<5	<30	0.87	164,000	0.031	<1	–	<1	15	<5
GR84	DUP. OF ABOVE	–	–	–	<5	<30	0.93	174,000	0.032	<1	–	<1	14	<5

BH13-05	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH13-05	2013 10 29	**800**	–	–	<6	**904**	**183**	119,000	<0.02	<0.4	7.4	<0.2	<10	<10
DUP 1	DUP. OF ABOVE	**800**	–	–	<6	**843**	**182**	115,000	<0.02	0.48	7.6	<0.2	<10	<10
BH13-05-GW2-AD05	2014 08 15	**130**	–	–	3.9	**801**	**78**	83,400	<0.02	**4.81**	7.2	<0.2	<10	<10
BH14-B-GW2-AD05	DUP. OF ABOVE	**130**	–	–	3.2	**808**	**78.4**	85,200	<0.02	0.64	7	<0.2	<10	<10
MW13-05-141030	2014 10 30	120	–	–	<3	**744**	**87.2**	83,100	<0.01	<0.2	7.1	<0.1	<5	<5
BH13-05-GW03-AD05	2015 09 28	40	**88**	70.1	9.3	**376**	**51.1**	23,900	<0.010	<0.20	5.7	<0.10	<5.0	9.4
DUP 1-150928	DUP. OF ABOVE	42	87	67.4	7.5	**387**	49.7	23,800	<0.010	<0.20	<5.0	<0.10	<5.0	<5.0

BH14-25	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-25-GW01-AD05	2014 03 11	70	**84**	67.6	<6	9.9	**222**	42,300	0.283	1.19	7.5	0.15	<10	6.4
BH14-25-GW2-AD05	2014 08 16	65	–	–	9.6	89.2	**207**	39,700	0.052	**5.19**	8	<0.2	<10	<10

BH13-03(MW)	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
MW13-03-AD05	2013 03 14	**170**	–	–	6	**600**	**625**	93,100	<0.05	<2	8	<1	2	13
MW13-C-AD05	DUP. OF ABOVE	**144**	–	–	4	**600**	**627**	92,600	0.0600	<2	8	<1	2	6
MW13-03-AD05	2013 07 26	**800**	**89**	65.6	4.2	188	10.5	109,000	<0.02	0.52	7.8	0.26	<10	19.8
MW13-C-AD05	DUP. OF ABOVE	**820**	90	63.8	3.5	195	11.2	113,000	<0.02	0.74	6.9	0.21	<10	<10

BH14-27	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-27-GW01-AD05	2014 03 12	11	110	77.7	<6	<10	**371**	12,700	0.028	1.24	6.8	**2.08**	<10	5.6
BH14-27-GW2-AD05	2014 08 15	18	–	–	4.1	7.2	2.4	9,660	<0.02	1.81	7.8	**1.8**	<10	<10
MW14-27-141031	2014 10 31	9.3	–	–	<3	<5	<1	11,000	<0.01	<0.2	6.9	**1.80**	<5	<5

BH14-28	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-28-GW01-AD05	2014 03 12	45	100	77.4	<6	7.2	**202**	37,200	0.033	1.28	7.5	**2.03**	<10	5.7
BH14-28-GW2-AD05	2014 08 16	59	–	–	13.1	20.9	<2	34,900	<0.02	2.83	7.2	**1.78**	<10	5.2
MW14-28-141031	2014 10 31	74	–	–	<3	<5	<1	48,600	<0.01	<0.2	7	**1.97**	<5	<5

BH14-16	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
BH14-16-GW01-AD05	2014 03 09	3.4	67	85.2	5.3	22.7	41.1	7,900	0.022	1.55	5.9	**3.1**	<10	6.5
BH14-16-GW2-AD05	2014 08 19	17	–	–	42.6	53.7	<2	10,100	0.016	1.08	6.3	**2.88**	<10	<10
MW14-16-141031	2014 10 31	3.8	–	–	3.8	20.8	<1	5,040	<0.01	0.34	<5	**2.14**	<5	<5

ALL RESULTS REPORTED IN MICROGRAMS PER LITRE (ug/L)

Cl	CHLORIDE
F	FLOURIDE
SO4	SULPHATE
Al	ALUMINUM
Fe	IRON
Mn	MANGANESE
Na	SODIUM
Cd	CADMIUM
Cu	COPPER
Li	LITHIUM
Se	SELENIUM
Ti	TITANIUM
Zn	ZINC

FEDERAL GUIDELINES

	Cl	F	SO4	SAL	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
Canadian Drinking Water Quality Guidelines (CDWQG)	250	1,500	500	n/a	100	300	50	200,000	5	1,000	n/a	50	n/a	5,000
FGQG Tier 2 Residential Land Use (RL)	120	120	100	n/a	100	300	n/a	n/a	0.37	4	n/a	1	100	30

BC STANDARDS

	Cl	F	SO4	SAL	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
CSR Drinking Water (DW)	250	1,500	500	n/a	9,500	6,500	1,500	200,000	5	1,500	8	10	n/a	3,000
CSR Aquatic Life (AW)	1,500	2,000–3,000	1,280–4,290	15,000	n/a	n/a	n/a	n/a	0.5–4	20–90	n/a	20	1,000	75–2,400

LEGEND

- SUBJECT PROPERTY LIMITS
- LOT BOUNDARY
- FIBER OPTIC LINE
- UNKNOWN UTILITY
- TREE LINE
- FENCE
- REMEDIAL EXCAVATION BOUNDARY (SNC, 2016)
- BOREHOLE
- MONITORING WELL
- INJECTION WELL
- SOIL VAPOUR WELL
- DESTROYED MONITORING WELL
- MONITORING WELL WITH INJECTION WELL CONSTRUCTION
- INJECTION POINT
- FORMER SITE CONFIGURATION
- SITE FEATURE
- GARDEN
- <0.5 CONCENTRATION BELOW DETECTION LIMIT (DL) BUT DL IS GREATER THAN GUIDELINE/STANDARD

0 10 20 30 METRES

LOCATION

BH119M	Sample Date	Cl	F	SO4	Al	Fe	Mn	Na	Cd	Cu	Li	Se	Ti	Zn
		ANALYTICAL GROUNDWATER RESULTS												
BH119M (2009)	2009 10 19	191	65.8	200,000	12	<50	53	109,000	0.05	<0.5	6.8	<1	1	<5

SAMPLE ID

SAMPLE DATE (YYYY MM DD)

CONCENTRATION GREATER THAN THE FGQG TIER 2 RL GUIDELINES (µg/L)

CONCENTRATION LESS THAN OR EQUAL TO THE APPLICABLE STANDARDS/GUIDELINES

CONCENTRATION GREATER THAN THE CSR AW STANDARDS (µg/L)

CONCENTRATION GREATER THAN THE CANADIAN DRINKING WATER GUIDELINES (CDWQG) (µg/L)

CONCENTRATION GREATER THAN THE CSR DW STANDARDS (µg/L)

NOTES

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED PRIOR TO INTRUSIVE WORK. NOT ALL UTILITIES MAY BE SHOWN.
3. OTHER INORGANIC CONSTITUENTS WERE ANALYZED FOR SAMPLES COLLECTED FROM VARIOUS LOCATIONS AND WERE LESS THAN THE APPLICABLE STANDARDS/GUIDELINES. ONLY THE CONFIRMED CONTAMINANTS OF CONCERN ARE SHOWN ON THE DRAWING.

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION
–	–	–

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK
2	2018–03–29	ISSUED TO CLIENT	PES	CS
1	2017–09–07	ISSUED TO CLIENT AS DRAFT	PES	CS
0	2017–07–27	ISSUED TO CLIENT AS DRAFT	PES	CS

SNC·LAVALIN

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

PROJECT LOCATION: FIRESIDE MAINTENANCE CAMP ALASKA HIGHWAY, BC

TITLE: **GROUNDWATER ANALYTICAL RESULTS - INORGANICS**

DWN BY: PES | SCALE: 1:600 | DATE: 2017–07–18 | DWG No: | REV.: 2

CHK'D: CS | PLOT: 20180315.1756 | CADFILE: 636200R16 | **636200-906**

PATH: P:\CURRENT PROJECTS\PWGSC\636200 FIRESIDE\4.0 EXECUTION\4.5 GIS AND DRAWINGS\CAD\636200R16.DWG

Appendix V

Analytical Laboratory Reports (not included in Draft version)

SNC-Lavalin Inc.
#202 - 3440 Douglas Street
Victoria, British Columbia, Canada V8Z 3L5
250.385.5028 250.385.5038
www.snclavalin.com

SNC·LAVALIN

Appendix No.	Appendix Title
B	Coverall Building Specifications - Disassembly and Re-Erection of an Existing Arched Fabric Structure at the Fireside Maintenance Camp at Km 839 on the Alaska Highway, British Columbia, dated December 15, 2017 (Scouten Engineering)

Scouten
ENGINEERING

Thinking beyond.

December 15th, 2017
Project: 427-03

Meredith Guest P.Eng.
Senior Project Engineer
SNC-Lavalin
890 Crace Street
Nanaimo, BC
V9R 2T3

Re: Disassembly and Re-Erection of an Existing Arched Fabric Structure at the Fireside Maintenance Camp at Km 839 on the Alaska Highway, British Columbia

Dear Meredith:

At your request we visited the Fireside Maintenance Camp at Km 839 on the Alaska Highway on October 12th, 2017. The site visit was conducted by Mr. Matthew Roche on behalf of Scouten Engineering, and Ms. Meredith Guest of SNC Lavalin was on site during the visit.

The objective of the site visit was to collect information on an existing arched fabric structure, including an assessment of its current condition, to aid the preparation of an instruction procedure for its disassembly, storage, and re-erection. This work forms part of the overall environmental remediation of the maintenance camp, which includes the replacement of contaminated ground material. We understand there is an area of contaminated ground below part of the fabric building, necessitating its temporary removal.

Following the site visit, where the structure was examined, measured, and documented we obtained some assembly information from the original building manufacturer, Winkler Structures, and reviewed how the structure can be successfully disassembled and re-erected.

From our visit, it appears the primary use of the arched fabric building is storage of equipment and plant machinery (see Photo 2), including vehicles.

The structure is a single tube 'Barn Structure,' consisting of a series of identical, regularly spaced steel arches, each consisting of a single curved metal tube, which support fabric cladding. The building is approximately 40 feet wide. (See Photo 1.) The structure is comprised of 13 tube arches, spaced at 5 feet on centre. (See Photo 3). The arches support a light weight fabric cladding, which is tensioned using straps and ratchets to remove sagging and the potential for water ponding on the roof.

There is a large, 20 feet wide fabric overhead door at the entrance to the structure, at the south gable end. There is also a rigid man door in the south gable end. The north end of the structure meets with the south face of an existing pre-engineered building. The two structures are nominally sealed together using expanding foam.

201 – 1968 Queensway Prince George BC V2L 1M2
info@scoutenengineering.com T 250.562.7050

The Barn Structure bears on, and is anchored to, a two course high concrete lock block perimeter wall. The tube arches are connected to the top of a lock block built wall with 4 mechanical anchors per arch foot. The perimeter wall likely bears directly on the ground.

Inside the building, the floor is made up of gravel material that appears to be prevalent across the camp site.

During our site visit we did not record any significant damage to the barn structure. It appeared to be in a good condition.

Due to the lightweight nature of the existing fabric building, and lock block foundation construction, we confirm it is feasible and likely relatively straightforward to disassemble, and then re-erect the building.

The arched fabric structure should be carefully dismantled using the procedure described in the attached drawings 427-03-S-201 and S-202. The proposed procedure also references the building manufacturer's assembly instructions, a copy of which is also attached to this letter report.

Please find below a brief written summary of how the building should be dismantled:

Stage 1. Remove the gable end fabric from each end of the building.

Stage 2. The gable end steel framing should be unscrewed and removed.

Stage 3. The fabric ratchets should be loosened in the manner described on drawing S-201 to allow the tarp to be de-tensioned and disconnected.

Stage 4. The fabric cladding shall be rolled sideways over the arches, to land on the ground on one side the building. Metal pipes along each side of the fabric should be slid out of their respective pockets and the fabric folded carefully. Care should be taken avoid tearing or otherwise damaging the fabric.

Stage 5. Temporary cross bracing should be installed between the two northern most arches (closest to the pre-engineered building.) This bracing can be in the form of tie belts or wire cables.

Stage 6. The first arch to be de-erected should be lifted off its baseplates and laid on its side, away from the building. Removal of these arches should leave the base connection in place on its corresponding lock block.

Alternatively, the arches could be unbolted from the lock blocks, and anchor bolts trimmed flush to the surface of the lock block. This alternative method of arch removal will require installing new adhesive anchor bolts into the lock blocks during re-erection.

Stage 7. The remaining arches should be removed in a similar manner working back to the pair of braced arches closest to the pre-engineered building. Frames should be marked in their existing order so that they can be re-erected in the same positions.

Stage 8. The final two arches should be removed together, and disassembled on the ground.

Stage 9. Following the successful removal of the superstructure, the lock blocks should be marked, have their locations, including their elevation, recorded in an accurate survey, and temporarily relocated out of the way of planned environmental remediation work.

Storage of the lock blocks and superstructure components should be in an area free from regular camp traffic and equipment use. It is also important that the fabric cladding and steel arches are stored in a dry environment, to prevent any rust or frost damage. The fabric coverall material should be folded as per the Winkler Structures specifications, to be sourced by the disassembly contractor, and stored in a dry safe place.

Due to the use of the building to store highway maintenance machinery and vehicles, it may be worth considering including the construction of a new ground bearing floor slab when rebuilding the structure. Please see drawings S100-101, C101 and S-202 to S-205, which shows what this floor slab, and associated floor drainage, could look like.

Following the successful installation of a new ground bearing slab, the original structure should be re-assembled in accordance with the attached Winkler Structures Instruction Manual, and Scouten Engineering drawings.

In addition to the standard assembly instructions provided by the building manufacturer we recommend the following:

- We understand from the building manufacturer that steel components may be screwed back together using the same self-tapping screw details used during the original building construction.

- New fasteners such as self-tapping screws should match the sizes noted in the standard assembly instructions, but installed in new holes wherever possible.

- Building elements damaged during disassembly and re-erection work should be either; replaced, or if the damage is slight, reviewed by either the project structural engineer, or the building manufacturer (Winkler Structures.)

- During re-assembly the fabric building should be re-sealed to the existing pre-engineered maintenance building using expanding foam, as existing.

We also note that the existing ground surface around the fabric building general slopes downwards to the south, i.e. away from the existing pre-engineered building. Due to the ground remediation work that will follow the removal of the fabric building, a re-grading plan should be developed as part of the project. Just let us know if you would like us to either; develop a grading plan, or review and comment on site grading information produced by others.

The disassembly and re-erection advice given in this letter has been developed on the basis of the existing pre-engineered maintenance building remaining in place. We understand there is some soil contamination below the maintenance building, but since the contamination is restricted to a zone below one side of the building, the building can remain in place. We have previously recommended that it is feasible for contaminated ground material to be excavated and replaced with clean ground material from around the existing building foundations, demolishing and repairing parts of the foundations as required.

Please let us know if you have any questions or comments on the condition, disassembly, and re-erection of the fabric building at this stage, or would like to review how this part of the environmental remediation of the Fireside highway maintenance camp develops further.

Sincerely,

Prepared by:

SCOUTEN ENGINEERING
Matthew Roche – Structural engineer
mroche@scoutenengineering.com

Reviewed by:

SCOUTEN ENGINEERING
Ben Crimp P.Eng., MIStructE. – Senior Structural Engineer
bcrimp@scoutenengineering.com

Attach: Photographs
Single Tube Barn Instructions, from Winkler Structures
Scouten Engineering Drawings 427-03-S100-101, C-101, and S-201 to S-205

Photo1: Front entrance to the structure

Photo 2: Interior storage

Scouten ENGINEERING
201 – 1968 Queensway Prince George BC V2L 1M2
info@scoutenengineering.com T 250.562.7050

PROJECT : 427-03 DATE: December 15th, 2017

LOCATION: Fireside, km 839 Alaska Highway, BC

CLIENT: SNC-Lavalin

PROJECT: Fireside – Relocation of Building

BY: MR PAGE: 1 of 5

Photo 3: View of the interior tube structure

Photo 4: Connection in a typical corner of the building, to a top lock block.

Photo 5: West elevation of fabric building with sloping ground

Photo 6: East elevation of fabric building

Photo 7: Standard base connection of fabric building

Photo 8: Front entrance to building.

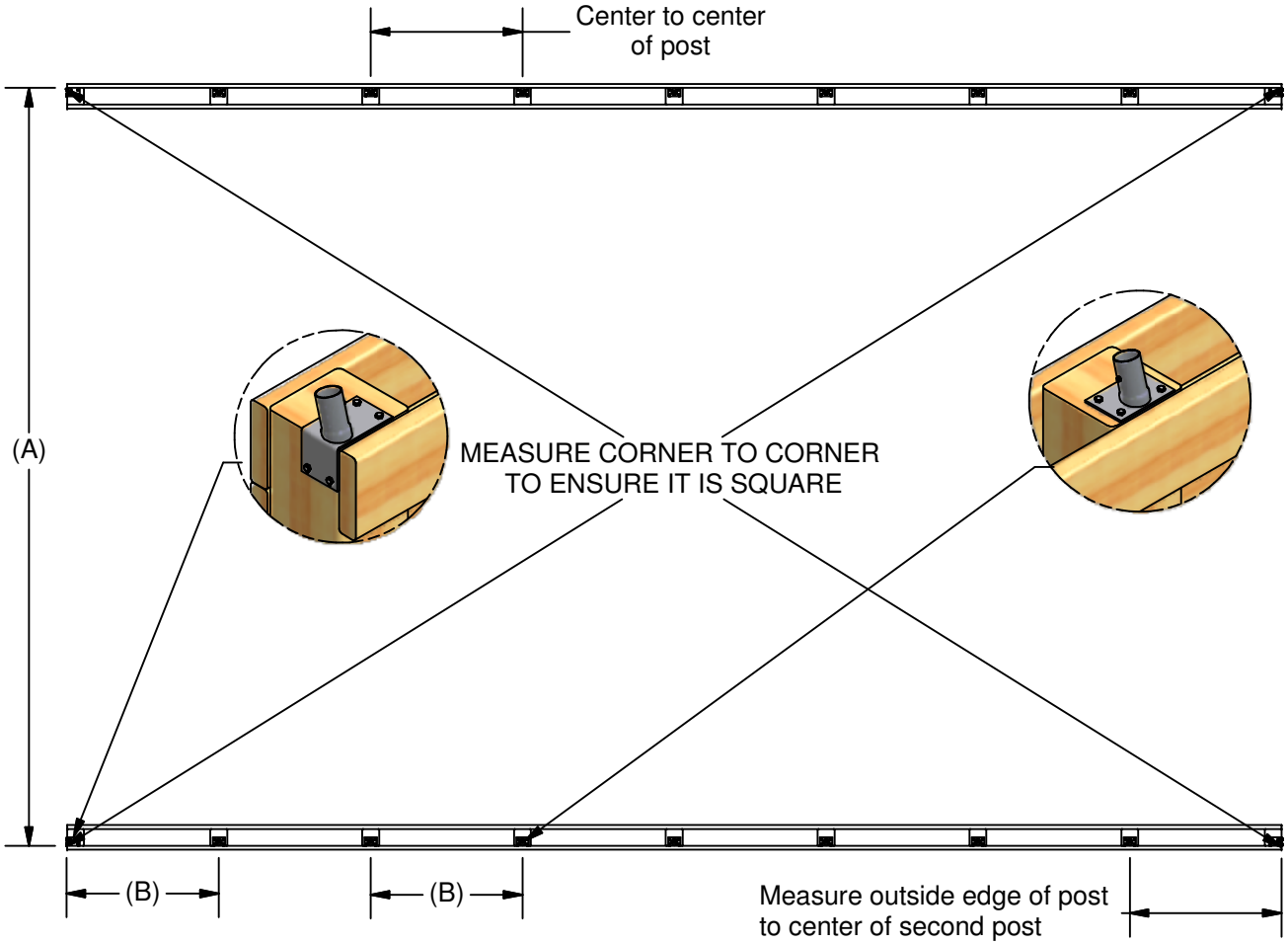
Photo 9: End gable connection to adjacent building.

SINGLE TUBE BARN INSTRUCTIONS

1. Peg out the size of your building. Make sure it is the correct length and that it is square (within 2"). Mark locations of bases. Spacing is measured from the outside of corner post to the center of the second post. Both end bays are measured the same way. The distance between all the center bases is determined by the rafter spacing.

2. Level the posts and make sure they are in a straight line. Check to see that the top of the posts are straight and that all the tops are level to ensure the rafters will stand at the same height. The width of your building is measured to the outside of the posts as shown.

3. Bolt the base plates to the posts or concrete wall as shown below.



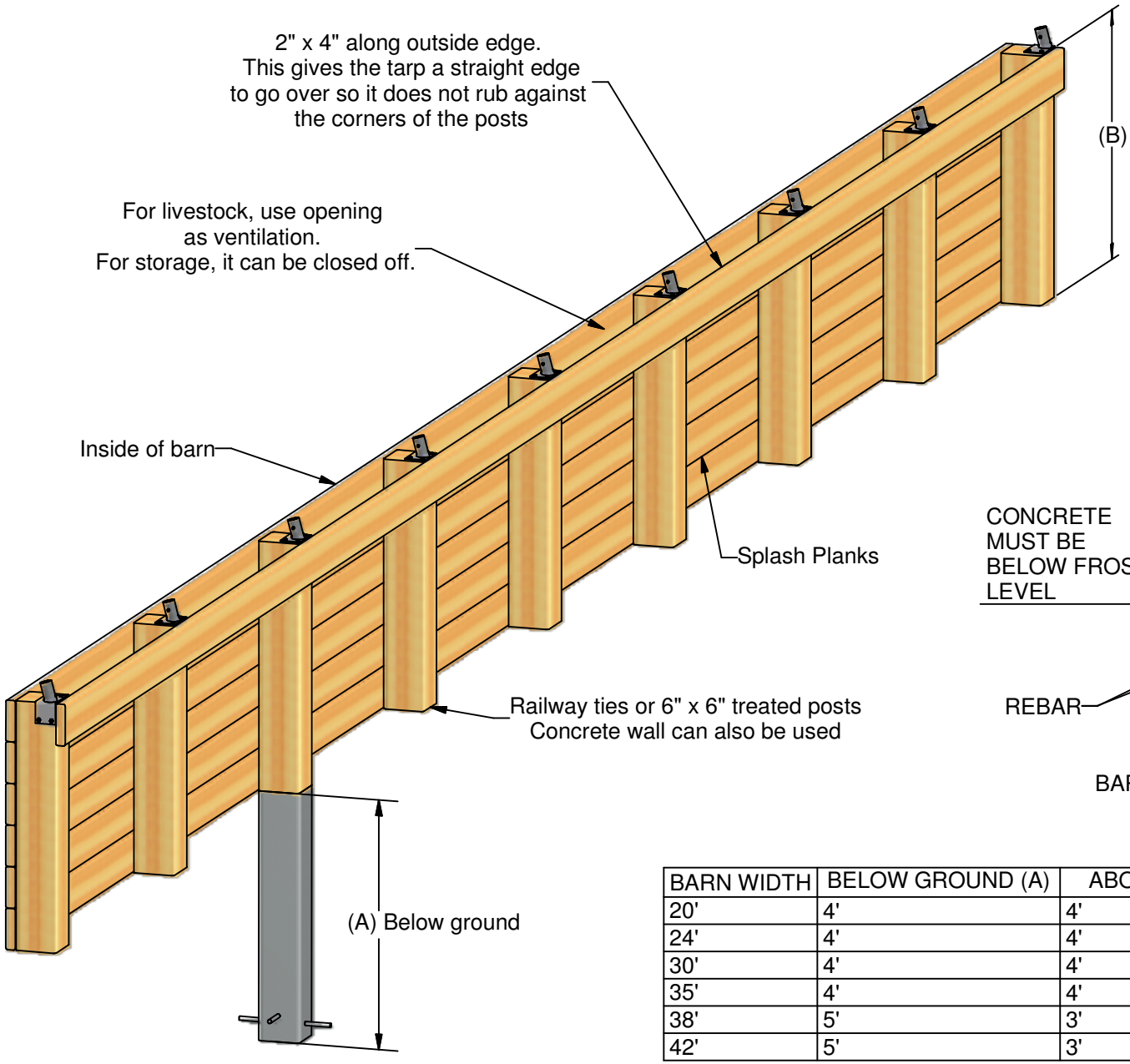
BARN SIZE AND RAFTER SPACING	
BARN WIDTH (A)	RAFTER SPACING (B)
20'	5' Or 6'
24'	5' Or 6'
30'	5' Or 6'
35'	5'
38'	5'
42'	5'

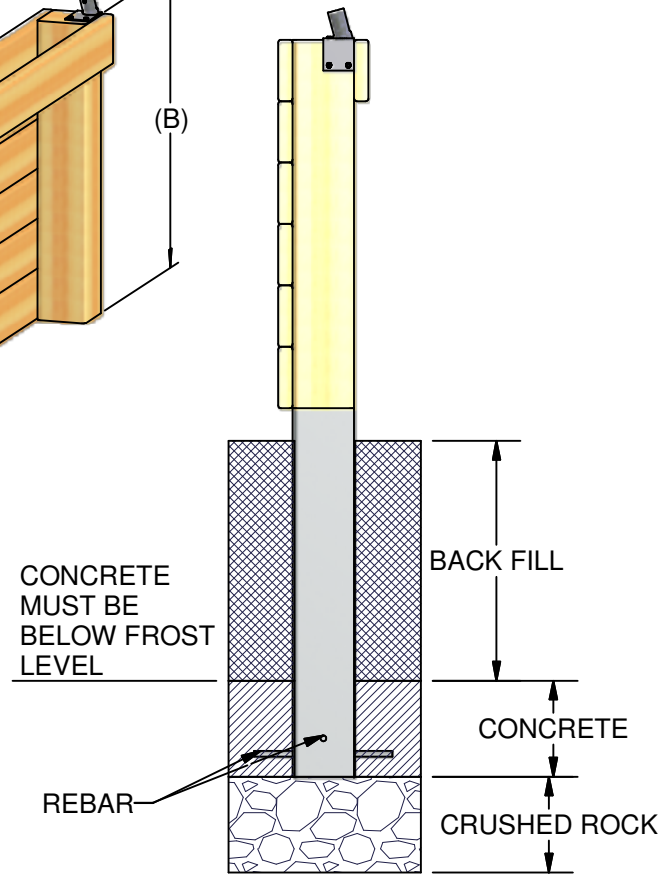
Notes:

1 The end rafter bases are placed on the outside corners of the corner post or wall

2 The second rafter bases installed in the center of the second post

3 The center bases are measured center to center





BARNS IN HIGH WIND AREAS

BARN WIDTH	BELOW GROUND (A)	ABOVE GROUND (B)
20'	4'	4'
24'	4'	4'
30'	4'	4'
35'	4'	4'
38'	5'	3'
42'	5'	3'

1. Rafters can be assembled on the ground. A tee connector is used between each rafter section and secured with #12 screws.
The number of rafter sections is determined by the size of the building. Once assembled the rafter can be lifted into place and secured to the base.

2. The second rafter is assembled the same way. Replace Tee connectors with Cross connectors.

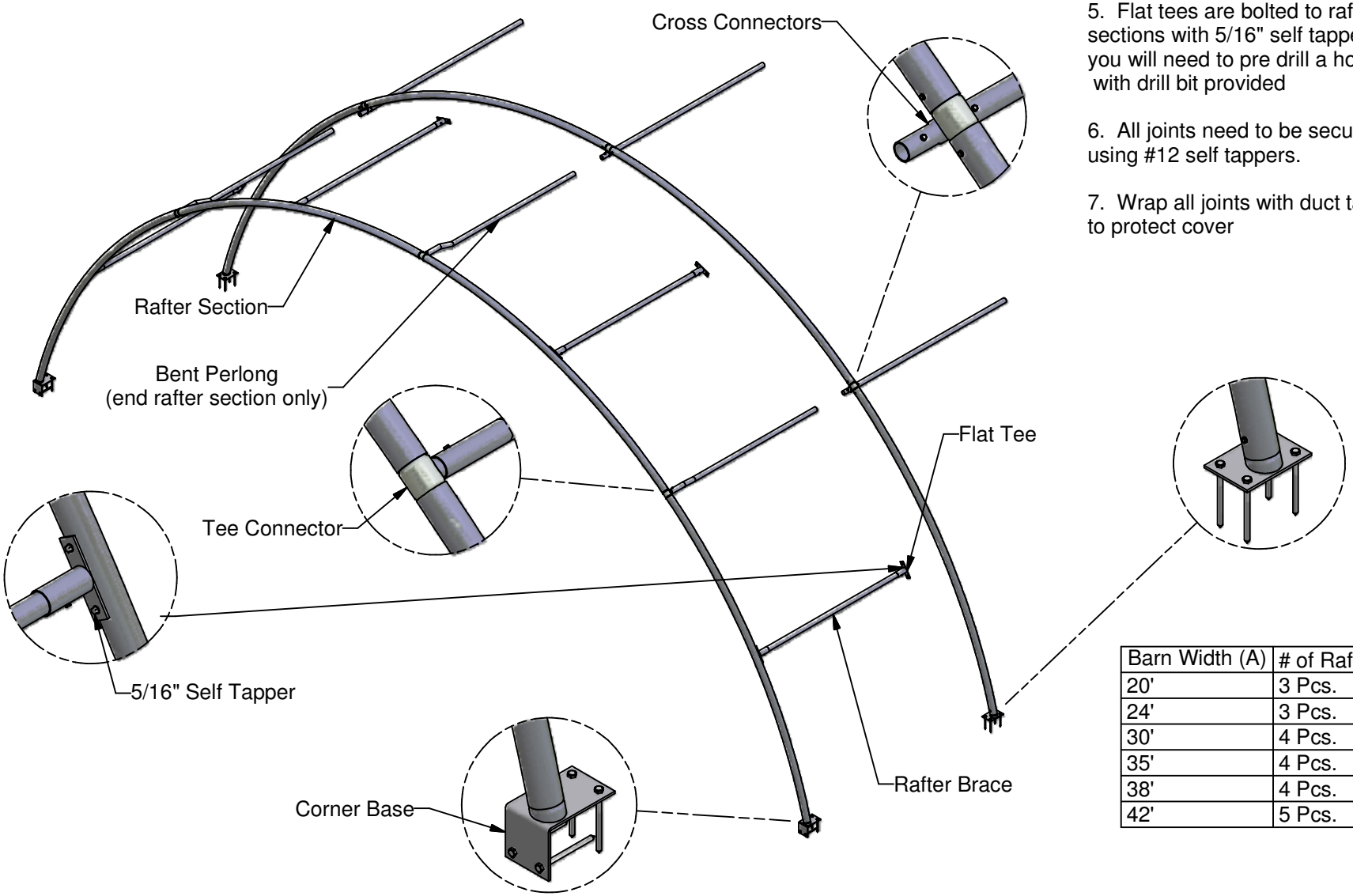
3. Bent perlongs are attached from the tee connectors on the first rafter to the cross connectors of the second rafter,
This will hold the first two rafters together. (the last two rafters are the same.)

4. For extra strength rafter braces are attached between the first and second rafters. They are attached to the center of each rafter section with flat tees.

5. Flat tees are bolted to rafter sections with 5/16" self tappers you will need to pre drill a hole with drill bit provided

6. All joints need to be secured using #12 self tappers.

7. Wrap all joints with duct tape to protect cover



Barn Width (A)	# of Rafter sections
20'	3 Pcs.
24'	3 Pcs.
30'	4 Pcs.
35'	4 Pcs.
38'	4 Pcs.
42'	5 Pcs.

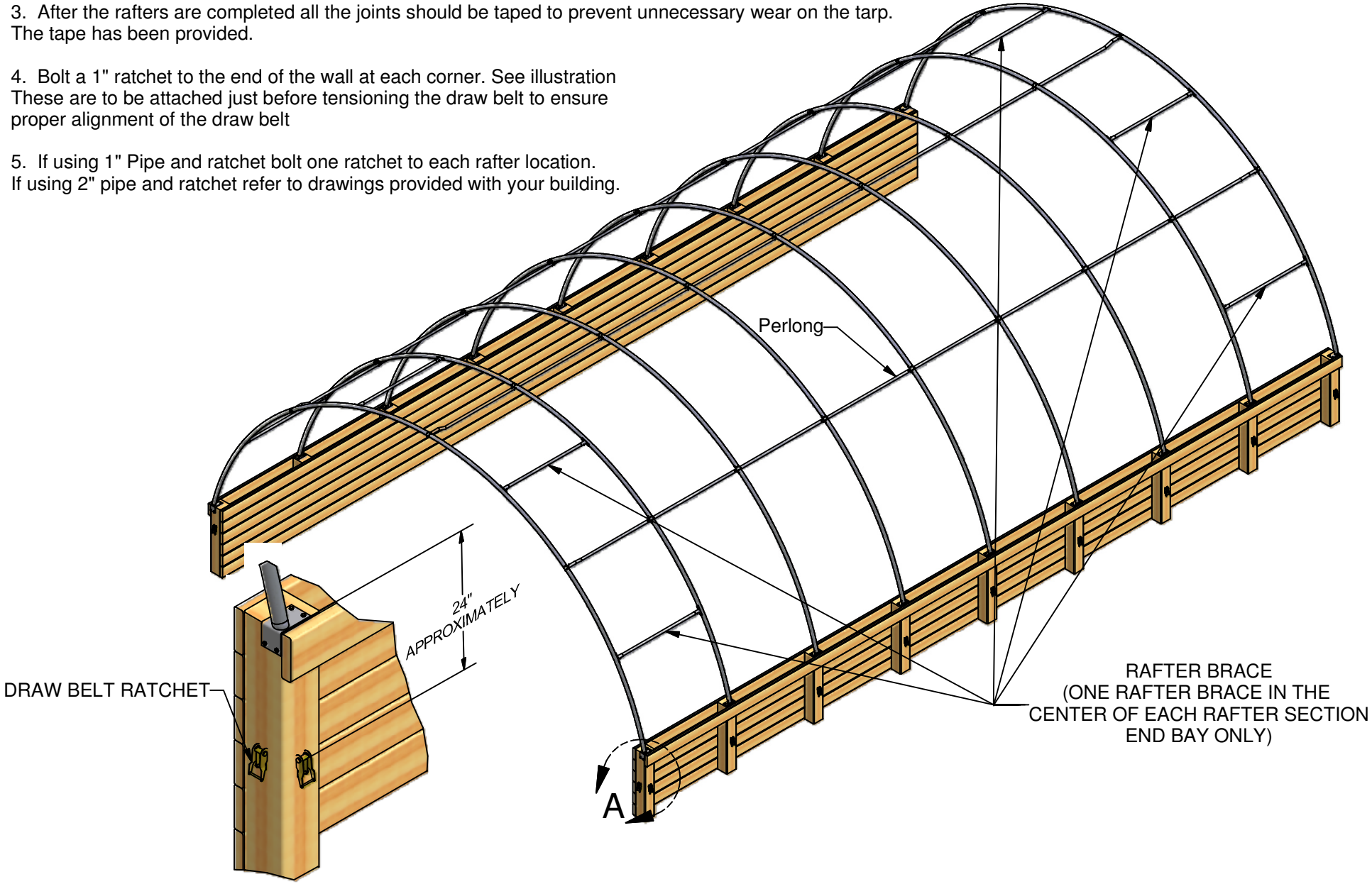
1. The center rafters are assembled the same as the second rafter. A perlong is attached between each cross. The perlongs support all center rafters.

2. We recommend that all the joints in the first two rafters be screwed together with #12 screws provided. We have supplied enough screws to fasten all the joints. The rest of the joints are not manditory but it will strenghten the barn.

3. After the rafters are completed all the joints should be taped to prevent unnecessary wear on the tarp. The tape has been provided.

4. Bolt a 1" ratchet to the end of the wall at each corner. See illustration These are to be attached just before tensioning the draw belt to ensure proper alignment of the draw belt

5. If using 1" Pipe and ratchet bolt one ratchet to each rafter location. If using 2" pipe and ratchet refer to drawings provided with your building.



TARP INSTALLATION

1. Roll out the tarp along the length of the building. Assemble pipe on the ground using #12 screws and wrap each joint with duct tape before sliding into the pocket. (See illustration)

2. The pipe is inserted into the pipe pocket in the side of the tarp. Loop belts over pipe at each cut out in the pocket. Secure belts and ratchets together loosely

3. Tie at least 3 ropes to the tarp with weights to the side that will go over the barn (3 ropes for 50' long building). Throw the weighted ropes over the rafters and slowly pull the tarp over. This should **NOT** be attempted on a windy day.

4. Once tarp is over, secure ratchets and belts on the other side. Do not tighten completely until cover has been stretched the length of the building.

5. Center the tarp on the barn. Now you can attach the drawbelt to the ratchets on all 4 corners. See page 4, #4 This will hold the tarp in place while you are installing the high tension

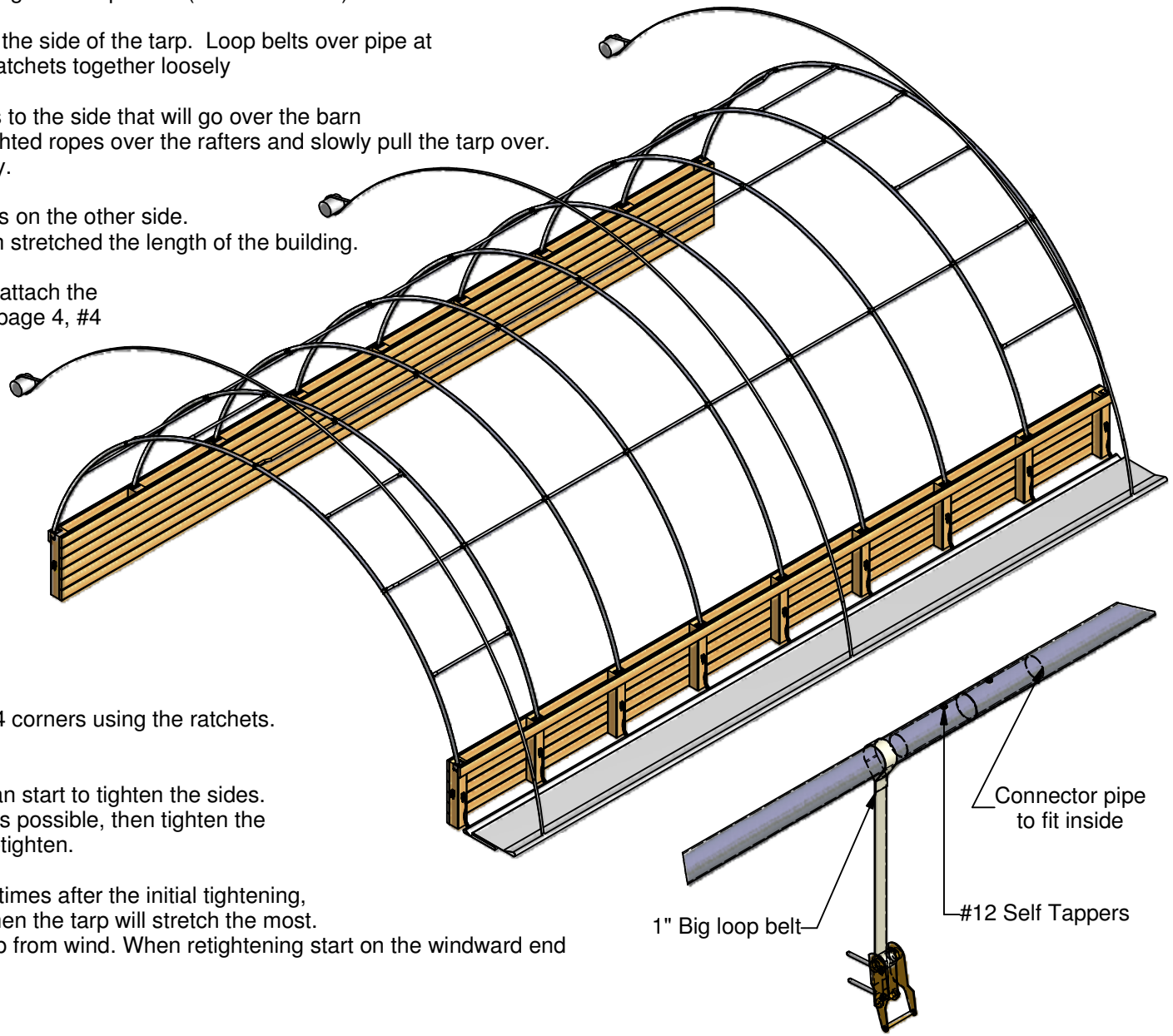
6. You may want to loosen or undo the drawbelt on the side you are working on. Starting on the windward end slide plastic conduit in to the pocket joining them together. When conduit is installed secure ratchets around end rafter to high tension pocket. See page 6

7. Once ratchets are in place stretch tarp the length of the building first before tightening side ratchets.

8. Now you can retighten the drawbelt on all 4 corners using the ratchets. They can be fairly tight (do not over tighten).

9. Once the ends have been tightened you can start to tighten the sides. Tighten one side moderately and as straight as possible, then tighten the other side. Lastly return to the first side and retighten.

10. The tarp should be retightened two more times after the initial tightening, the last time being on a warm summer day when the tarp will stretch the most. This will prevent unnecessary wear on the tarp from wind. When retightening start on the windward end and then the other end and lastly the sides.



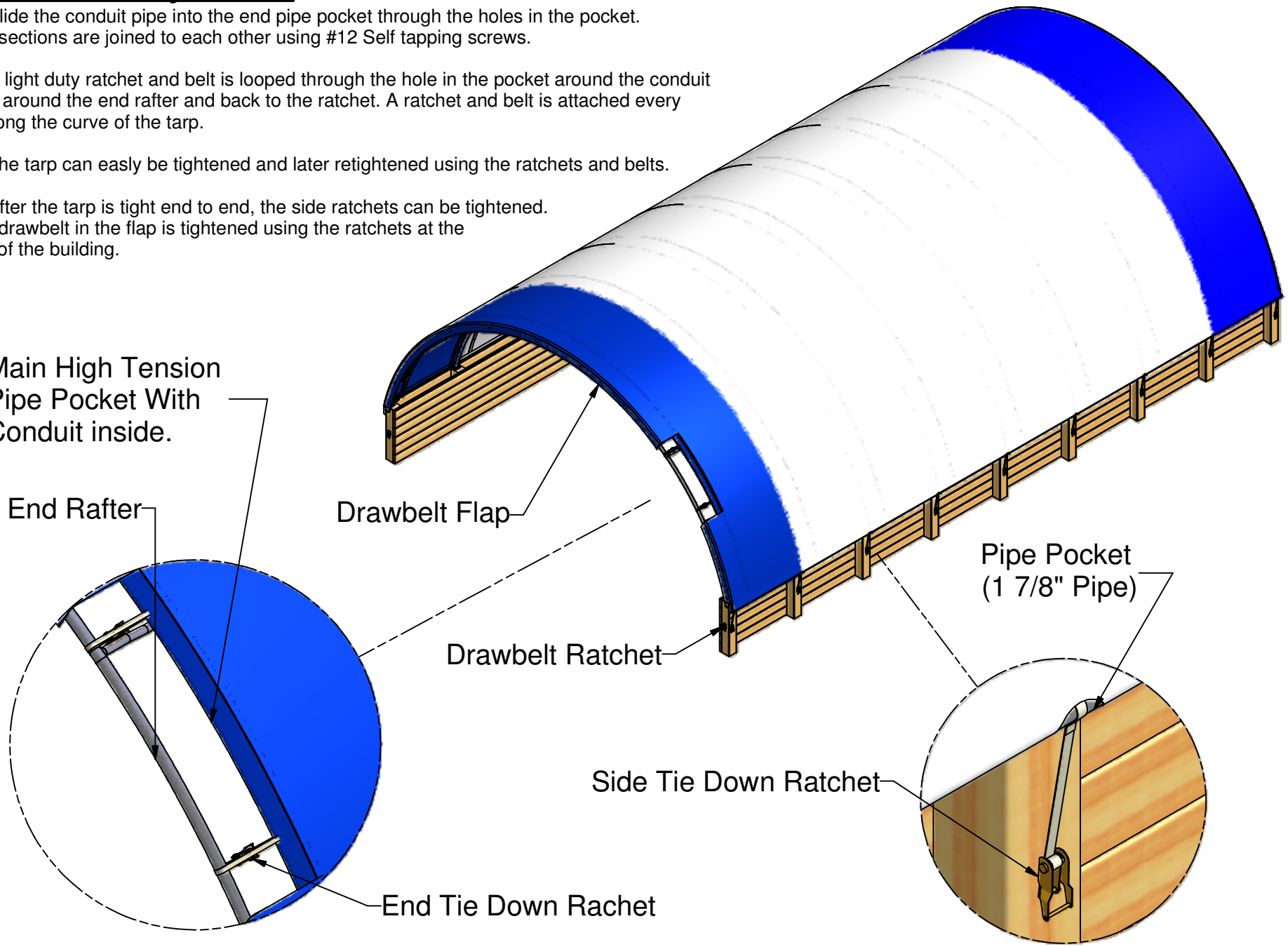
Ratchet System

1. Slide the conduit pipe into the end pipe pocket through the holes in the pocket. The sections are joined to each other using #12 Self tapping screws.

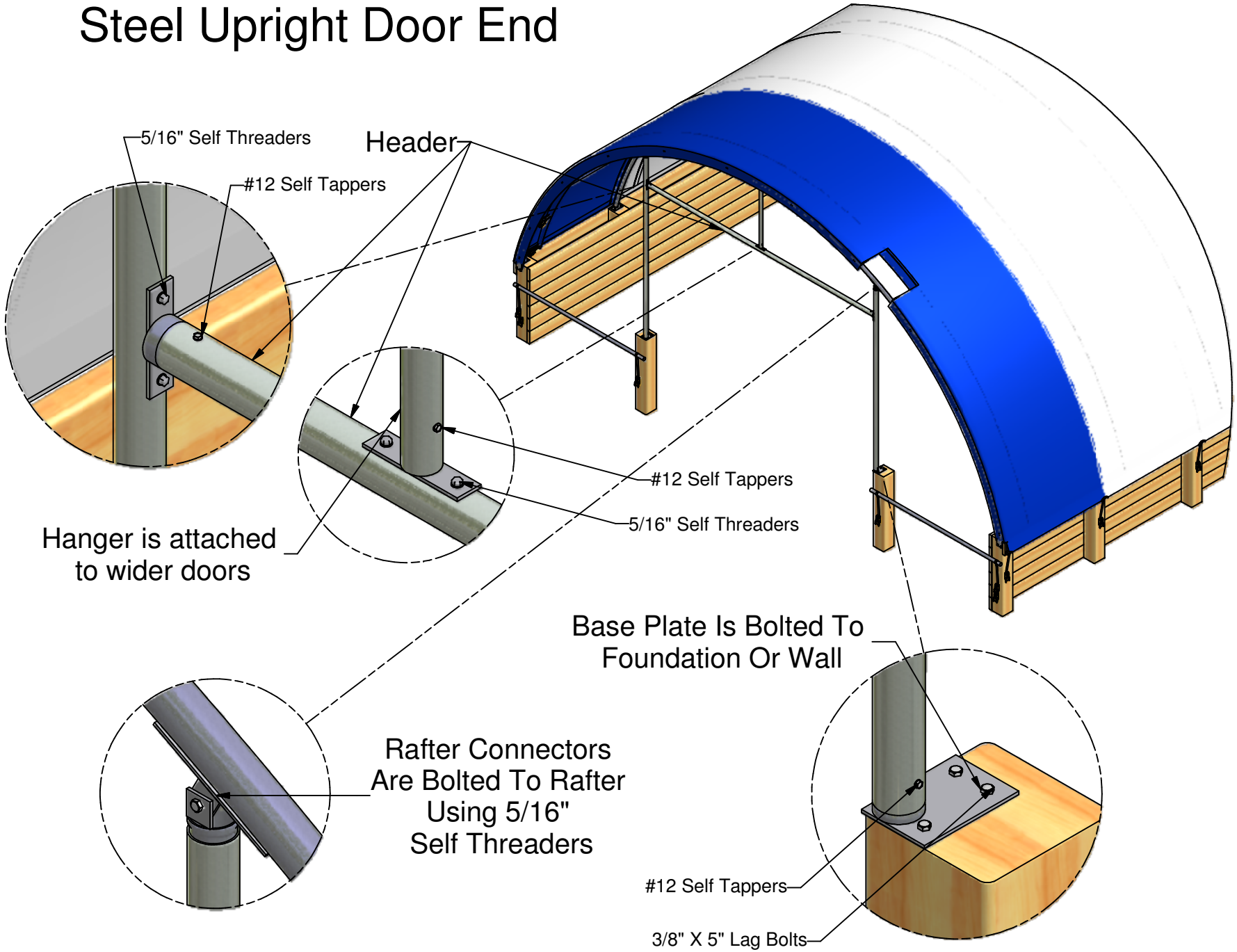
2. A light duty ratchet and belt is looped through the hole in the pocket around the conduit then around the end rafter and back to the ratchet. A ratchet and belt is attached every 4' along the curve of the tarp.

3. The tarp can easly be tightened and later retightened using the ratchets and belts.

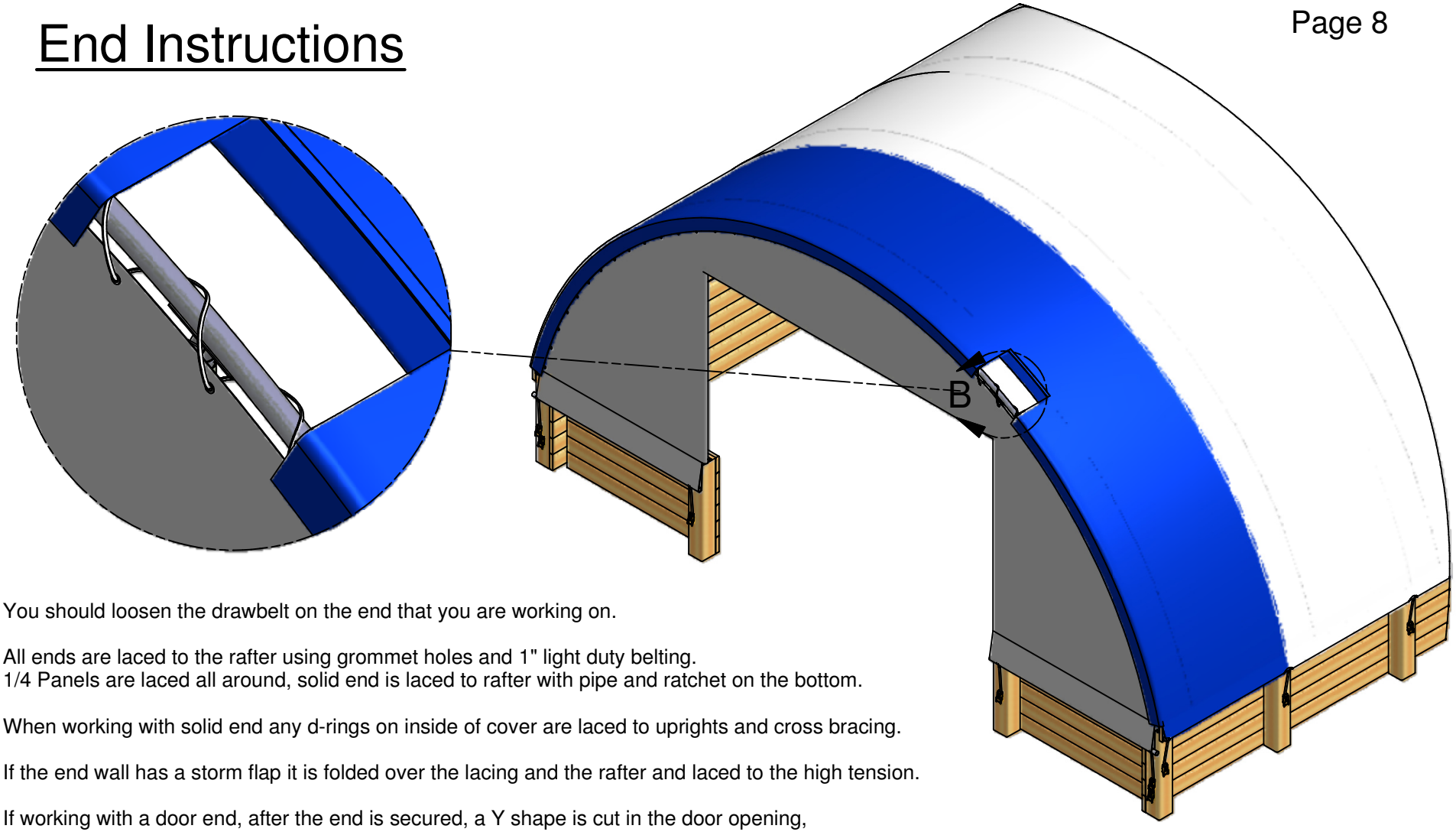
4. After the tarp is tight end to end, the side ratchets can be tightened. The drawbelt in the flap is tightened using the ratchets at the end of the building.



Steel Upright Door End



End Instructions



1. You should loosen the drawbelt on the end that you are working on.
2. All ends are laced to the rafter using grommet holes and 1" light duty belting.
   1/4 Panels are laced all around, solid end is laced to rafter with pipe and ratchet on the bottom.
3. When working with solid end any d-rings on inside of cover are laced to uprights and cross bracing.
4. If the end wall has a storm flap it is folded over the lacing and the rafter and laced to the high tension.
5. If working with a door end, after the end is secured, a Y shape is cut in the door opening,
   and the material from in the door is wrapped around the uprights and screwed in place.

GENERAL NOTES

1. DESIGN PARAMETERS:
   1.1. ALL LOADS ARE UNFACTORED UNLESS NOTED OTHERWISE.
   1.2. SITE INFORMATION:
   IMPORTANCE CATEGORY: LOW
   WIND EXPOSURE: OPEN TERRAIN
   INTERNAL PRESSURE CATEGORY: 2
   FOUNDATION SITE CLASS: D
   1.3. DESIGN LOADS:
   FLOOR LIVE LOAD: 4.8 kPa [100 psf]

2. GENERAL:
   2.1. REFERENCED CODES SHALL BE THE EDITIONS DESIGNATED IN TABLE 1.3.1.2 OF DIVISION B OF THE BRITISH COLUMBIA BUILDING CODE (BCBC) 2012 UNLESS NOTED OTHERWISE.
   2.2. THESE NOTES SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
   2.3. THE DRAWINGS ARE FOR THE COMPLETED PROJECT. FORMWORK, FALSEWORK, SCAFFOLDING AND THE SUPPORT OF NEW AND EXISTING STRUCTURES DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
   2.4. DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ELEVATIONS ARE IN METRES UNLESS NOTED OTHERWISE.
   2.5. DO NOT SCALE DRAWINGS.
   2.6. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS IN THE FIELD. THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL CONTROL THE PRODUCTION OF WORK ON SITE AND ELSEWHERE TO FULFILL THE INTENT OF THE DRAWINGS.
   2.7. THE ENGINEER'S REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS OR OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.

3. FOUNDATIONS:
   3.1. ASSUMED SOIL BEARING CAPACITY: 100 kPa [2,000 psf]
   3.2. THE SOIL BEARING CAPACITY SHALL BE VERIFIED IN THE FIELD BY A GEOTECHNICAL ENGINEER, AND THE ENGINEER SHALL BE NOTIFIED OF THE ACTUAL SOIL BEARING CAPACITY.
   3.3. FOOTINGS SHALL BEAR ON APPROVED NATIVE, UNDISTURBED SOIL OR ROCK, FREE OF ORGANIC MATERIAL, WITH A MINIMUM FROST PROTECTION OF 1.8 m [6'] TO THE UNDERSIDE OF THE FOOTING.
   3.4. EXCAVATIONS SHALL BE BACKFILLED WITH GRANULAR MATERIAL OR APPROVED NATIVE SOIL FREE OF ORGANIC MATERIAL, FOREIGN MATTER AND ROCKS LARGER THAN 75 mm [3"]. THE BACKFILL SHALL BE COMPACTED TO 95 % OF STANDARD PROCTOR MAXIMUM DRY DENSITY IN LAYERS NOT EXCEEDING 300 mm [1'] UNLESS NOTED OTHERWISE. NATIVE MATERIAL IS NOT ACCEPTABLE IF IT IS IMPRACTICABLE TO CONTROL THE WATER CONTENT OR COMPACT TO THE SPECIFIED DENSITY.

4. CONCRETE:
   4.1. CONCRETE SHALL CONFORM TO AND BE PLACED IN ACCORDANCE WITH CSA–A23.1.
   4.2. REFER TO TABLE ON THIS DRAWING FOR CONCRETE SPECIFICATIONS. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AT LEAST ONE WEEK PRIOR TO BATCHING.
   4.3. CONCRETE QUALITY SHALL BE TESTED IN ACCORDANCE WITH CSA–A23.2. CONCRETE TESTING SHALL BE CARRIED OUT BY A THIRD PARTY TESTING AGENCY CERTIFIED IN ACCORDANCE WITH CSA–A283. A MINIMUM OF THREE CYLINDERS SHALL BE TAKEN FOR STRENGTH TESTING FOR EVERY 35 m^3 [45 yd^3] OF EACH CLASS OF CONCRETE POURED PER DAY. TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER.
   4.4. FORMWORK SHALL BE LEFT IN PLACE UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND ALL IMPOSED LOADS. CONTACT THE ENGINEER FOR RECOMMENDED STRIPPING TIMES.
   4.5. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL DRAWINGS (AS APPLICABLE) FOR HOLES, NAILERS, INSERTS, ETC TO BE CAST INTO THE CONCRETE.

5. REINFORCEMENT:
   5.1. REINFORCEMENT, HARDWARE AND EMBEDDED ITEMS SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH CSA–A23.1.
   5.2. REINFORCING STEEL SHALL CONFORM TO CSA–G30.18 GRADE 400 UNLESS NOTED OTHERWISE.
   5.3. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS SPECIFIED OR AUTHORIZED BY THE ENGINEER. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO CSA–G30.18 GRADE 400W UNLESS NOTED OTHERWISE. WELDING OF REINFORCING BARS SHALL CONFORM TO AND BE CARRIED OUT BY COMPANIES CERTIFIED IN ACCORDANCE WITH CSA–W186.
   5.4. REFER TO TABLES ON THIS DRAWING FOR LAP, HOOK AND DEVELOPMENT LENGTHS FOR REINFORCING BARS, AND CONCRETE COVER.
   5.5. REINFORCEMENT SPLICES IN SLABS AND WALLS SHALL BE STAGGERED WITH AN OFFSET EQUAL TO OR GREATER THAN THE REQUIRED LAP LENGTH.
   5.6. REINFORCEMENT, HARDWARE AND EMBEDDED ITEMS SHALL BE SECURED AND SUPPORTED TO ENSURE PROPER CONCRETE COVER AND SPACING WITHIN ALLOWABLE TOLERANCES BEFORE AND DURING PLACING OF CONCRETE. WIRE NOT LESS THAN 1.5 mm [1/16"] IN DIAMETER SHALL BE USED TO SECURE REINFORCEMENT. BAR SUPPORTS SHALL BE MADE OF PRECAST CONCRETE OR PLASTIC.
   5.7. CONCRETE SHALL NOT BE POURED UNTIL THE ENGINEER, OR HIS/HER REPRESENTATIVE, HAS INSPECTED THE REINFORCING STEEL AND POUR CONDITIONS.

REINFORCING STEEL CONCRETE COVER TABLE

EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F & S	C & A
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	–	75 mm [3"]	75mm [3"]
BEAMS, GIRDERS, COLUMNS & PILES	30 mm [1 1/4"]	40 mm [1 1/2"]	60 mm [2 1/2"]
SLABS, WALLS, JOISTS, SHELLS & FOLDED PLATES	20 mm [3/4"]	40 mm [1 1/2"]	60mm [2 1/2"]
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

CONCRETE SPECIFICATIONS TABLE

CONCRETE ELEMENT	EXPOSURE CLASS	28–DAY COMPRESSIVE STRENGTH	MAX AGGREGATE SIZE	AIR CONTENT	MAX W/C RATIO	CEMENT TYPE (1)
EXTERIOR						
SLABS–ON–GRADE (3)	C–2	32 MPa [4600 psi]	20 mm [3/4"]	5–8%	0.45	GU

(1) BLENDED GENERAL USE HYDRAULIC CEMENT (TYPE GUb) OR HIGH–EARLY–STRENGTH HYDRAULIC CEMENT (TYPE HE OR HEb) MAY BE USED IF APPROVED BY THE ENGINEER
(2) UNLESS SULPHATE–RESISTANT CEMENT (TYPE MS, MSb, HS OR HSb) IS REQUIRED BY GEOTECHNICAL ENGINEER
(3) USE SPECIFICATION FOR EXTERIOR SLAB–ON–GRADE FOR GARAGE FLOOR SLABS

REINFORCING STEEL LAP LENGTHS TABLE (1)

	TENSION (2)				COMPRESSION
	VERTICAL BARS (3)		HORIZONTAL BARS (3)		ALL BARS
	≤ 20M	≥25M	≤ 20M	≥25M	ALL DIAMETERS
25 MPa	37d	47d	49d	61d	29d
30 MPa	34d	43d	44d	56d	
32 MPa	33d	41d	43d	54d	
35 MPa	32d	40d	41d	51d	
MINIMUM	≥ 300 mm [1'–0"]		≥ 300 mm [1'–0"]		≥ 200 mm [8"]

(1) LAP LENGTHS APPLY TO NORMAL DENSITY CONCRETE AND UNCOATED BARS WITH YIELD STRENGTH OF 400 MPa [60 ksi].
(2) LAP LENGTHS APPLY TO BEAMS CONTAINING MINIMUM STIRRUPS, COLUMNS CONTAINING MINIMUM TIES, AND SLABS AND WALLS WITH A BAR SPACING OF AT LEAST 2d OVER LAP LENGTH. MULTIPLY VALUES BY 1.33 OTHERWISE.
(3) LAP LENGTHS FOR VERTICAL BARS ALSO APPLY TO HORIZONTAL BARS WITH NO MORE THAN 300 mm [12"] OF FRESH CONCRETE CAST BELOW THE SPLICE.
(4) MULTIPLY LAP LENGTHS OF UNCOATED BARS BY 1.5 TO DETERMINE LAP LENGTHS OF EPOXY COATED BARS.
(5) DIVIDE LAP LENGTHS BY 1.3 TO DETERMINE DEVELOPMENT LENGTHS. DEVELOPMENT LENGTHS SHALL NOT BE LESS THAN 300 mm [12"] IN TENSION AND 200 mm [8"] IN COMPRESSION.

ISSUED WITH REPORT

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT
B	17.04.13	CH	BC	BC	ISSUED FOR REVIEW
A	16.09.22	CH	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

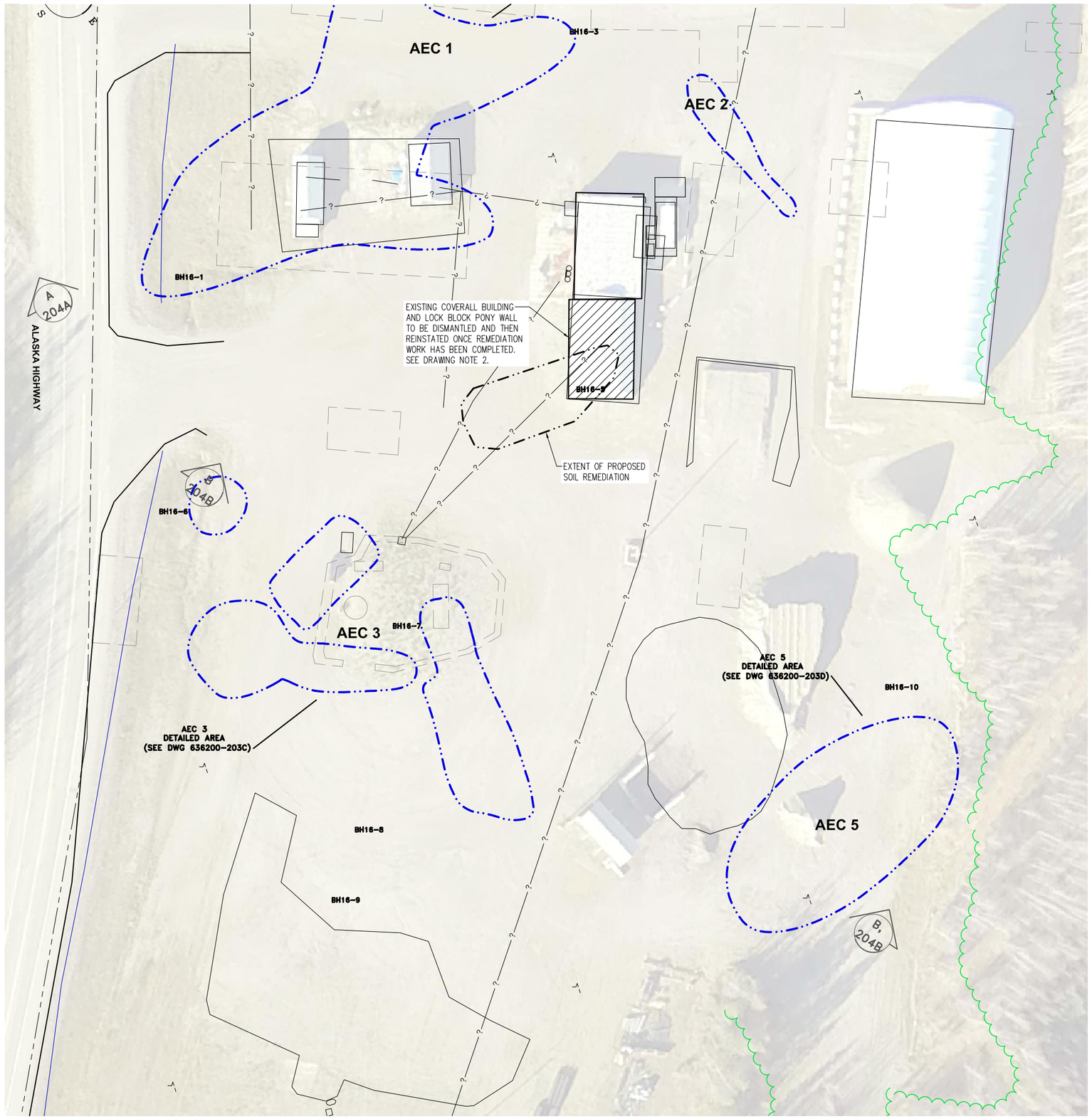
SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

GENERAL NOTES

PROJECT No.	DRAWING No.	REV
427-03	S-100	C

DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 15.12.17 FILE NAME:1772-15(427-03).dwg



LEGEND

- SUBJECT PROPERTY LIMITS
- LOT LINE
- C — COMMUNICATIONS LINE
- E — ELECTRICAL LINE
- ? — UNKNOWN UTILITY
- APPROXIMATE LIMITS OF 2003 EXCAVATION
- APPROXIMATE LIMITS OF 2004 EXCAVATION
- TREE LINE
- 2016 REMEDIAL EXCAVATION LIMITS
- RAMP INTO/BENCH AROUND EXCAVATION

ISSUED WITH REPORT

DRAWING NOTES

1. FOR GENERAL NOTES SEE DRAWING 100.
2. FOR GUIDANCE ON DISMANTLING COVERALL BUILDING SEE SCOUTEN ENGINEERING LETTER 'DISASSEMBLY AND RE-ERECTION OF AN EXISTING ARCHED FABRIC STRUCTURE AT THE FIRESIDE MAINTENANCE CAMP, AT km 889 ON THE ALASKA HIGHWAY, BRITISH COLUMBIA' DATED DECEMBER 15, 2017.

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
D	18.05.28	JE	BC	BC	ISSUED WITH REPORT
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT
B	17.04.13	CH	BC	BC	ISSUED FOR REVIEW
A	16.09.22	CH	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

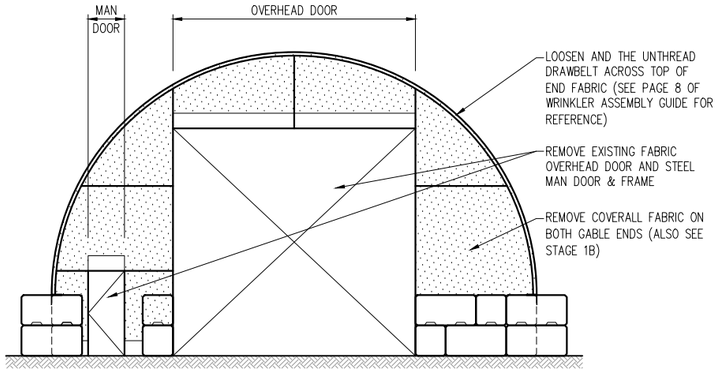
SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

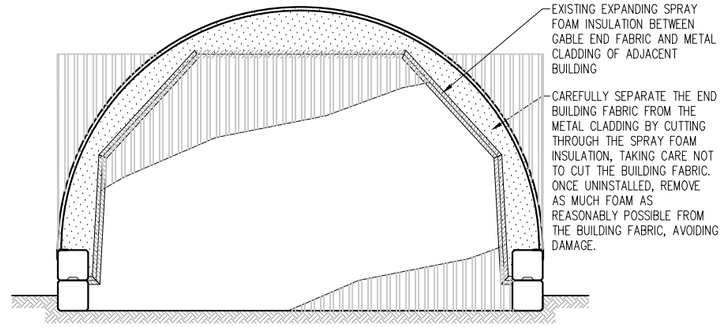
PROPOSED SITE PLAN

PROJECT No.	DRAWING No.	REV
427-03	C-101	D

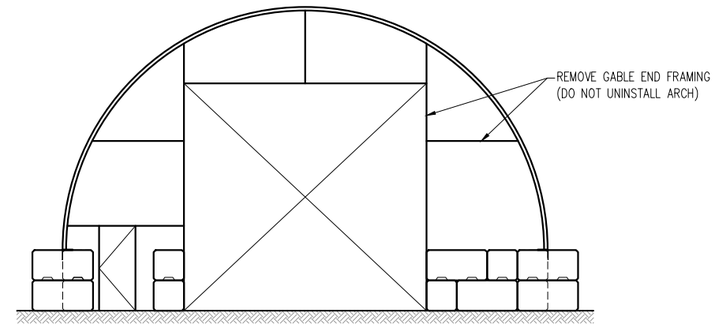
DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 25.05.18 FILE NAME: 17216 (C) 427-03.dwg



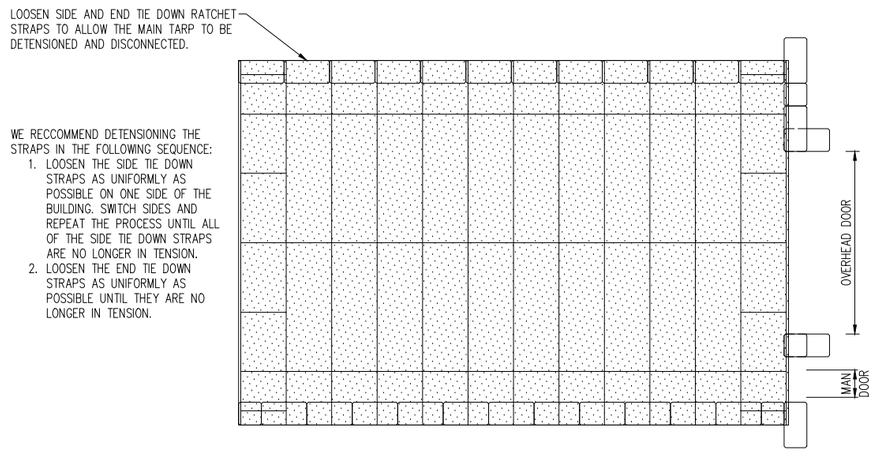
STAGE 1A
1:150



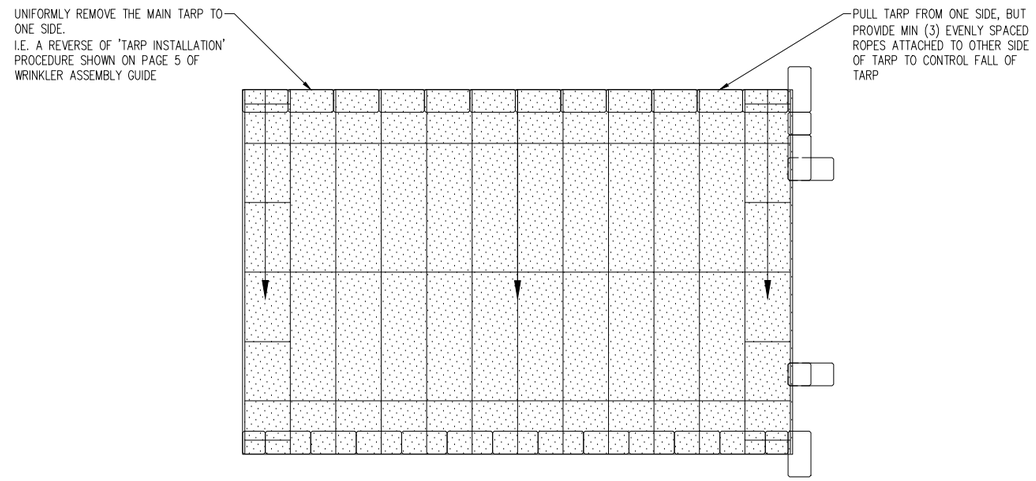
STAGE 1B
1:150



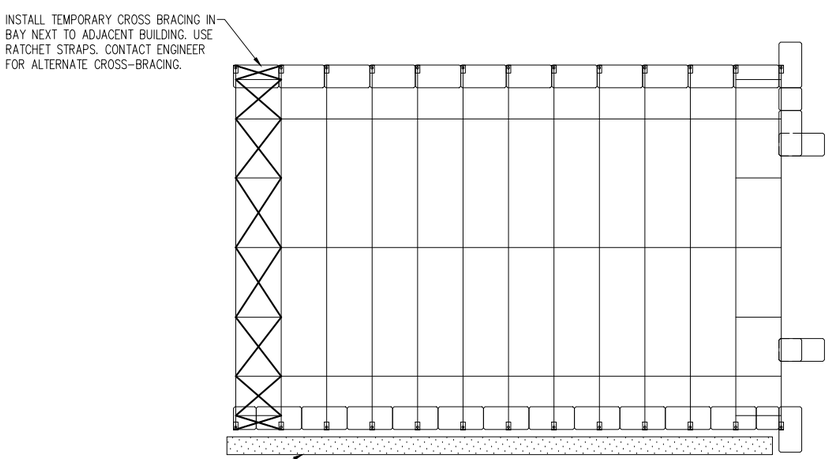
STAGE 2
1:150



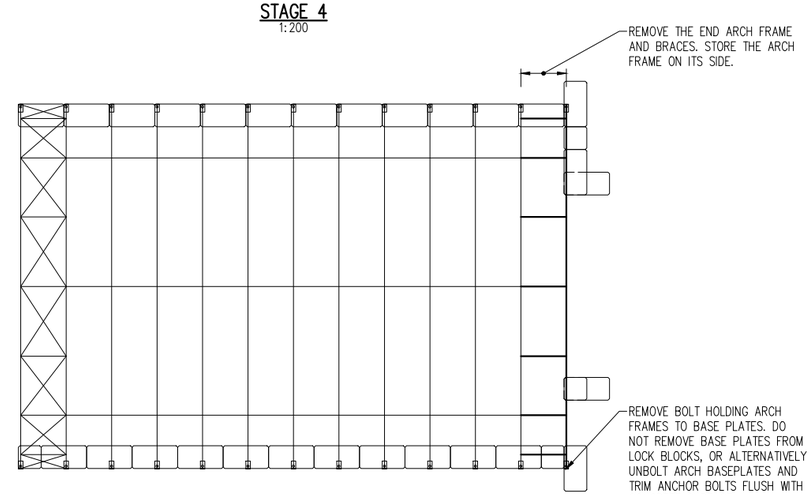
STAGE 3
1:200



STAGE 4
1:200



STAGE 5
1:200



STAGE 6
1:200

ISSUED WITH REPORT

DRAWING NOTES

1. FOR GENERAL NOTES SEE DRAWING S-100
2. THESE DRAWINGS SHALL BE READ IN CONJUNTION WITH SCOUTEN ENGINEERING LETTER 'DISASSEMBLY AND RE-ERECTION OF AN EXISTING ARCHED FABRIC STRUCTURE AT THE FIRESIDE MAINTENANCE CAMP, AT km 889 ON THE ALASKA HIGHWAY, BRITISH COLUMBIA' DATED DECEMBER 15, 2017.
3. REFER TO WRINKLER STRUCTURES INSTALLATION MANUAL TO DISSASEMBLE BUILDING.
4. DISASSEMBLY SHALL NOT TAKE PLACE ON DAYS WHERE THE WIND SPEED IS GREATER THAN 10 km/h.

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

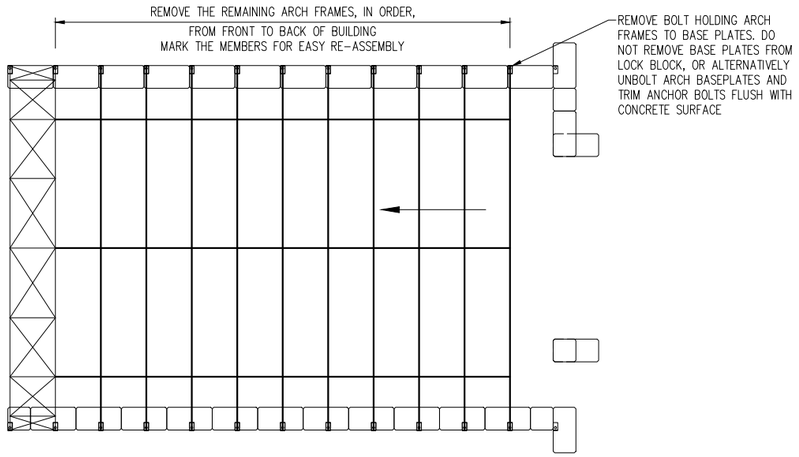
SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

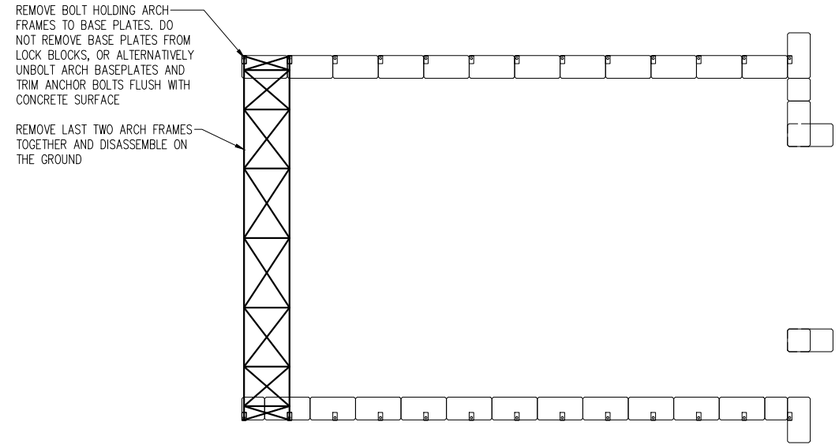
EXISTING COVERALL BUILDING DECONSTRUCTION PROCEDURE

PROJECT No.	DRAWING No.	REV
427-03	S-201	C

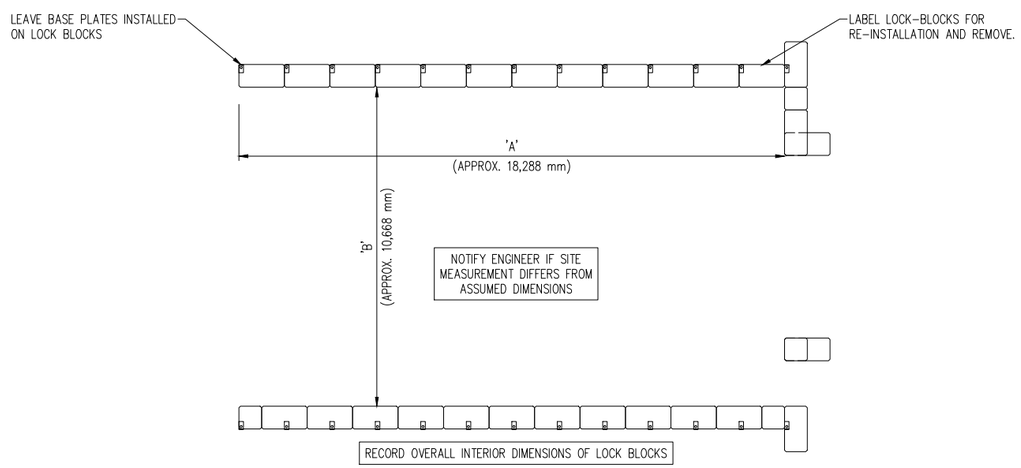
DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 15.12.17 FILE NAME:171215(427-03).dwg



STAGE 7
1:200



STAGE 8
1:200



STAGE 9
1:200

ISSUED WITH REPORT

DRAWING NOTES

1. FOR GENERAL NOTES SEE DRAWING S-100
2. THESE DRAWINGS SHALL BE READ IN CONJUNTION WITH SCOUTEN ENGINEERING LETTER 'DISASSEMBLY AND RE-ERECTION OF AN EXISTING ARCHED FABRIC STRUCTURE AT THE FIRESIDE MAINTENANCE CAMP, AT km 889 ON THE ALASKA HIGHWAY, BRITISH COLUMBIA' DATED DECEMBER 15, 2017.
3. REFER TO WRINKLER STRUCTURES INSTALLATION MANUAL TO DISSASEMBLE BUILDING.
4. DISASSEMBLY SHALL NOT TAKE PLACE ON DAYS WHERE THE WIND SPEED IS GREATER THAN 10 km/h.

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

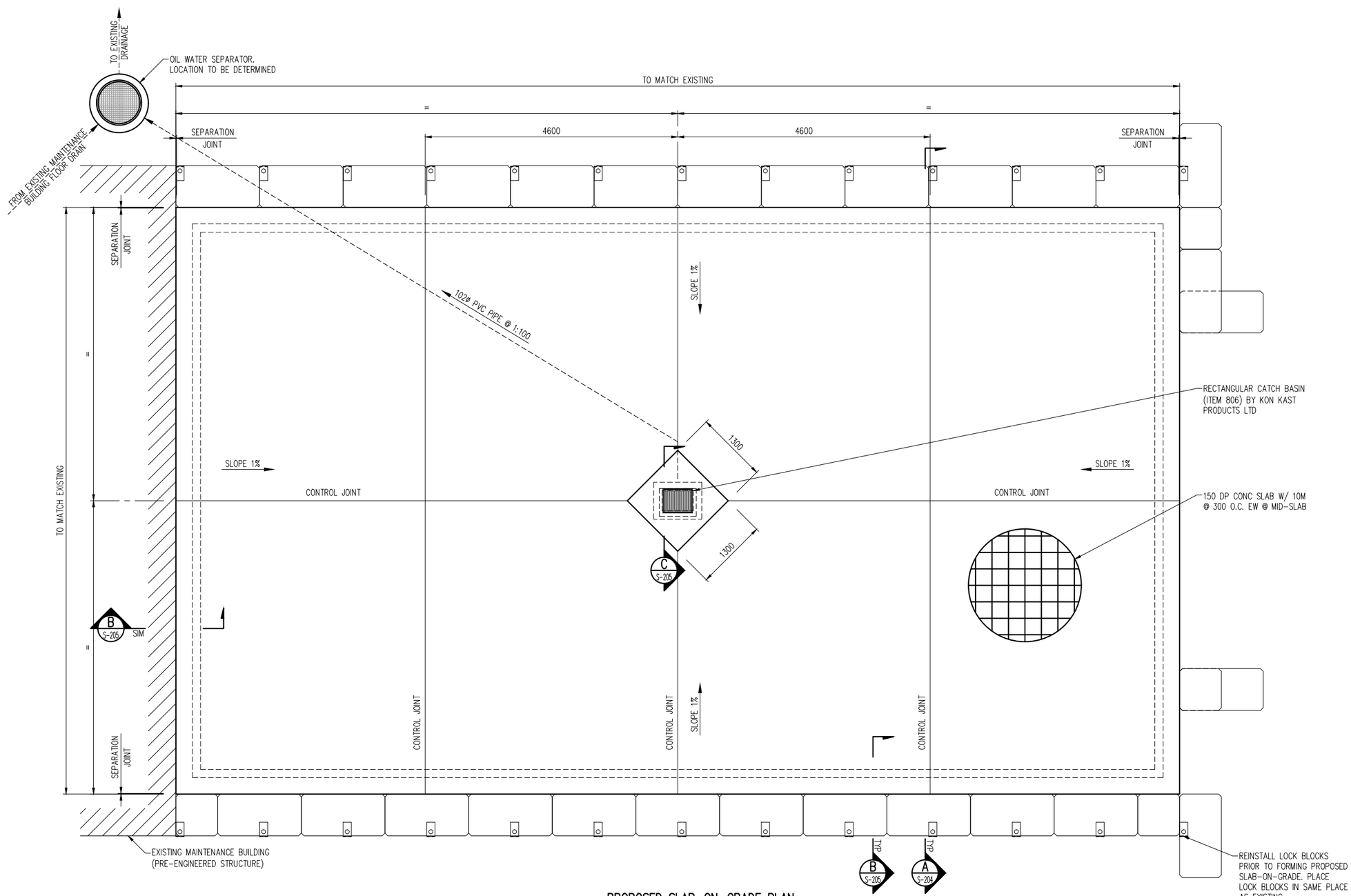
SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

EXISTING COVERALL BUILDING
DECONSTRUCTION PROCEDURE

PROJECT No.	DRAWING No.	REV
427-03	S-202	A

DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 15.12.17 FILE NAME:171215(142-02).dwg



PROPOSED SLAB-ON-GRADE PLAN
1:75

ISSUED WITH REPORT

DRAWING NOTES

1. FOR GENERAL NOTES SEE DRAWING S-100
2. THESE DRAWINGS SHALL BE READ IN CONJUNTION WITH SCOUTEN ENGINEERING LETTER 'DISASSEMBLY AND RE-ERECTION OF AN EXISTING ARCHED FABRIC STRUCTURE AT THE FIRESIDE MAINTENANCE CAMP, AT km 889 ON THE ALASKA HIGHWAY, BRITISH COLUMBIA' DATED DECEMBER 15, 2017.
3. REFER TO WRINKLER STRUCTURES INSTALLATION MANUAL TO REASSEMBLE THE BUILDING.
4. REASSEBLY SHALL NOT TAKE PLACE ON DAYS WHERE THE WIND SPEED IS GREATER THAN 10 km/h.

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

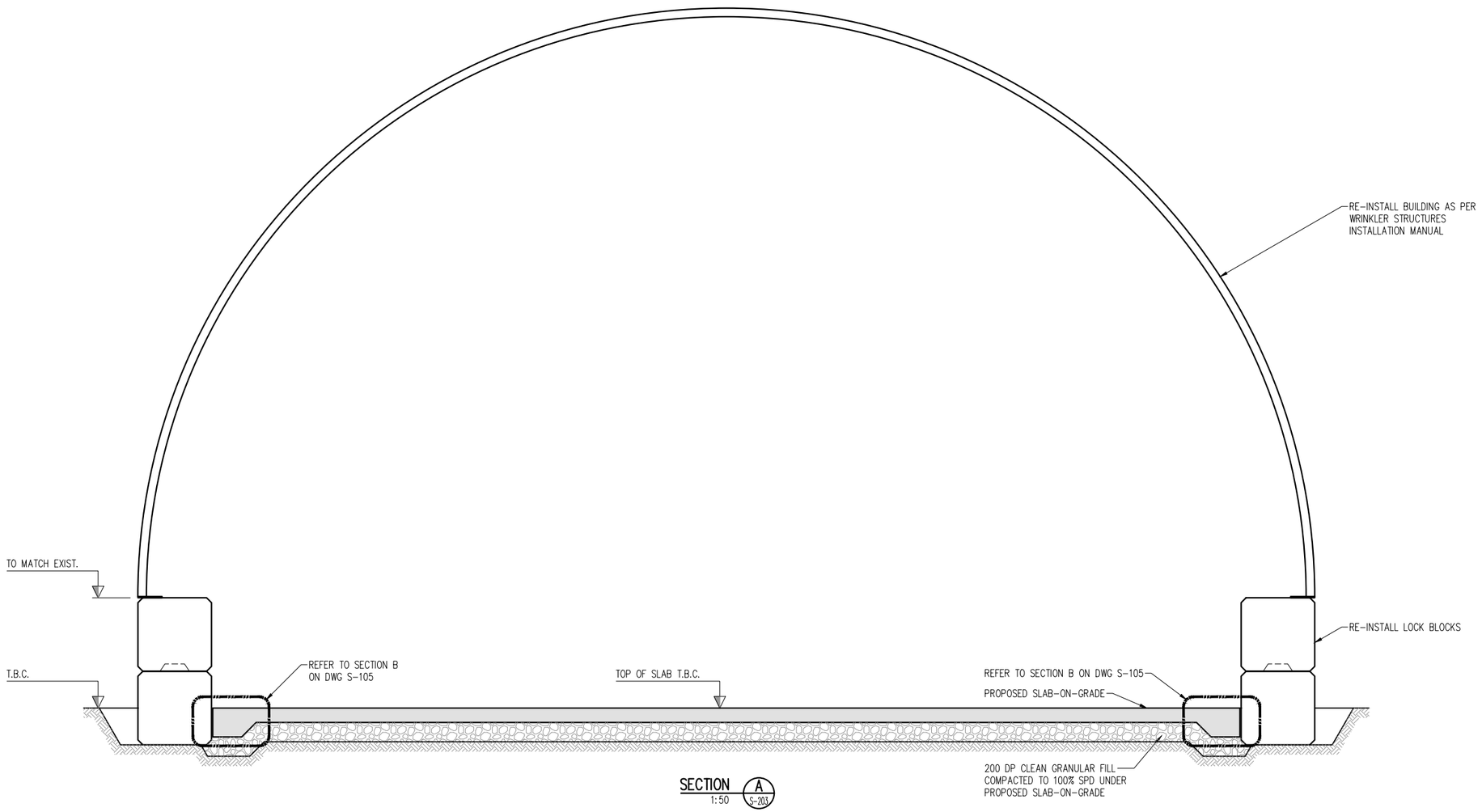
SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

PROPOSED
SLAB-ON-GRADE PLAN

PROJECT No.	DRAWING No.	REV
427-03	S-203	A

DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 15.12.17 FILE NAME:17275[C]427-03.dwg



SECTION A S-203
1:50

ISSUED WITH REPORT

DRAWING NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT LETTER PRODUCED BY SCOUTEN ENGINEERING LTD.
2. FOR GENERAL NOTES SEE DRAWING 100.
3. REFER TO WRINKLER STRUCTURES INSTALLATION MANUAL TO REASSEMBLE THE BUILDING.
4. REASSEBLY SHALL NOT TAKE PLACE ON DAYS WHERE THE WIND SPEED IS GREATER THAN 10 km/h.

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

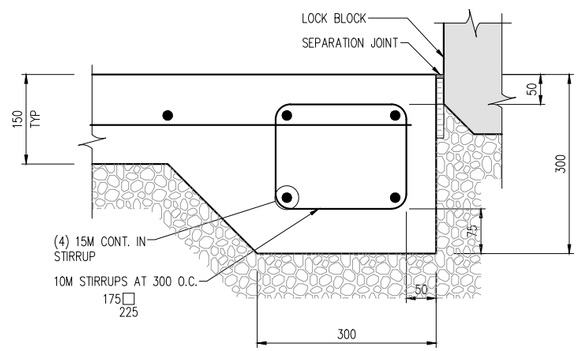
SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

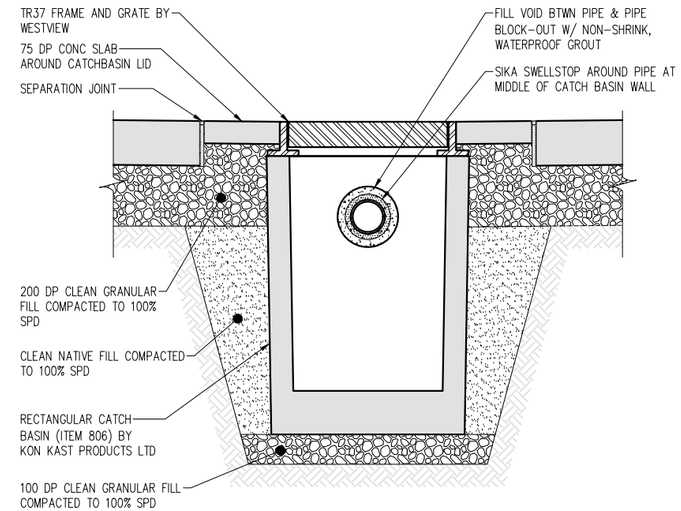
PROPOSED
BUILDING SECTION

PROJECT No.	DRAWING No.	REV
427-03	S-204	A

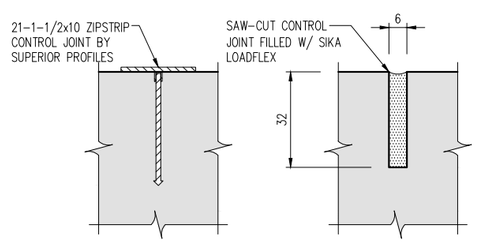
DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 15.12.17 FILE NAME: 171215 C 427-03.dwg



SECTION B S-203
1:10

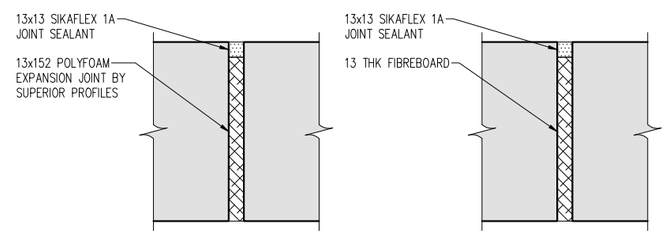


SECTION C S-203
1:20



OPTION 1 OPTION 2

CONTROL JOINT DETAIL
1:2



OPTION 1 OPTION 2

SEPARATION JOINT
1:5

ISSUED WITH REPORT

DRAWING NOTES

1. FOR GENERAL NOTES SEE DRAWING S-100.

REFERENCE DRAWINGS

DWG No.	REV	PROJECT No.	PRODUCED BY
-	-	-	-

DRAWING REVISIONS

REV	DATE	DRW	DES	APP	REVISION
C	17.12.14	MR	BC	BC	ISSUED WITH REPORT

CONSULTANT

Scouten ENGINEERING
201 - 1968 QUEENSWAY
PRINCE GEORGE • BC • V2L 1M2
info@scoutenengineering.com
T 250.562.7050

CLIENT

SNC • LAVALIN

PROJECT INFORMATION

SNC LAVALIN

FIRESIDE, BC
HIGHWAY MAINTENANCE
BUILDING ASSESSMENT

PROPOSED
SECTIONS AND DETAILS

PROJECT No.	DRAWING No.	REV
427-03	S-205	A

DISCARD ALL PREVIOUS REVISIONS LAST UPDATED: 15.12.17 FILE NAME:1772151C42-03.dwg