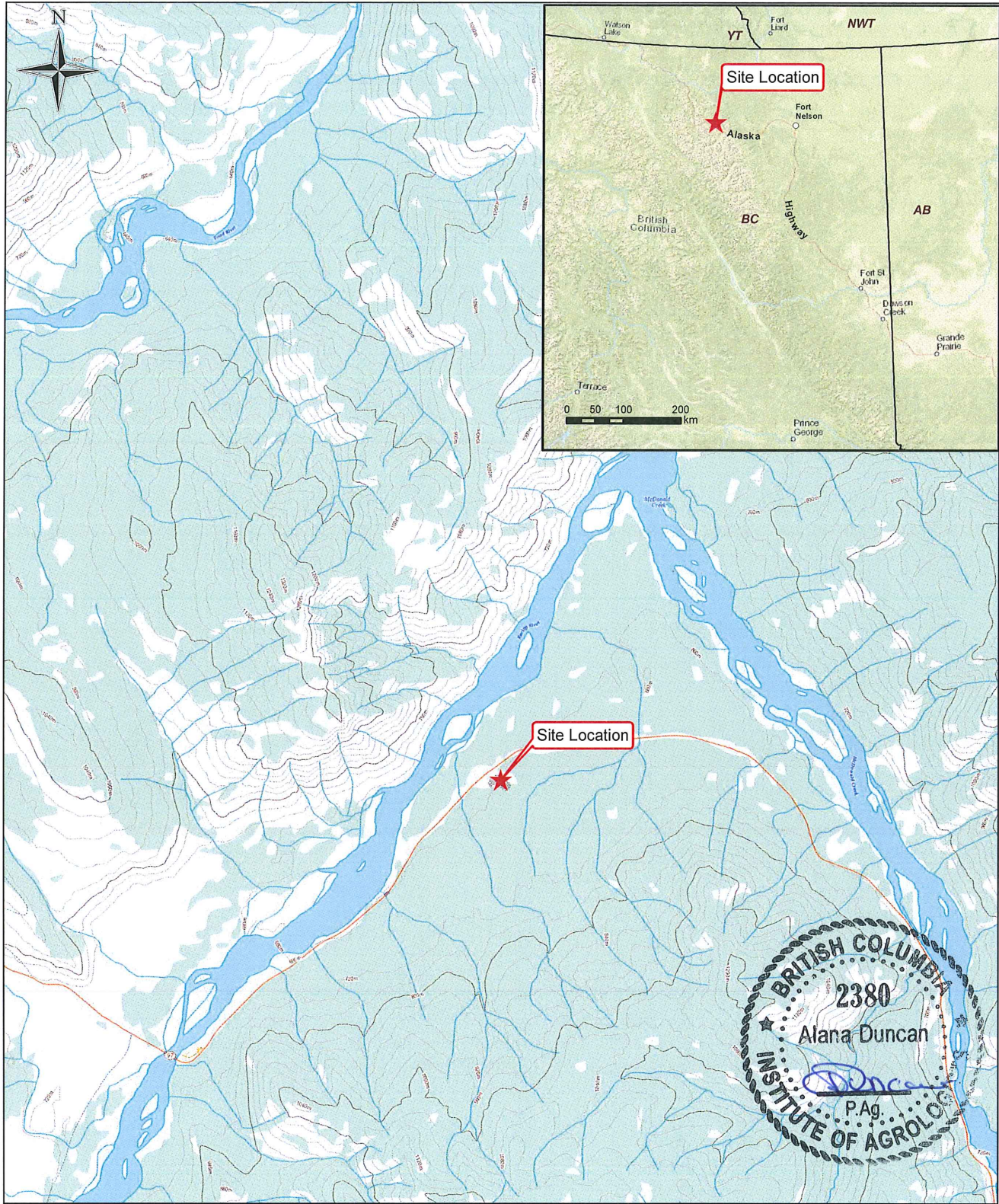


APPENDIX E

Soil Treatment Facility Detail



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:
Public Works and Government
Services Canada

PROJECT LOCATION:
Stringer Creek Soil Treatment Facility
Alaska Highway, BC

Site Location- Stringer Creek STF

0 0.5 1 2 3 4
Kilometers

BY: AO
CHK'D: AD

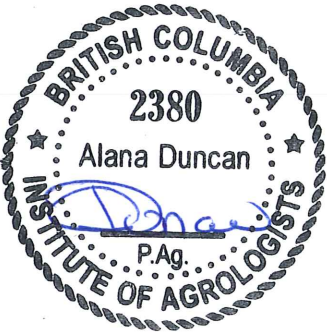
DATE: 2016-08-10
SCALE: 1:50,000

REF No: REV: 0
635734-306



The existing STF appears to have a synthetic base liner and has an effective surface area of 40 m x 40 m. It is surrounded by berms with an approximate height ranging between 0.5 m to 1 m. The STF is located within a fenced compound with a lockable gate and signage at its east side. An earthen ramp extends from the top of the berm through the gate to the east and provides access to the STF for heavy equipment.

- 1) There currently exists an approximate 0.5 m lift of soil at the base of the STF. The intent is to leave this soil to provide protection of the existing liner system for the duration of its current planned use for the treatment of the contaminated soil originating from the Toad River Maintenance Camp excavation.
- 2) Any shrubs, trees or other vegetation within the fence line or directly outside and adjacent to the existing fence of the STF will require removal. All necessary precautions are to be taken to avoid further damage to the liner during the vegetation removal. A Departmental Representative must be advised of and provided an opportunity to inspection the liner during and following any vegetation removal in close proximity of the liner or within the liner footprint area.
- 3) The contractor is to inspect and repair the existing liner (e.g., patching) as required for any holes, tears or rips in the existing liner (as identified by a Departmental Representative or the Contractor) prior to placement of soil any additional within the STF. A Departmental Representative must be advised of and provided an opportunity to inspection any liner repairs prior to use of the STF for receiving soil.
- 4) As noted, approximately 5,040 m3 of contaminated soil from the Toad River Maintenance Camp remedial excavation is to be placed within the STF. The contaminated soil should be placed up to the perimeter berms and not exceed the height of the berms at the edges to allow for free drainage of surface water to the outside of the covered berms. Soil should be crowned towards the centre of the STF.
- 5) Access constraints to the STF for heavy equipment and soil staging from Toad River must be considered and confirmed by the Contractor. Note that existing gravel piles located adjacent to the SFT will not be relocated.
- 6) Following placement of the contaminated soil, the Contractor will provide, install and secure a continuous (seamless) 25 mil oil resistant reinforced polyethylene (OR RPE) ultra violet resistant cover liner (or approved equivalent) over the placed soils. The cover liner lifetime requirement is a minimum 5 years. The cover liner should be installed extending a minimum of 0.5 m down the outside of the earthen berm or to the existing fenceline. The cover liner must be secured in place (perimeter and interior) using easily removable weights (e.g., tires, lumber, etc.).
- 7) A complete survey of the STF surfaces is required both prior to and after the loading of the STF to determine the volume of placed soil during the project.



LEGEND

- TOE SLOPE/EDGE OF CLEARING (APPROX.)
- APPROXIMATE LOCATION OF GRAVEL PILE (w/ HEIGHT)
- TREELINE (APPROX.)
- FENCE

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. GRAVEL PILE LOCATIONS AND SIZE ARE APPROXIMATE ONLY.
4. CONTRACTOR TO EVALUATE ACCESS CONSTRAINTS TO STF PRESENTED BY EXISTING GRAVEL PILE.

REFERENCE DRAWINGS

IMAGERY	-	BING AERIAL IMAGERY
DWG. NO.	DATE	DESCRIPTION
REVISIONS		
1	2016-08-09	ISSUED TO CLIENT
REV.	DATE	DESCRIPTION

CLIENT NAME: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
PROJECT LOCATION: STRINGER CREEK GRAVEL PIT, KM 638.7 ALASKA HIGHWAY, B.C.
TITLE: SITE PLAN - STRINGER CREEK STF

DWN BY: DRB/BB	SCALE: 1:1,000	DATE: 2016-08-03	DWG No:	REV.: 1
CHK'D: TM/AD	PLOT: 20160809.0631	CADFILE: 635734R5	635734-307	



Photograph 1: View looking southwest at existing STF. Note gate and earthen ramp in foreground. Note shrubs growing along fenceline and along berms.



Photograph 2: View looking southwest of STF gate and earthen ramp. Note existing signage.



Photograph 3: View of looking northwest along northeast STF fenceline. Note gravel pile in photograph right.



Photograph 4: View looking west across STF.



Photograph 5: View looking northeast of STF from west corner.



Photograph 6: View of typical berm construction at STF. Exposed liner on berm is woven material, and may extend below STF.



Photograph 7: Close up of suspect (woven) liner.