

Timber Sale Licence A93884 Clack

From: Turner, Cheryl R FLNR:EX <Cheryl.R.Turner@gov.bc.ca>
To: Laren Saindon <lsaindon@btheli.com>
Cc: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: May 10, 2019 2:48:03 PM PDT
Attachments: A93884 Certification Letter.pdf, A93884_f1 RP R22327 Black Mount.pdf, A93884_f3_Sched R Appendix I Plans_Profiles_Cross_Sections_RF030.pdf, A93884_f4_Sched R Appendix I StoneCroft Bridge_Design_RF030 0+654.pdf, A93884_f4_Sched R Appendix I StoneCroft Bridge_Design_RF030-500 0+313.pdf, A93884_f4_Sched R Appendix I StoneCroft Bridge_Design_RF030 0+221.pdf, A93884_f3_Sched R Appendix I Plans_Profiles_Cross_Sections_RF030-500.pdf, A93884_f2_RP_Exhibit_A.pdf, A93884_e1_TSL_Appendix 1_FPOC_Conformance_Certificate Pilot.pdf, A93884_e1_TSL.pdf, A93884_e2_TSL_Exhibit_A.pdf, A93884 TSL Issuance Letter 09May2019.pdf

Hi Laren,
Attached is your signed copy of timber sale licence A93884 Elphinstone/Clack Creek.
If you have any questions, please don't hesitate to contact myself or Allan.
Thank you,

Cheryl Turner
Business Administrator
BC Timber Sales, Chinook BA
Ministry of Forests, Lands and Natural
Resource Operations and Rural Development
778-704-7068

Cheryl.R.Turner@gov.bc.ca

"TO ERR IS HUMAN; TO FORGIVE, DIVINE."

(Alexander Pope)

Black Mount Logging Inc.

9.00 NOTICE

- 9.01 A notice given under this Road Permit must be in writing.
- 9.02 Where a notice is to be given under this Road Permit, it may be
- (a) delivered by hand; or
 - (b) sent by prepaid registered mail addressed to the address
 - (i) specified on the first page of this Road Permit; or
 - (ii) to such other address as is specified in a notice given in accordance with this Part.



**Stacey Gould, Timber Sale Manager,
Chinook BC Timber Sales**



File: 19620-25 / TSL A93884

May 9, 2019

Reference: Sustainable Forest Management (SFM) certification of timber originating from Timber Sale Licence A93884, Timber Mark 93884 within the Sunshine Coast Timber Supply Area forest management unit of the province of British Columbia, Canada.

Dear Black Mount Logging Inc.:

The timber to be harvested under this Licence is situated within an area included within the scope of Sustainable Forestry Initiative (SFI) forest management certificate # PRI-SFI-FM-057 issued to BC Timber Sales (BCTS). A copy of the certificate is provided at <https://www.for.gov.bc.ca/ftp/HBT/external!/publish/Certification/BCTS-SFI-Certificate.pdf>

As this timber is within the scope of a Programme for Endorsement of Forest Certification (PEFC)-endorsed certification for forest management as outlined above, for Chain of Custody certification purposes it is also considered 100% PEFC-certified.

BCTS hereby transfers to the licensee, certification credits associated with the timber scaled and/or billed under this timber mark.

Yours truly,

Stacey Gould
Timber Sales Manager
BC Timber Sales
Chinook Business Area

IN WITNESS WHEREOF each of the parties has executed this Licence on the respective date set forth below.

THE COMMON SEAL of the
Licensee was affixed in the
presence of:

AFFIX
COMMON SEAL

.....
Signature of Witness


.....
Date

.....
Print Witness Name

Or

SIGNED by the Licensee in the
presence of:


Signature of Witness

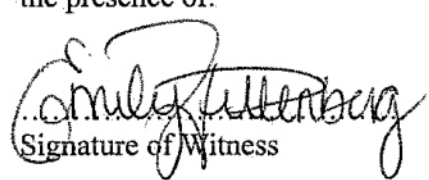

Signature of Licensee or Authorized
Signatory


May 6 2019
Date

Patrick Robson
Print Witness Name

Loren Scindon
Print Name of Licensee or Authorized
Signatory

SIGNED by the Timber Sales
Manager on behalf of Her
Majesty the Queen in Right of the
Province of British Columbia in
the presence of:


Signature of Witness


Stacey Gould, Timber Sales Manager
BC Timber Sales Chinook Business Area

May 9, 2019
Date

Emily Wittenberg
Print Witness Name



ROAD PERMIT NO. R22327

ISSUANCE DATE: May 9, 2019

PURSUANT TO SECTION 115 OF THE *FOREST ACT*, THIS ROAD PERMIT IS ISSUED TO:

Permittee Name: Black Mount Logging Inc.
(the "Permittee")

Permittee Address: 2021 Paco Road
Squamish, British Columbia
Canada V8B 0J6

1.00 INTERPRETATION

- 1.01 Definitions of terms not defined in this Road Permit shall have the same meaning as that given in British Columbia forest legislation and regulations. In cases of conflict, the definition in the legislation shall govern.
- 1.02 In this Road Permit:
 - (a) "Clearing Area" means that area of Crown land bounded by the outer limits of the clearing width as described in British Columbia forest legislation and regulations, over the length of road shown on attached map(s);
 - (b) "Timber Sales Manager" means a Timber Sales Manager appointed under the *Ministry of Forests Act*, for a BC Timber Sales business area in which all or part of the permit area is situated;
 - (c) "Landing" means an area modified by equipment that is designed for accumulating logs before they are transported;
 - (d) "Schedule" means the Schedule(s) attached to this Road Permit or amendment to this Road Permit;

2.00 GRANT OF RIGHTS

- 2.01 In consideration of the Permittee's right to harvest timber under Licence **A93884** and to provide access to that timber, subject to all British Columbia forest legislation and regulations as amended from time to time, the Timber Sales Manager grants to the Permittee

- (a) a non-exclusive right to enter on the Permit Area and construct within that Permit Area a road, including such landings, gravel/sand pits, rock quarries and waste areas as are necessary for construction of the road or for access to the timber and
 - (b) the right to use and maintain that road, or to use and maintain a road, within the Permit Area described in paragraph 3.01, in accordance with the conditions/specifications described in the attached Schedules.
- 2.02 Where it is necessary to harvest Crown timber from the Clearing Area in order to construct or maintain the road, including landings, gravel/sand pits and rock quarries within the Permit Area, the Timber Sales Manager grants to the Permittee the right to harvest that Crown timber in the Permit Area. The Permittee shall comply with the timber merchantability specifications provided in Licence **A93884** or associated cutting permits.
- 2.03 In accepting this Road Permit, the Permittee acknowledges that the provisions of this Road Permit and British Columbia forest legislation and regulations bind it.
- 2.04 The Schedules form an integral part of the Road Permit.
- 2.05 Any amendment to this Permit forms an integral part of the Permit.
- 2.06 There is reserved to the Crown
 - (a) the right to grant rights-of-way across, through or over the Permit Area to other parties, on such terms and conditions as the Timber Sales Manager determines,
 - (b) the right of employees and agents of the Crown to use and to cross the road and the Permit Area, and
 - (c) the right to grant timber harvesting rights to others with respect to the timber located outside the "Clearing Area," but within the "Permit Area."
- 2.07 The exercise of the Crown's rights under paragraph 2.06 shall not unreasonably impede or obstruct the Permittee's reasonable use of the road.
- 2.08 Waste assessments must be conducted in accordance with the *Provincial Logging and Waste Measurement Procedures Manual*, as amended from time to time.

3.00 PERMIT AREA AND TERM

- 3.01 The Permit Area is that area of Crown land described and shown on the Exhibit 'A' attached to this Road Permit.
- 3.02 The term of this Road Permit shall begin on **May 9, 2019**, and shall terminate on the date when the Crown notifies the Permittee in writing; that
 - (a) the road has been deactivated to the satisfaction of the Timber Sales Manager, or
 - (b) future use of the road by others will preclude the need for deactivation, or

- (c) the Road Permit is cancelled in accordance with the *Forest Act*.
- 3.03 Upon termination or cancellation of this Road Permit, title to all improvements that are located on the Crown land under this Road Permit, will vest in the Crown without compensation to the Permittee, unless otherwise permitted by prior written consent of the Timber Sales Manager or where other arrangements are described in a Schedule to this Permit.

4.00 TIMBER MARKS AND REPORTING

- 4.01 For purposes of the *Forest Act*, the timber mark for this Road Permit shall be that mark specified in the Schedules.

5.00 FINANCIAL

- 5.01 In addition to other money payable by the Permittee under the *Forest Act* and in respect of this Permit, the Permittee shall pay to the Crown, immediately on receipt of a notice, statement or invoice issued on behalf of the Crown:
 - (a) stumpage under Part 7 of the *Forest Act* in respect of timber harvested under this Permit, at rates determined, re-determined, and varied under that Act; and
 - (b) waste assessments for merchantable Crown timber that could have been cut and removed under this Permit but at the Permittee's discretion was not cut and removed, as determined in accordance with the provisions of the *Provincial Logging Residue and Waste Measurement Procedures Manual*.

6.00 APPROVALS

- 6.01 Prior to constructing, maintaining and using the road permitted under this Road Permit, the Permittee shall, unless the Timber Sales Manager authorizes otherwise in writing:
 - (a) obtain all necessary permits or authorizations for crossing alienated lands including powerlines, pipelines, railroads, public roads, and agricultural land reserves; and
 - (b) obtain all necessary permits or authorizations from other resource agencies and any authorized third-party occupiers or users of the Clearing Area.
- 6.02 The Timber Sales Manager authorizes the Permittee to construct a junction, where necessary, with a Forest Service road.
- 6.03 If the Permittee constructs a junction with a Forest Service Road, the Permittee shall construct the junction such that it
 - (a) has sufficient junction angle and suitable road grade for the expected traffic;
 - (b) has at least a minimum sight distance commensurate with the design speed of that Forest Service Road; and
 - (c) contains a culvert, as required, to maintain drainage patterns.

7.00 OTHER RIGHTS

- 7.01 The Permittee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area, which the Crown has granted to third parties and the Permittee covenants not to obstruct or impede a third party in its authorized use or occupation of these areas.
- 7.02 Except where a mineral reserve established under the *Mineral Tenure Act* allows otherwise, the Permittee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.
- 7.03 In consideration of the foregoing, the Permittee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Permittee's acts or omissions, including losses or damages arising out of the Permittee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

8.00 MISCELLANEOUS

- 8.01 The Permittee shall ensure that any access control structure erected to restrict motor vehicle traffic shall
 - (a) not be, or become, a hazard to the users of the road,
 - (b) be placed in a conspicuous location, with any gates adequately marked with permanent reflective material to be clearly visible to the operator of a motor vehicle from a safe stopping distance, and
 - (c) include warning signs to give vehicle operators adequate warning of the obstruction.
- 8.02 This Road Permit shall enure to the benefit of, and be binding on, the parties and their respective heirs, executors, successors and permitted assigns.
- 8.03 Where a Permittee wishes to communicate with his company vehicles by means of radio, the Permittee shall post the radio frequency at the start of the road and kilometre markers, and will ensure that all of his company vehicles and those of his subcontractors shall use the posted radio frequency in an appropriate manner.

Black Mount Logging Inc.

9.00 NOTICE

- 9.01 A notice given under this Road Permit must be in writing.
- 9.02 Where a notice is to be given under this Road Permit, it may be
- (a) delivered by hand; or
 - (b) sent by prepaid registered mail addressed to the address
 - (i) specified on the first page of this Road Permit; or
 - (ii) to such other address as is specified in a notice given in accordance with this Part.



**Stacey Gould, Timber Sale Manager,
Chinook BC Timber Sales**

SCHEDULE "R"

ROAD AND STRUCTURE ENGINEERING REQUIREMENTS

1.00 TIMBER MARK

The timber mark for timber cut and removed from the clearing area of the roads authorized for construction under this Permit, and as shown on the Exhibit "A" of this Permit, shall be:

938

84

2.00 GENERAL ROAD CONSTRUCTION, MAINTENANCE, DEACTIVATION, REHABILITATION, AND LOCATION REQUIREMENTS

2.01 The Permittee is authorized to construct, use, maintain and deactivate roads or to rehabilitate the area occupied by those roads that are

- (a) shown on the Exhibit "A" of this Permit, and,
- (b) described in column 1 of Table 1 of this Schedule.

Table 1: Road Sections

1	2	3	4	5	6	7
Road Name	Road Section Length (m)	Start Station	Stop Station	Road Location	Applicable Construction Specification	Permittee Responsible Maintenance/ Deactivation/ Rehabilitation
RF030 (Existing Road)	1257	0+000	1+257	Must Follow Location	N/A (Existing Road)	Deactivation
RF030	778	1+257	2+035	Must Follow Location	Detailed	Deactivation
RF030-500	489	0+000	0+489	Must Follow Location	Detailed	Deactivation

2.02 Where in Table 1 of this Permit:

- (a) the words "must follow location" in column 5 appear opposite the road name in column 1, the Permittee must construct that road in the location as identified in the field by the Timber Sales Manager,
- (b) the words "may vary from location" in column 5 appear opposite the road name in column 1, the Permittee may vary the location of minor sections of that road from the location as identified in the field by the Timber Sales Manager,

Black Mount Logging Inc.

- (c) the word “deactivate” in column 7 appears opposite the road name in column 1, the Permittee must deactivate that road,
 - (d) the word “rehabilitate” in column 7 appears opposite the road name in column 1, the Permittee must deactivate that road and rehabilitate the area occupied by that road.
- 2.03 The Permittee must maintain all roads constructed or used under this Permit in accordance with the specifications set out in Part 5.00 of this Schedule.

3.00 ROAD CONSTRUCTION SPECIFICATIONS

- 3.01 Where in Table 1 of this Schedule:
- (a) the word “general” in column 6 appears opposite the road name in column 1, the Permittee must construct that road in accordance with the General Construction Specifications set out in Part 4.00 of this Schedule;
 - (b) the word “detailed” in column 6 appears opposite the road name in column 1, the Permittee must construct that road in accordance with the Detailed Construction Specifications set out in Appendix I to this Schedule.

4.00 GENERAL CONSTRUCTION SPECIFICATIONS

- 4.01 Subject to paragraph 3.01(a), the Permittee must
- (a) construct curves according to the following curvature specifications:

Curvature Specifications

Radius of Curve (m)	180	90	60	45	35	25	20	15
Minimum Stabilized Surface Width (metres)	4.3	5.3	5.8	6.0	6.5	7.5	8.0	9.0

- (b) ensure that each road constructed under this Licence conforms to
 - (i) subject to clause (ii), the Ministry of Forests, Lands and Natural Resource Operations [L100] standard design load vehicle configuration, or
 - (ii) any variation from the Ministry of Forests, Lands and Natural Resource Operations [L100] standard design load vehicle configuration authorized by the Timber Sales Manager before the commencement of construction of the road,

and

- (c) ensure that each road constructed under this Permit conforms to the General Construction Specifications set out below:

Other General Construction Specifications

Other General Construction Specifications	ROAD IDENTIFIER		
Stumps/roots/logs allowed in road prism outside the road subgrade width (YES/NO)			

Stumps/Roots/Logs allowed under the road subgrade width (YES/NO)			
Minimum road subgrade width other than curves (metres)			
Maximum road subgrade width other than curves (metres)			
Maximum distance between turnouts (metres)			
Useable length / width of turnouts		m X m	m X m
Maximum sustained grade			
Adverse (%)			
Favourable (%)			
Maximum short pitch grade			
Adverse; for a maximum of [100] meters (%)			
Favourable: for a maximum of [200] meters with slack grade preceding or following on a straight runout (%)			
Switchback maximum gradient (%)			
Ditch depth (0.3/0.5 metres)			
Minimum cross-drain culvert diameter (round pipe) (mm)			
Other shapes (opening size) (mm)	mm X mm	mm X mm	mm X mm
Stabilizing required of road surface, with rock ballast or pit-run gravel (YES/NO)			

5.00 ROAD MAINTENANCE SPECIFICATIONS

- 5.01 The Permittee must regularly maintain and repair all roads used or constructed and used under this Permit to ensure safe industrial use of those roads, including the use by third parties, in a timely manner and fashion by doing the following:

Drainage systems:

- (a) ensuring that road surface and slope drainage systems (including ditches, culverts and road crowning, in-sloping and out-sloping) are functional at all times;

Brushing:

- (b) cutting all vegetative growth, including trees and other vegetation on roadway surfaces and roadsides such that
- (i) sight distances are consistent with the road design speed,
 - (ii) snow removal and placement is accommodated without impeding sight distance,
 - (iii) usable road widths will permit the safe passage of vehicles at road widenings or turnouts;

Black Mount Logging Inc.

- (c) identifying and falling all hazard trees adjacent to all rights-of-way before commencing industrial operations;

Surface grading:

- (d) utilizing a grader to perform surface grading to the road, except for those roads with ballast rock surfaces, to
 - (i) thoroughly loosen surfacing material, by cutting, scarification or other methods to address the depth of potholes, rutting or wash-boarding, without causing contamination of the surfacing with the subgrade material or with unsuitable ditch materials,
 - (ii) provide proper road surface drainage and prevent water pooling on the road by shaping the surface crown or sloping the road surface as indicated by the character of the existing surface, and removing grader berms, and
 - (iii) produce a surface that is smooth, uniform, consistent to grade, all to provide haul speeds commensurate with road alignment;
- (e) grading only when moisture content is suitable, or with the addition of water;
- (f) placing or replacing surface aggregate where necessary to achieve the objectives in subparagraph (d) above;

Turnouts:

- (g) ensuring that turnouts are either inter-visible or of a sufficient number and size to accommodate both the traffic volumes and vehicle sizes commonly using that road;

Sign maintenance:

- (h) cleaning, replacing, and reconditioning signs, posts, and markers, including but not limited to, radio frequency call signs, information signs, kilometer markers, traffic control signs, and bridge delineators;

Winter maintenance:

- (i) ceasing all industrial use on the road or sections of the road that display any of the following conditions:
 - (i) rutting to the point that subgrade material mixes with surfacing material;
 - (ii) damage to the subgrade is occurring;
 - (iii) erosion of surfacing material;
- (j) requesting the district manager to authorize closure of the road temporarily while the risk of damage to the road is unacceptably high;
- (k) conducting winter maintenance in a manner such that
 - (i) snow is removed from all or part of the traveled way, including sufficient turnouts, when operations become inefficient, and/or the road would be otherwise unsafe for industrial use,
 - (ii) cut slopes are not undercut,
 - (iii) surfacing material and gravel is not bladed off the road,
 - (iv) snow is removed only from the usable road surface having roadbed support, including turnouts,

- (v) snow banks are breached or “winged” backed to facilitate drainage at a sufficient number of locations to reduce water flow along road surfaces during periods of melt,
 - (vi) roadbed drainage ditches, drainage dips, and culverts are functional during periods of melt;
 - (vii) sand is applied to the bladed road surface as needed to provide proper traction for industrial vehicles where chains will not be suitable or sufficient, and
 - (viii) roads are closed to wheeled vehicles at times when use would be unsafe or when damage to the road could occur.
- 5.02 The Permittee is exempt from the maintenance requirements of paragraph 5.01(d)(iii) in respect of those roads scheduled for deactivation.
- Completion of use:
- 5.03 Upon completion of timber harvesting operations, for all roads constructed under this Permit and for which the Permittee is not responsible to deactivate or rehabilitate, the Permittee must
- (a) immediately before relinquishing its rights under this Permit, leave the road in a condition that conforms to the maintenance specifications stated in paragraph 5.01, or
 - (b) if necessary, return to the Permit area after breakup or snowmelt to complete road maintenance obligations in accordance with the maintenance specifications in paragraph 5.01.

6.00 ROAD DEACTIVATION

- 6.01 Where, in Table 1 of this Schedule, the word “deactivate” in column 7 appears opposite the road name in column 1, the Permittee must, before the expiry of the Timber Sale Licence, deactivate those sections of road identified and must ensure that the deactivation conforms with
- (a) section 82 of the *Forest Planning and Practices Regulation*,
 - (b) every other provision of the *Forest Planning and Practices Regulation* that regulates road deactivation, either specifically or by reference to primary forest activities, and
 - (c) any specifications provided in Part 8.00 of this Schedule.

7.00 REHABILITATION OF AREAS OCCUPIED BY ROADS

- 7.01 Where, in Table 1 of this Schedule, the word “rehabilitate” in column 7 appears opposite the road name in column 1, the Permittee must, before the expiry of the Timber Sale Licence, rehabilitate the area occupied by that road by

Black Mount Logging Inc.

- (a) de-compacting compacted soils,
 - (b) returning displaced surface soils, retrievable side-cast and berm materials onto the area occupied by that road,
- and either
- (c) placing woody debris on the exposed soils, or
 - (d) revegetating the exposed mineral soils.

8.00 SPECIAL CONDITIONS

- 8.01 The TSL holder is required to prepare a deactivation plan prior to commencement of any deactivation works for roads and trails.
- 8.02 The Licensee must grass seed contiguous areas of exposed soil within one year after soil disturbance activity if the area is greater than 0.1 ha in size. The area seeded must be monitored for one growing season after initial treatment and re-applied if necessary to ensure establishment. This will continue to be the Licensees' responsibility until all other obligations associated with the sale are complete. Grass seed must have the following attributes:
 - (a) high sod-forming content;
 - (b) has been certified by the Canadian Seed Growers Association that the seed:
 - (i) meets Common #1 Forage Grade or better standards for varietal purity established by the Association for seed of that kind of species [Seeds Act, Seeds Regulation S.2(1); and
 - (ii) is of native origin
- 8.03 The Permittee must secure the services of a Coordinating Registered Professional (CRP) to coordinate all the services required for the bridge/major crossing projects.
- 8.04 The Permittee must submit in writing, the name and contact information of the Coordinating Registered Professional (CRP), to the Timber Sales Manager one (1) week prior to the start of any bridge/major crossing project.
- 8.05 The Permittee submit any revisions to the bridge/major crossing plans and drawings to the Timber Sales Manager for review prior to construction.
- 8.06 The Permittee must submit to the Timber Sales Manager professionally signed and sealed copies of the FS138 Statement of Construction Conformance, as-built drawings and FS1414 CRP Crossing Assurance Statements for all bridge/major crossings prior to operational use of the structure(s).
- 8.07 Install sumps at culvert inflows to trap ditch line sediment.
- 8.08 Armour seepage points along ditch lines and culvert outflows with coarse rock to prevent erosion.
- 8.09 Where roads are constructed using conventional construction with ditches, install culverts parallel to and 20m to 30m from stream crossings, so that the majority of ditch water is dissipated onto adjacent slopes and is not directly connected to the stream.
- 8.10 Use silt fences and/or straw bales during road construction to trap sediment generated during the construction process.
- 8.11 Stop road construction activities on Road RF030 stations 0+200 to 0+674 and Road RF030-500 stations 0+210 to 0+430 when rain exceeds 15mm per 24 hour period or during snow melt of 10cm or more per 24 hour period.
- 8.12 The Licensee must use overland construction techniques.

APPENDIX I

DETAILED CONSTRUCTION SPECIFICATIONS

Road Name	Start Station	Stop Station	Attachment	Number of Pages	Version or Date
RF030	0+203*	0+247*	A93884_f4_Bridge_Design_RF030 0+221	2	January 19, 2012
RF030	0+633*	0+689*	A93884_f4_Bridge_Design_RF030 0+654	2	January 19, 2012
RF030	1+257	2+035	A93884_f3_Plans_Profiles_Cross_Sections_RF030	9	12/02/09
RF030-500	0+280	0+327	A93884_f4_Bridge_Design_RF030-500 0+313	2	January 10, 2012
RF030-500	0+000	0+489	A93884_f3_Plans_Profiles_Cross_Section_RF030-500	5	12/02/06

*References are to new construction stations not total road length stations.

PLAN / PROFILE

11x17

Road Name: RF030

Legend

Plan P-line Location

Profile Topo

Plan Clearing ROW

Profile Subgrade

Plan Road Edges

Culverts

Plan RP

Data Table

P-Stn m.	Cut Dp. m.	Grade %	V.Brk %	Mass H. cu.m.
0.0	0.0	7	0	0.0
27.8	-0.0	13	6	12.2
46.7	0.0	-1	1	22.8
76.5	0.0	11	1	31.7
93.6	0.0	12	-5	45.6
110.5	0.0	7	1	61.8
126.2	-0.3	8	-2	50.8
133.6	0.2	6	2	51.7
135.6	0.3	8	0	57.2
188.0	0.8	p 1	0	263.0
191.1	1.0	-5	0	293.7
220.9	-1.0	p -3	0	515.8
221.5	-1.0	0	8	510.0
234.0	0.7	8	10	540.6
246.6	0.4	18	-4	619.2
246.9	0.4	14	0	620.4
272.7	0.0	p 8	0	684.5
293.4	0.1	1	-3	708.5
304.6	-0.7	-2	5	724.5
320.6	-0.1	3	3	671.5
350.8	-0.2	5	6	651.8
369.0	-0.0	11	-3	650.1
380.8	-0.1	8	3	656.3
417.1	-0.1	11	0	664.5
438.0	-0.1	10	3	645.7
457.9	0.1	11	-2	636.8
474.5	0.0	9	1	651.5
481.1	-0.1	10	0	656.9

Date of Design: 12/02/09

Page 1 of 2

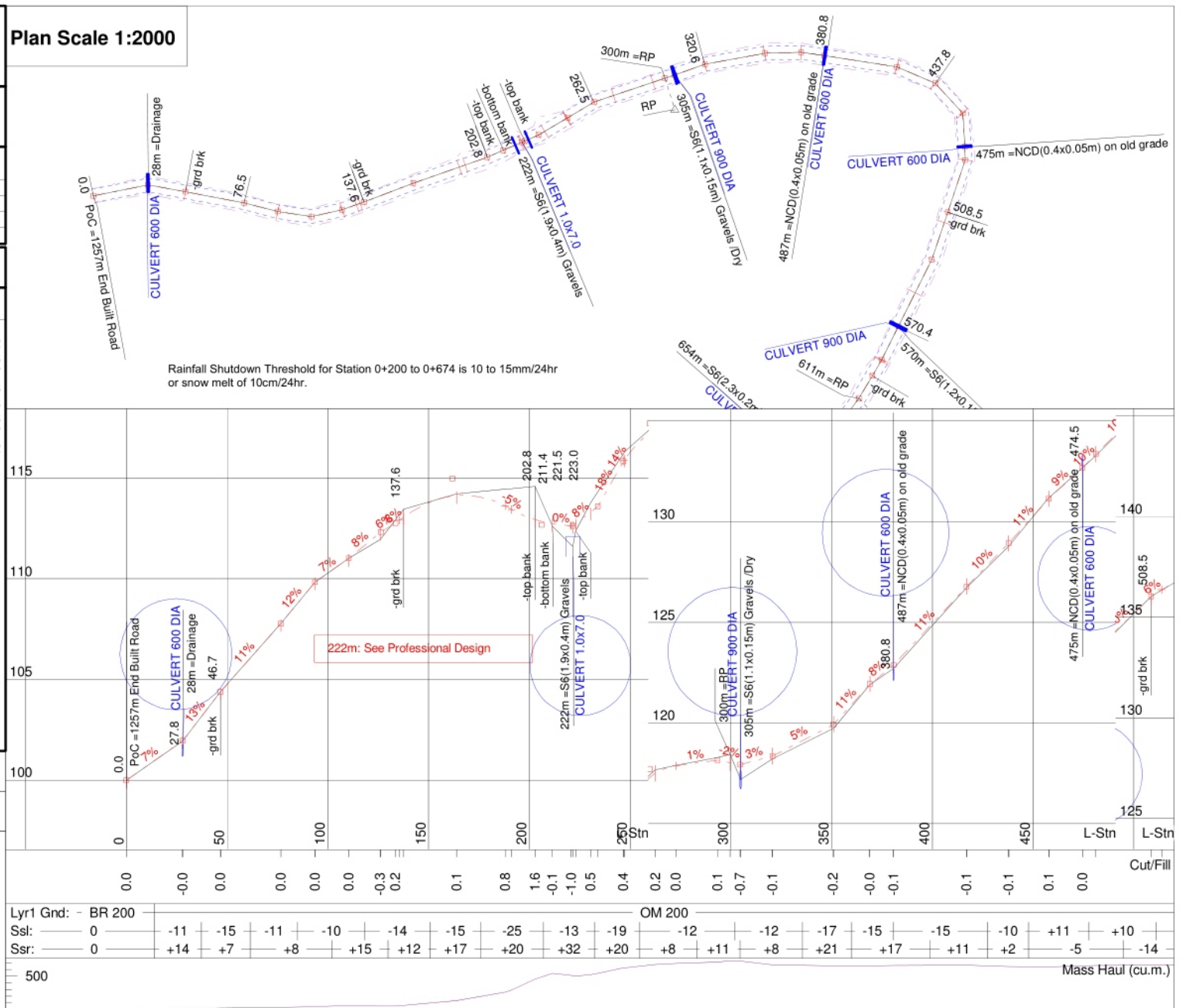
Designed By: Results Based Forest Management Ltd.

Profile Vert Scale 1:200

Profile Horz Scale 1:2000

Comments:

Ensure that water quality objectives are met during construction phases.



PLAN / PROFILE

11x17

Road Name: RF030

Legend

Plan P-line Location

Profile Topo

Plan Clearing ROW

Profile Subgrade

Plan Road Edges

Culverts

Plan RP

Data Table

P-Stn m.	Cut Dp. m.	Grade %	V.Brk %	Mass H. cu.m.
457.8	0.1	9	-2	636.9
474.5	0.0	10	1	651.6
481.1	-0.1	10	0	657.0
508.5	0.0	6	-3	662.5
513.9	-0.0	3	0	661.5
551.7	-0.1	0	0	705.0
570.4	-0.1	4	4	711.5
588.8	-0.2	4	2	714.0
589.6	-0.2	6	0	713.7
632.4	1.1	1	0	1161.9
632.8	1.1	-5	0	1166.2
648.1	-2.3	-4	3	1090.4
653.5	-2.0	-1	3	977.9
660.4	1.3	2	5	945.7
689.1	-0.1	8	-2	1175.9
713.8	0.0	5	0	1189.4
744.0	-0.1	2	-3	1192.4
747.1	0.0	2	0	1193.4

Date of Design: 12/02/06

Page 2 of 2

Designed By: Results Based Forest Management Ltd.

Profile Vert Scale 1:200

Profile Horz Scale 1:2000

Comments:

Ensure that water quality objectives are met during construction phases.

Plan Scale 1:2000

654m: See Professional Design

570m = S6(1.2x0.15m) CULVERT 900 DIA

654m = S6(2.3x0.2m) Gravels CULVERT 2.0x7.0

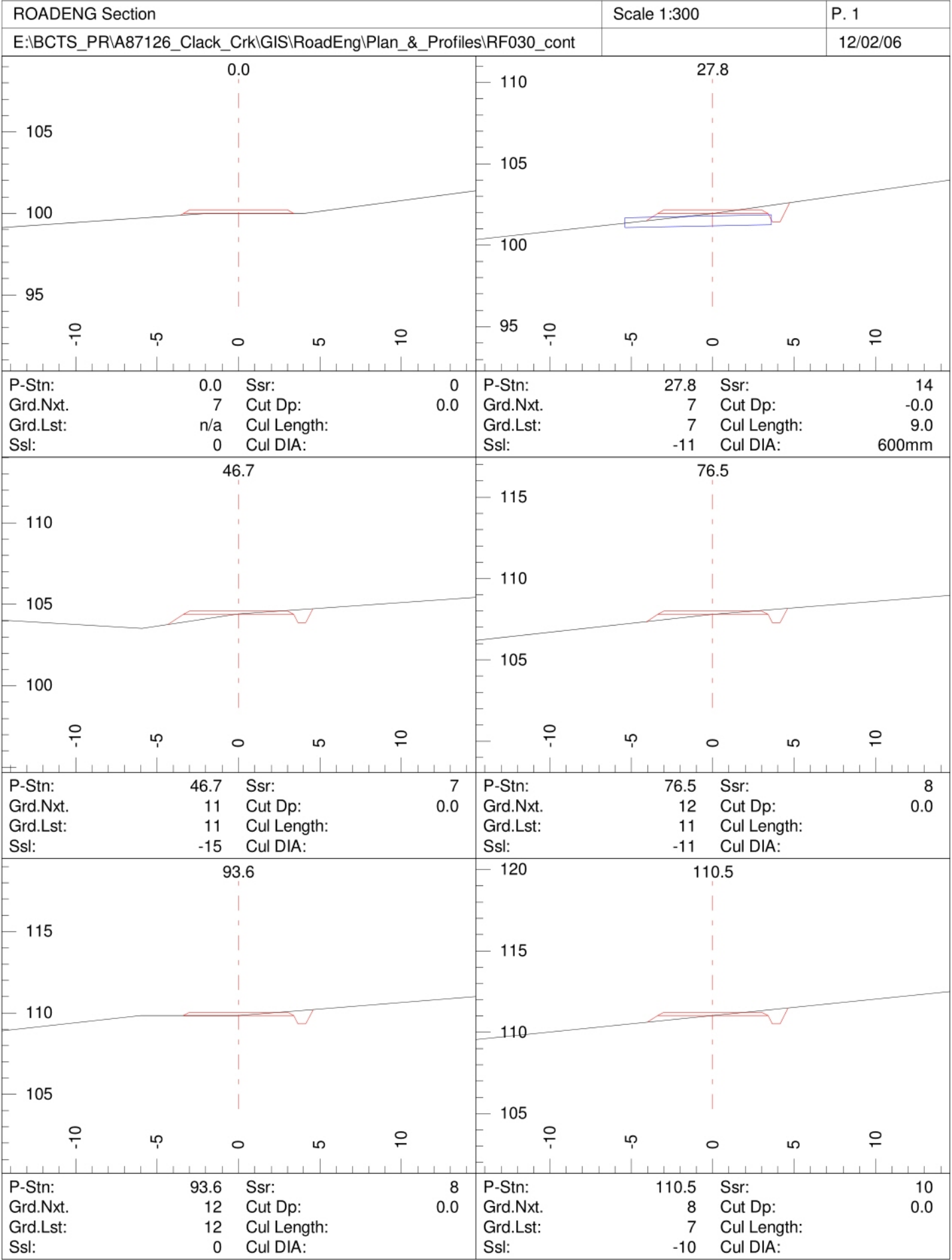
570m = S6(1.2x0.15m) CULVERT 900 DIA

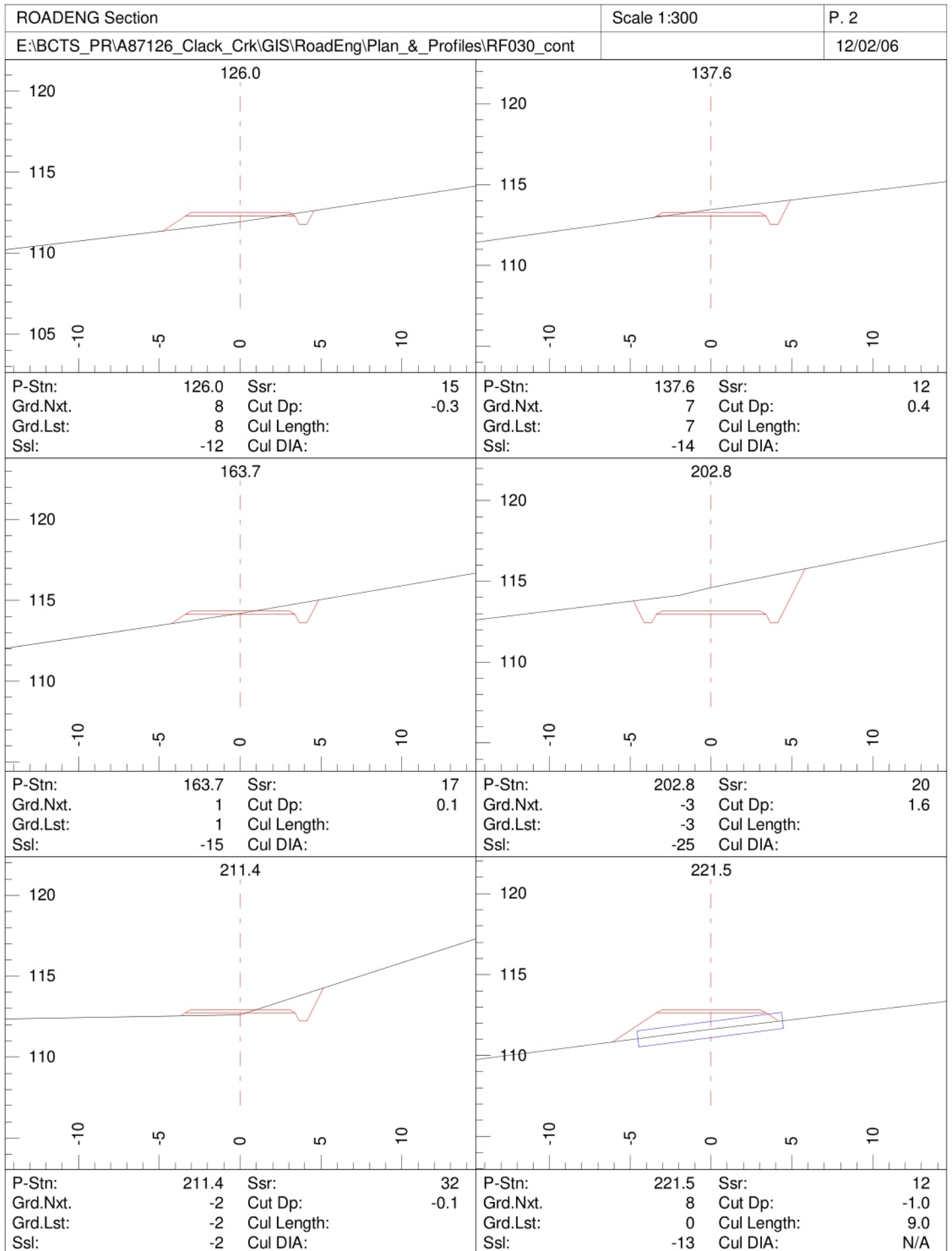
654m = S6(2.3x0.2m) Gravels CULVERT 2.0x7.0

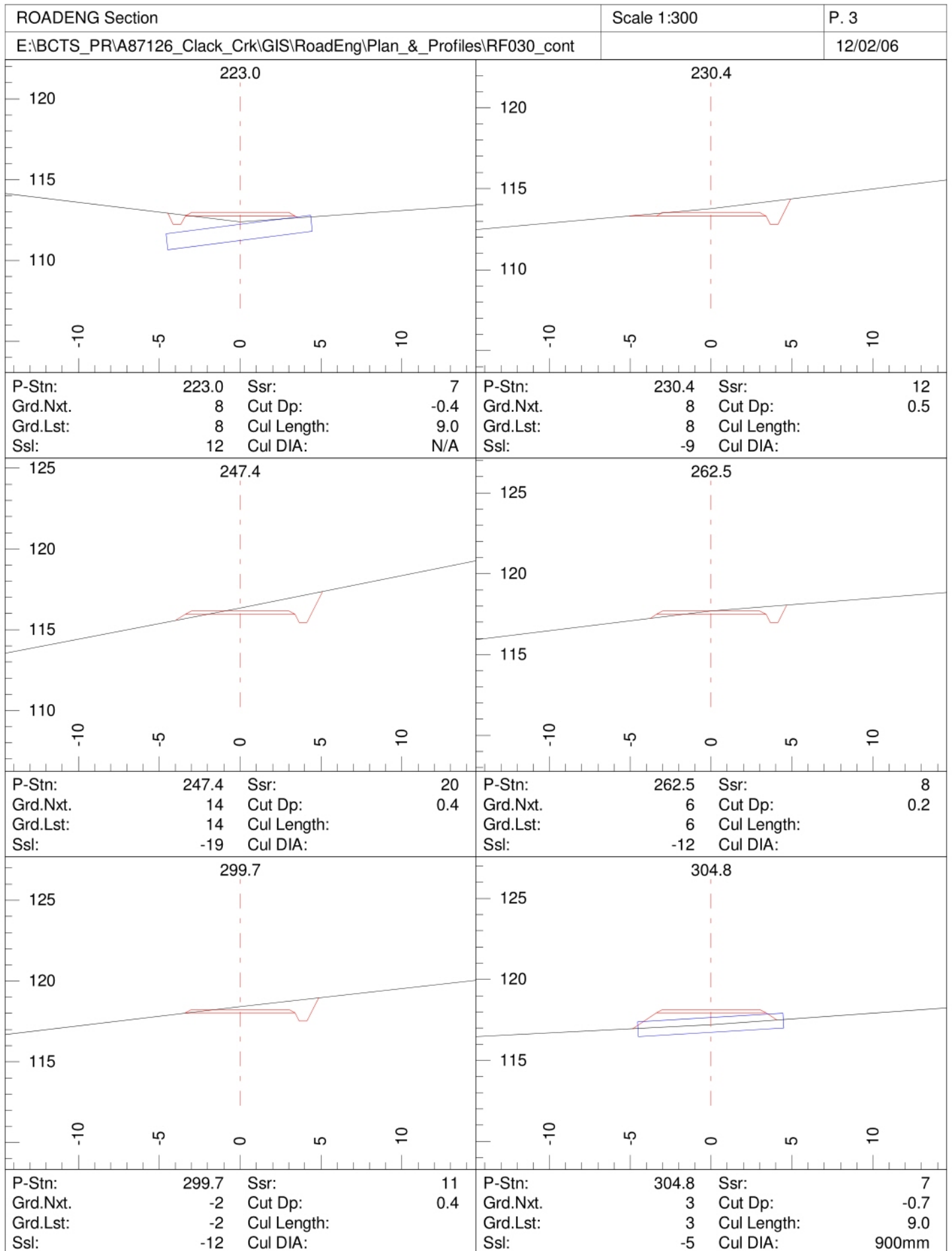
P-Stn m.	Cut Dp. m.	Grade %	V.Brk %	Mass H. cu.m.
457.8	0.1	9	-2	636.9
474.5	0.0	10	1	651.6
481.1	-0.1	10	0	657.0
508.5	0.0	6	-3	662.5
513.9	-0.0	3	0	661.5
551.7	-0.1	0	0	705.0
570.4	-0.1	4	4	711.5
588.8	-0.2	4	2	714.0
589.6	-0.2	6	0	713.7
632.4	1.1	1	0	1161.9
632.8	1.1	-5	0	1166.2
648.1	-2.3	-4	3	1090.4
653.5	-2.0	-1	3	977.9
660.4	1.3	2	5	945.7
689.1	-0.1	8	-2	1175.9
713.8	0.0	5	0	1189.4
744.0	-0.1	2	-3	1192.4
747.1	0.0	2	0	1193.4

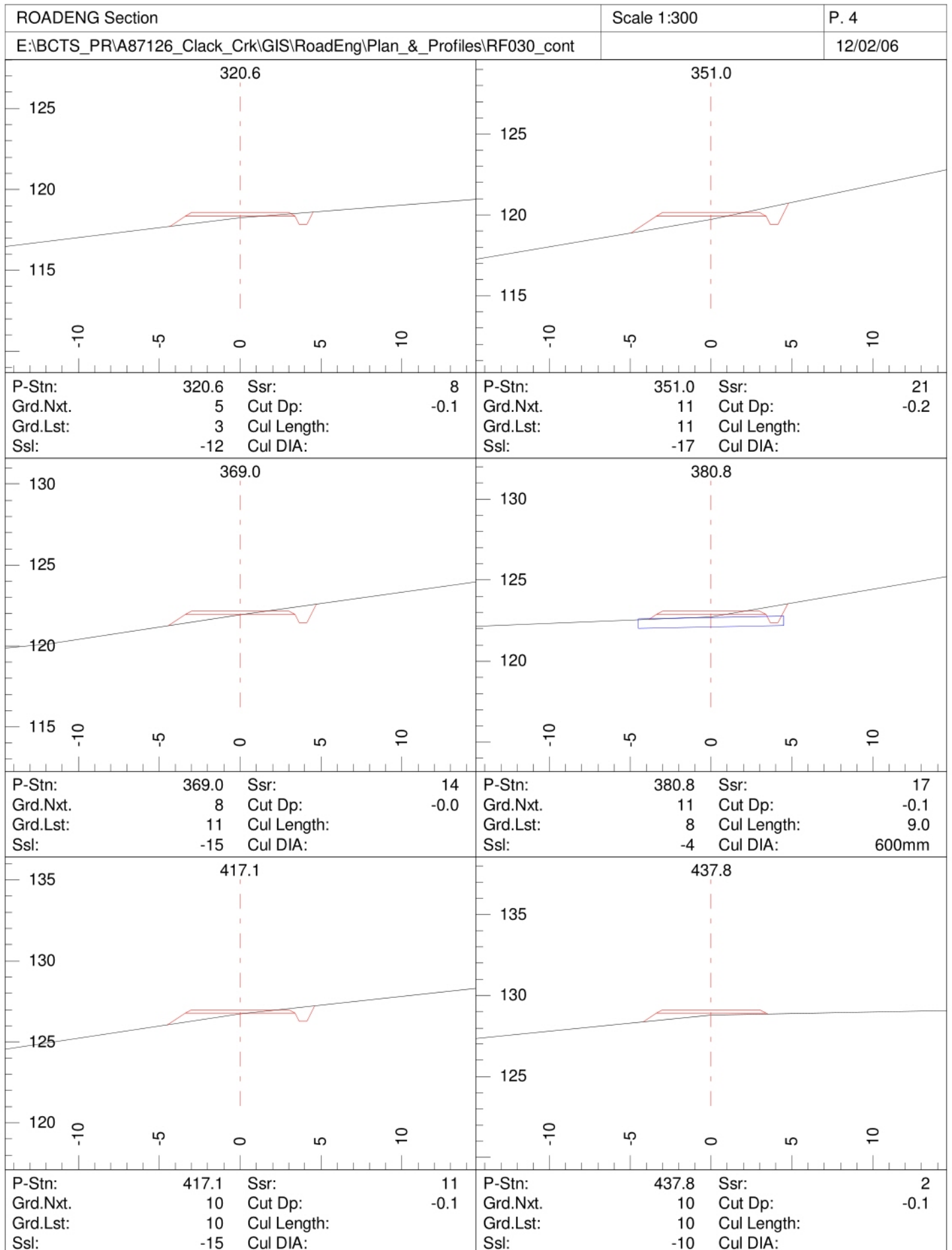
1000

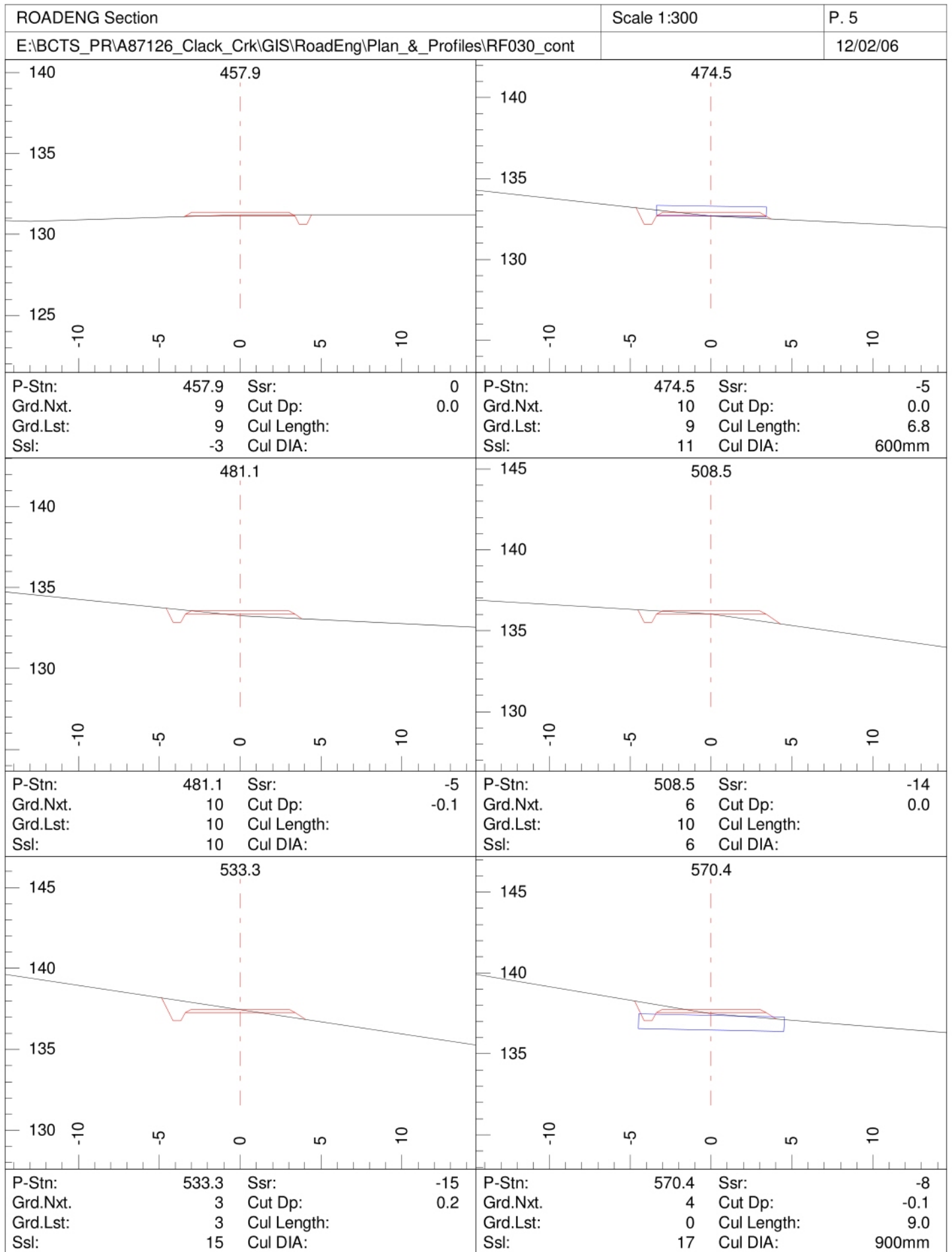
Mass Haul (cu.m.)

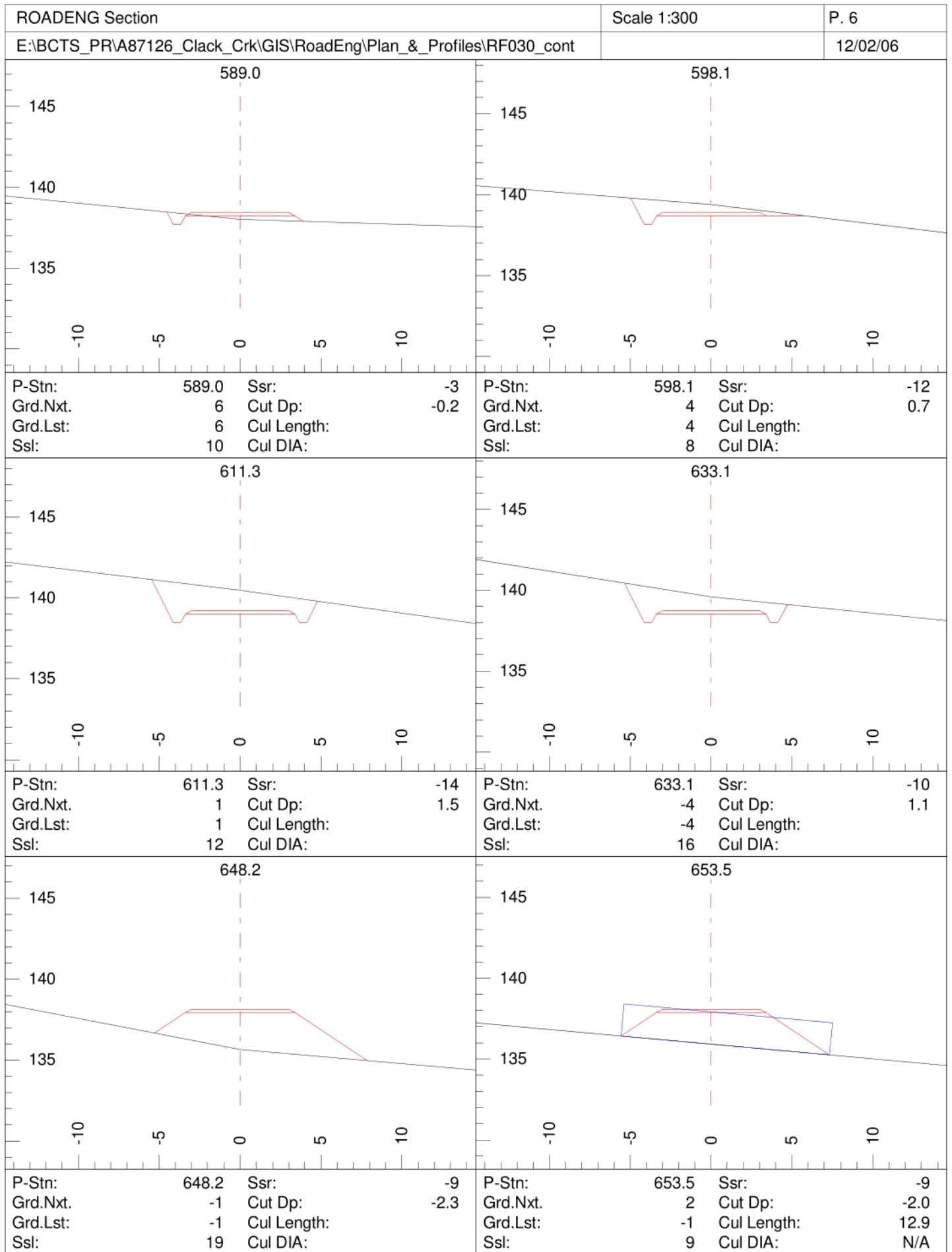


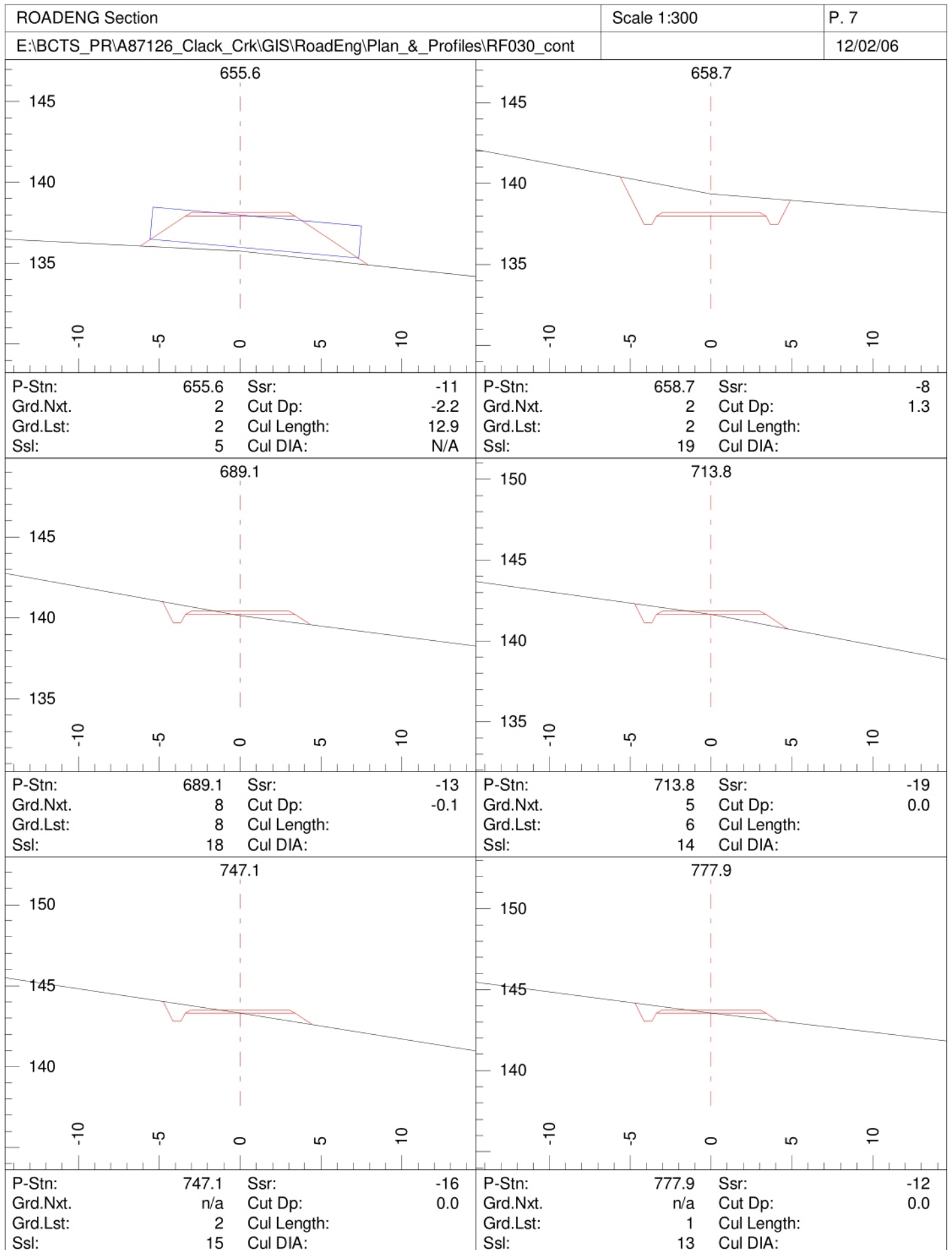


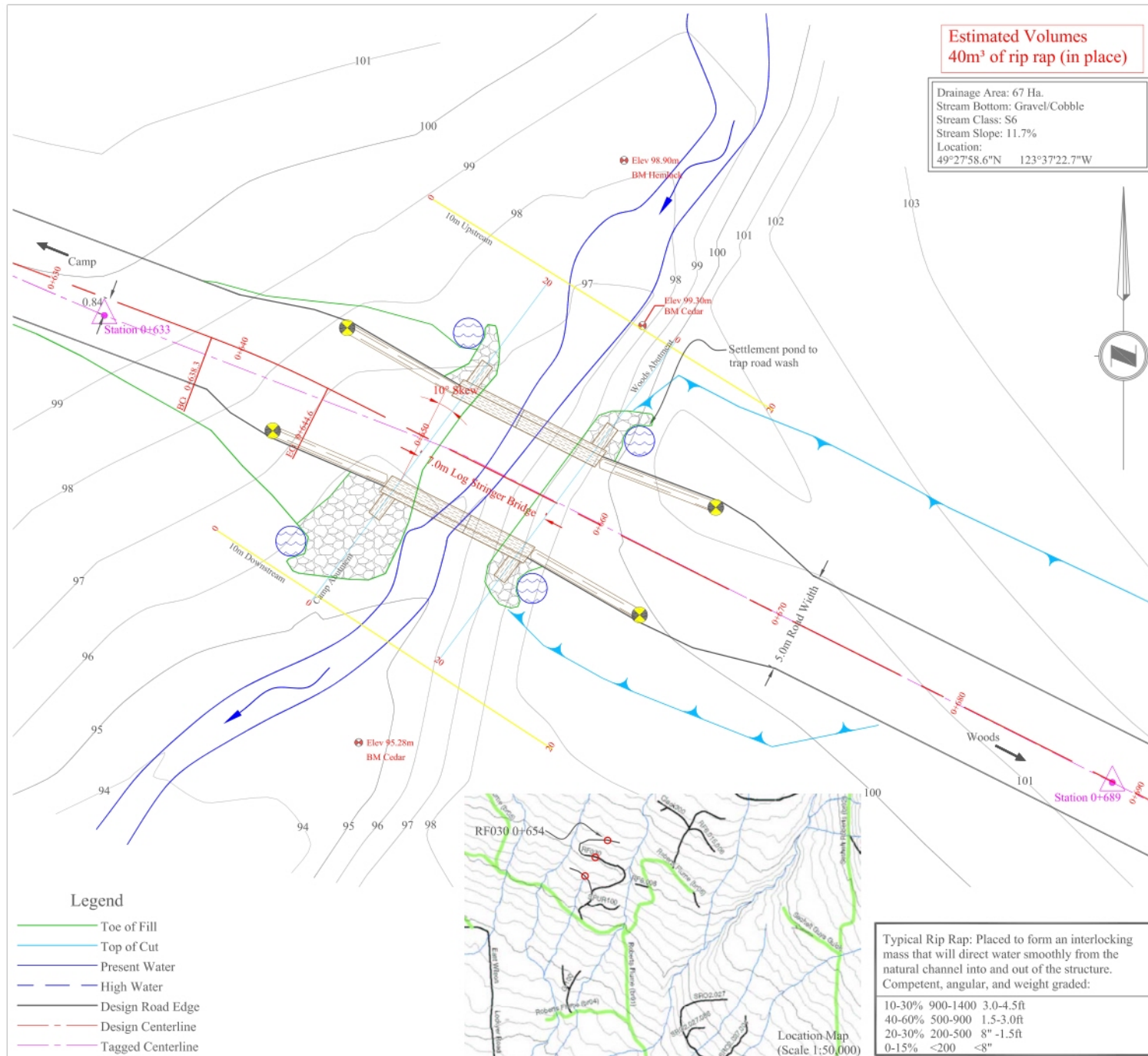












Estimated Volumes
40m³ of rip rap (in place)

Drainage Area: 67 Ha.
 Stream Bottom: Gravel/Cobble
 Stream Class: S6
 Stream Slope: 11.7%
 Location:
 49°27'58.6"N 123°37'22.7"W

Engineering Concerns:

Design Considerations:

This structure is part of the permanent infrastructure of the Clack Creek Operation. The design calls for a 7.0m log stringer bridge on log crib foundations. The approaches of this structure limit the use to log trucks only and it is unlikely to accommodate off highway lowbed trucks.

StoneCroft Project Engineering Ltd. deems this structure to be a low risk structure.

Geotechnical:

A formal geotechnical assessment was not carried out. The site appears to be composed of a blanket of colluvium. There are no signs of slope instability in the area. If excavation of foundations reveals any deviation, StoneCroft is to be advised prior to continuation of work.

Hydrological:

The creek is well contained within its banks. The drainage area above the site is 80 Ha. The Q 100 was developed from historic flows of similar size and characteristic creeks, with local weather pattern considerations, on the west coast of British Columbia.

Material Specifications:

All wood used must be sound, free of rot, loose knots, and excessive sweep or taper.

Design:

Designed to BC Ministry of Forest L-100 truck.

The anticipated longevity of the structure depends on the species of wood used and quality of construction.

Designed to BC Ministry of Forests-"Forest Service Bridge Design and Construction Manual", July 1999.

General Requirements:

Delineators will be installed on all four corners of the bridge.

StoneCroft Project Engineering Ltd. recommends field reviews prior to foundation installation and upon completion of installation.

In the event the size of wood supplied to the site varies significantly from the sizes specified in the drawing, discussion should occur between StoneCroft and the installer to ensure that field modifications meet the design requirements prior to installation.

A danger tree assessment should be completed by a Worksafe approved person prior to works.

Environmental Concerns:

Stream Classification:

"S6" as determined by RBFM. This design meets the requirements of the B.C. legislation at the time of design.

Instream work:

None.

Timing:

During low flows.

Fish Management:

Minimize silt.

Silt Management:

1. Direct surface water away from work site and through settlement ponds where possible.
2. Seed all cuts and fills with approved grass/legumes as soon as weather conditions are favorable.
3. Supply a roll of plastic and/or non-woven geotextile fabric on site during installation.
4. Stop work during extreme adverse weather.
5. Supply a sediment pump and associated hoses on-site during works.

Deleterious Material Management:

Petroleum products will be carefully monitored with no fueling of machinery within the riparian management zone.

All heavy equipment will have a 20 liter emergency spill kit.

Safety Concerns:

A preconstruction meeting will be held prior to any work outlining the environmental and safety concerns of the project. All work will comply to the British Columbia Occupational Health and Safety Regulations and BCTS Environmental Management System (EMS).

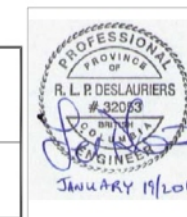
Caution:

- Drawing scale may distort with printing
- Intended to be printed on 11"x17" paper



Typical Rip Rap: Placed to form an interlocking mass that will direct water smoothly from the natural channel into and out of the structure. Competent, angular, and weight graded:

10-30%	900-1400	3.0-4.5ft
40-60%	500-900	1.5-3.0ft
20-30%	200-500	8" -1.5ft
0-15%	<200	<8"



BC Timber Sales - Sunshine Coast

Clack Creek Operation

Conceptual design of: RF030 0+654
 Option #1 - 7.0m Log Stringer Bridge

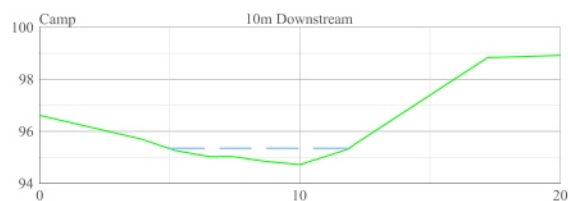
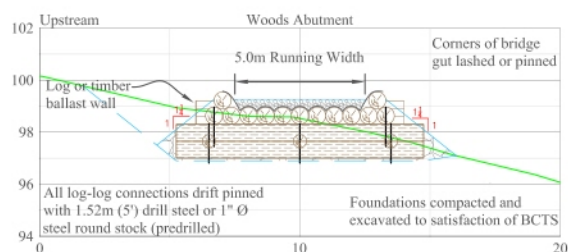
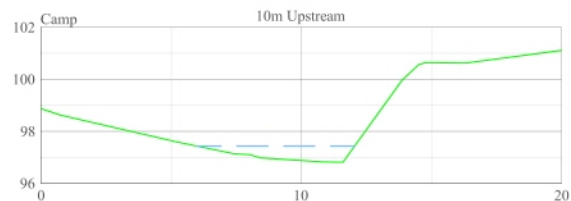
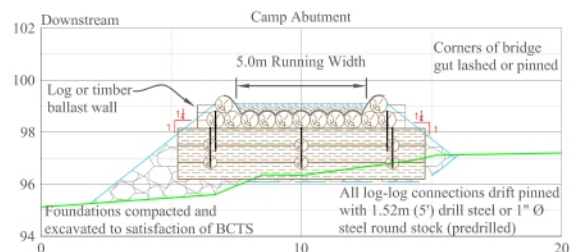
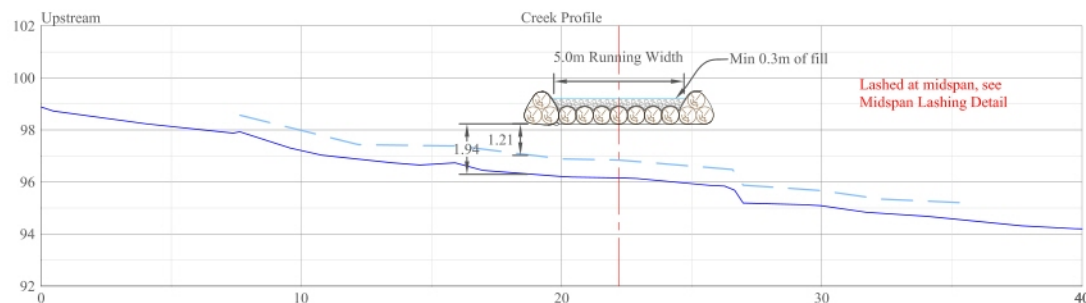
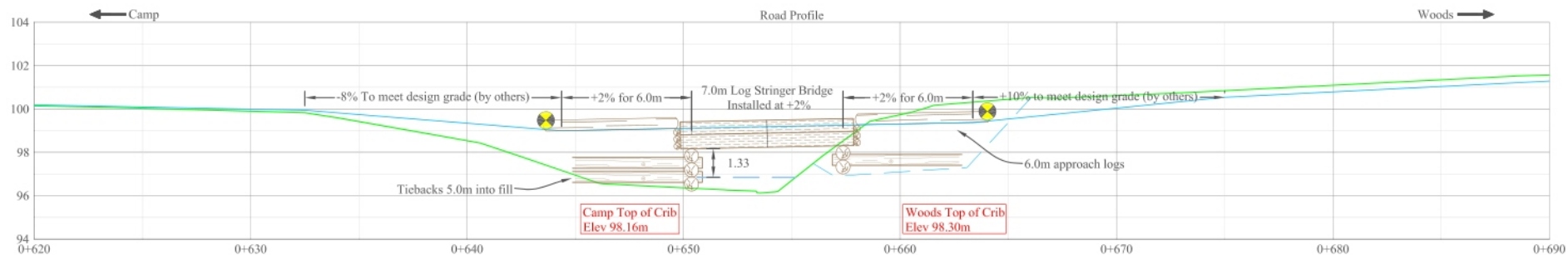
StoneCroft
 PROJECT ENGINEERING

Phone: (250) 337-5789 Fax: 337-5229
 Email: stonecroft@stonecroftengineering.ca
 www.stonecroftengineering.ca

Scale 1 : 200

Surveyed : December 7, 2011
 Revised : January 19, 2012

1166 B1-1



Legend

- Q100
- Creek Bed
- Existing Grade
- Design Grade
- Excavation Line

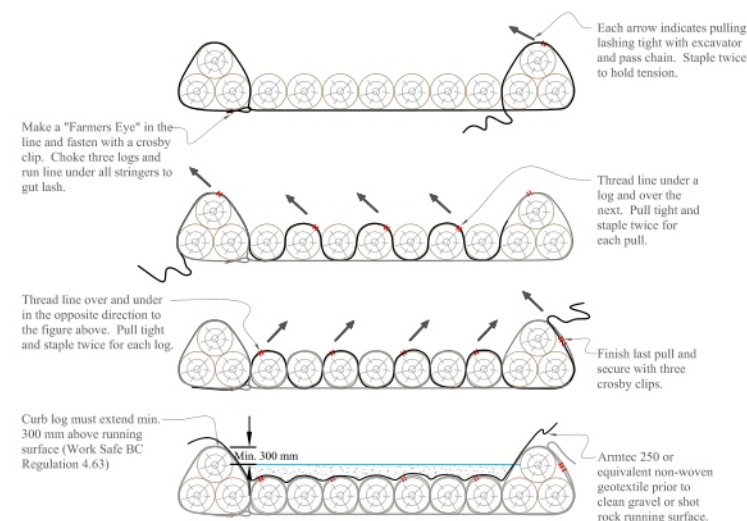
Typical Rip Rap: Placed to form an interlocking mass that will direct water smoothly from the natural channel into and out of the structure. Competent, angular, and weight graded:

10-30%	900-1400	3.0-4.5ft
40-60%	500-900	1.5-3.0ft
20-30%	200-500	8" -1.5ft
0-15%	<200	<8"

Caution:
 • Drawing scale may distort with printing
 • Intended to be printed on 11"x17" paper



Figure 8 Mid-Span Lashing Detail



	Fir	Cedar
Sills (5)	650mmØ top x 9.5m	650mmØ top x 9.5m
Tiebacks (9)	500mmØ top x 6m	500mmØ top x 6m
Longevity	12 - 16 years	20 - 30 years
Stringers (13)	620mm mid Ø x 8m	700mm mid Ø x 8m
Longevity	10 - 12 years	15 - 20 years



BC Timber Sales - Sunshine Coast Clack Creek Operation

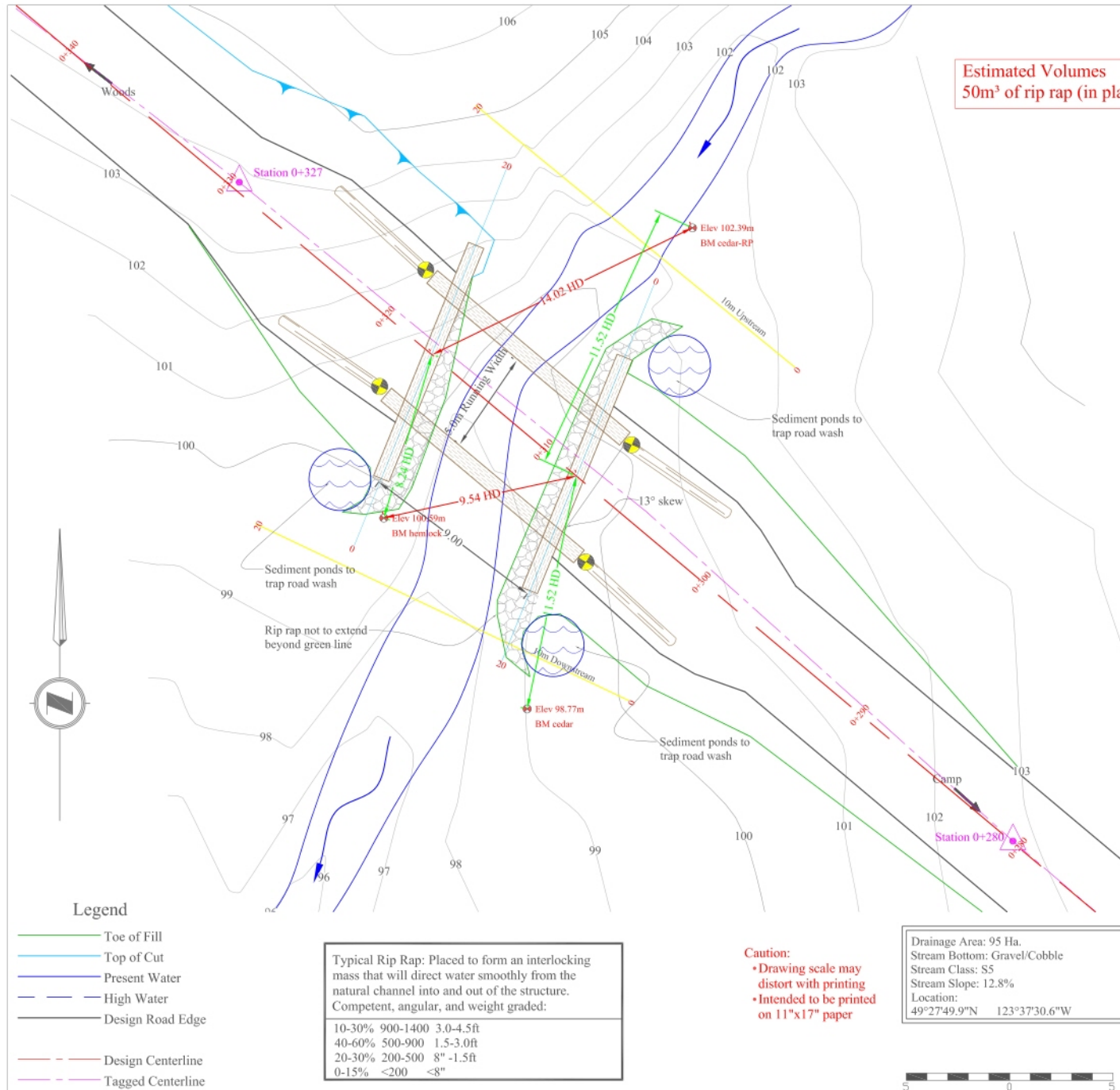
Conceptual design of: RF030 0+654
Option #1 - 7.0m Log Stringer Bridge

StoneCroft
PROJECT ENGINEERING

Phone: (250) 337-5789 Fax: 337-5229
Email: stonecroft@stonecroftengineering.ca
www.stonecroftengineering.ca

Scale 1 : 200
 Surveyed : December 7, 2011
 Revised : January 19, 2012

1166 B1-2



Engineering Concerns:

Design Considerations:

This structure is part of the permanent infrastructure of the Clack Creek Operation. The design calls for a 9.0m log stringer bridge founded on single sill logs built up on rip-rap. The approaches of this structure limit the use to log trucks only and it is unlikely to accommodate off highway lowbed trucks. StoneCroft Project Engineering Ltd. deems this structure to be a low risk structure.

Geotechnical:

A formal geotechnical assessment was not carried out. The site appears to be composed of a blanket of colluvium. There are no signs of slope instability in the area. If excavation of foundations reveals any deviation, StoneCroft is to be advised prior to continuation of work.

Hydrological:

The creek is well contained within its banks. The drainage area above the site is 95 Ha. The Q 100 was developed from historic flows of similar size and characteristic creeks, with local weather pattern considerations, on the west coast of British Columbia.

Material Specifications:

13 - 700 mm Ø x 10.5 m long Douglas fir stringers or 800 mm Ø x 10.5m long cedar stringers.

All wood used must be sound, free of rot, loose knots, and excessive sweep or taper.

Design:

Designed to BC Ministry of Forest L-100 truck .

The anticipated longevity of the structure depends on the species of wood used and quality of construction.

Designed to BC Ministry of Forests-"Forest Service Bridge Design and Construction Manual", July 1999.

General Requirements:

Delineators and approach logs will be installed on all four corners of the bridge.

StoneCroft Project Engineering Ltd. recommends field reviews prior to foundation installation and upon completion of installation.

In the event the size of wood supplied to the site varies significantly from the sizes specified in the drawing, discussion should occur between StoneCroft and the installer to ensure that field modifications meet the design requirements prior to installation.

A danger tree assessment should be completed by a Worksafe approved person prior to works.

Environmental Concerns:

Stream Classification:

"S5" as determined by RBFM. This design meets the requirements of the B.C. legislation at the time of design.

Instream work:

None.

Timing:

During low flows.

Fish Management:

Minimize silt.

Silt Management:

1. Direct surface water away from work site and through settlement ponds where possible.
2. Seed all cuts and fills with approved grass/legumes as soon as weather conditions are favorable.
3. Supply a roll of plastic and/or non-woven geotextile fabric on site during installation.
4. Stop work during extreme adverse weather.
5. Supply a sediment pump and associated hoses on-site during works.

Deleterious Material Management:

Petroleum products will be carefully monitored with no fueling of machinery within the riparian management zone.

All heavy equipment will have a 20 liter emergency spill kit.

Safety Concerns:

A preconstruction meeting will be held prior to any work outlining the environmental and safety concerns of the project. All work will comply to the British Columbia Occupational Health and Safety Regulations and BCTS Environmental Management System (EMS).

BC Timber Sales - Sunshine Coast	
Clack Creek Operation	
Conceptual design of:	RF030-500 0+313 Option #1 - 1 x 9 Fir Log Bridge
StoneCroft PROJECT ENGINEERING	Phone: (250) 337-5789 Fax: 337-5229 Email: stonecroft@stonecrofteengineering.ca www.stonecrofteengineering.ca
Scale 1 : 200	1166 C1-1
Surveyed : November 1, 2010 Revised : Jan. 10, 2012	

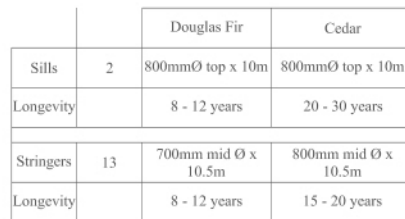
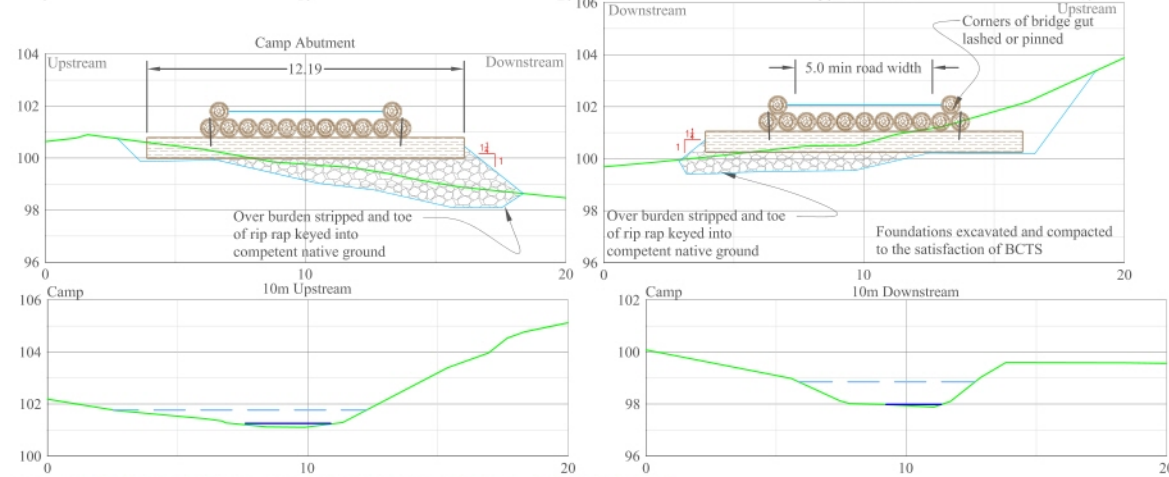
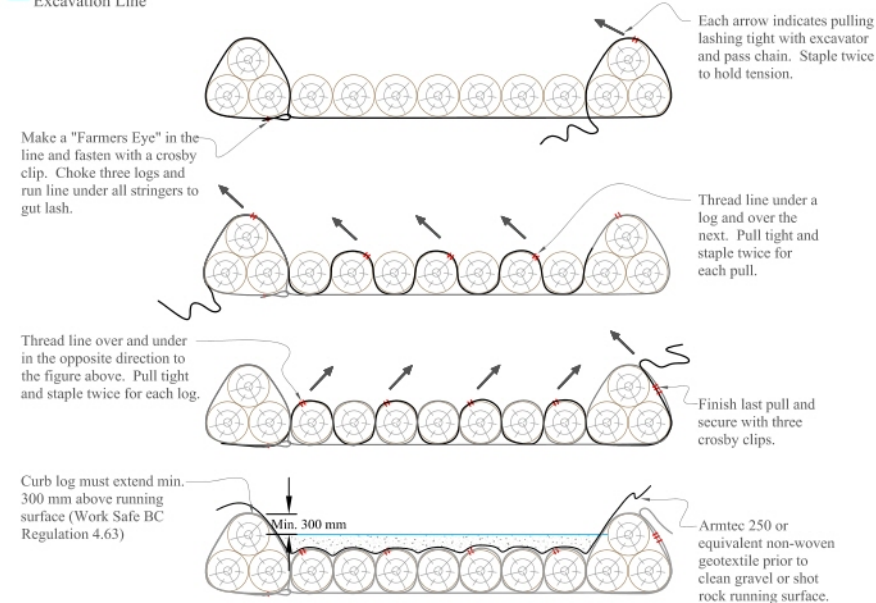
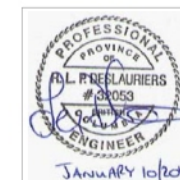
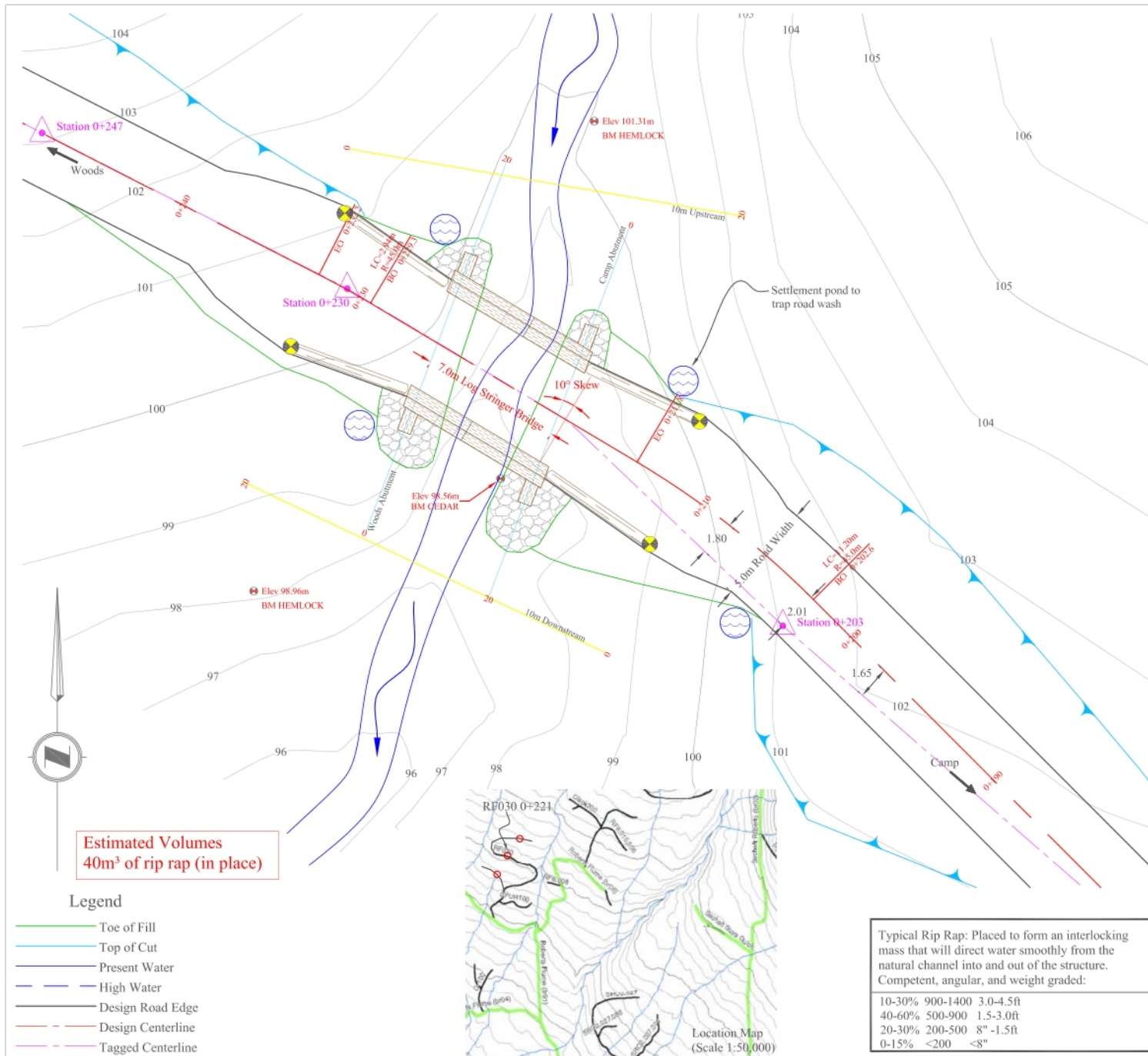


Figure 8 Mid-Span Lashing Detail

[illegible]

1166 C1-1

Surveyed : November 1, 2010
Revised : Jan. 10, 2012



Engineering Concerns:

Design Considerations:

This structure is part of the permanent infrastructure of the Clack Creek Operation. The design calls for a 7.0m log stringer bridge on log crib foundations. The approaches of this structure limit the use to log trucks only and it is unlikely to accommodate off highway lowbed trucks.

StoneCroft Project Engineering Ltd. deems this structure to be a low risk structure.

Geotechnical:

A formal geotechnical assessment was not carried out. The site appears to be composed of a blanket of colluvium. There are no signs of slope instability in the area. If excavation of foundations reveals any deviation, StoneCroft is to be advised prior to continuation of work.

Hydrological:

The creek is well contained within its banks. The drainage area above the site is 80 Ha. The Q 100 was developed from historic flows of similar size and characteristic creeks, with local weather pattern considerations, on the west coast of British Columbia.

Material Specifications:

All wood used must be sound, free of rot, loose knots, and excessive sweep or taper.

Design:

Designed to BC Ministry of Forest L-100 truck.

The anticipated longevity of the structure depends on the species of wood used and quality of construction.

Designed to BC Ministry of Forests-"Forest Service Bridge Design and Construction Manual", July 1999.

General Requirements:

Delineators will be installed on all four corners of the bridge.

StoneCroft Project Engineering Ltd. recommends field reviews prior to foundation installation and upon completion of installation.

In the event the size of wood supplied to the site varies significantly from the sizes specified in the drawing, discussion should occur between StoneCroft and the installer to ensure that field modifications meet the design requirements prior to installation.

A danger tree assessment should be completed by a Worksafe approved person prior to works.

Environmental Concerns:

Stream Classification:

"S6" as determined by RBFM. This design meets the requirements of the B.C. legislation at the time of design.

Instream work:

None.

Timing:

During low flows.

Fish Management:

Minimize silt.

Silt Management:

1. Direct surface water away from work site and through settlement ponds where possible.
2. Seed all cuts and fills with approved grass/legumes as soon as weather conditions are favorable.
3. Supply a roll of plastic and/or non-woven geotextile fabric on site during installation.
4. Stop work during extreme adverse weather.
5. Supply a sediment pump and associated hoses on-site during works.

Deleterious Material Management:

Petroleum products will be carefully monitored with no fueling of machinery within the riparian management zone.

All heavy equipment will have a 20 liter emergency spill kit.

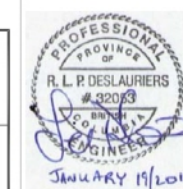
Safety Concerns:

A preconstruction meeting will be held prior to any work outlining the environmental and safety concerns of the project. All work will comply to the British Columbia Occupational Health and Safety Regulations and BCTS Environmental Management System (EMS).

Drainage Area: 84 Ha.
Stream Bottom: Gravel/Cobble
Stream Class: S6
Stream Slope: 11.6%
Location:
49°27'54.0"N 123°37'26.2"W

Caution:

- Drawing scale may distort with printing
- Intended to be printed on 11"x17" paper



BC Timber Sales - Sunshine Coast

Clack Creek Operation

Conceptual design of: RF030 0+221
Option #1 - 7.0m Log Stringer Bridge

StoneCroft
PROJECT ENGINEERING

Phone: (250) 337-5789 Fax: 337-5229
Email: stonecroft@stonecrofteengineering.ca
www.stonecrofteengineering.ca

Scale 1 : 200

Surveyed : December 7, 2011
Revised : January 19, 2012

1166 A1-1

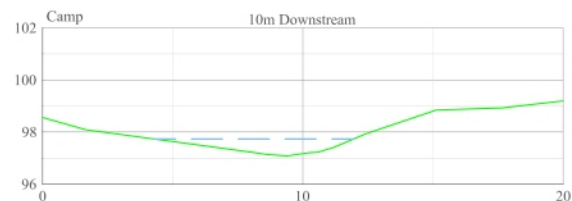
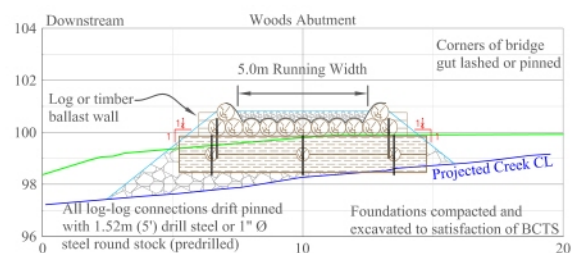
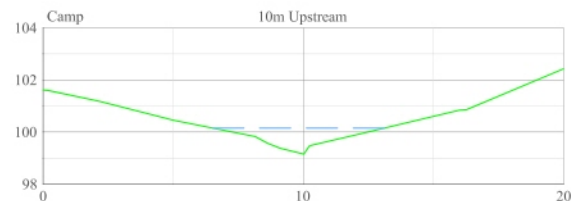
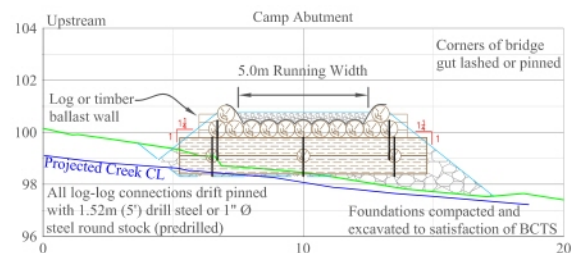
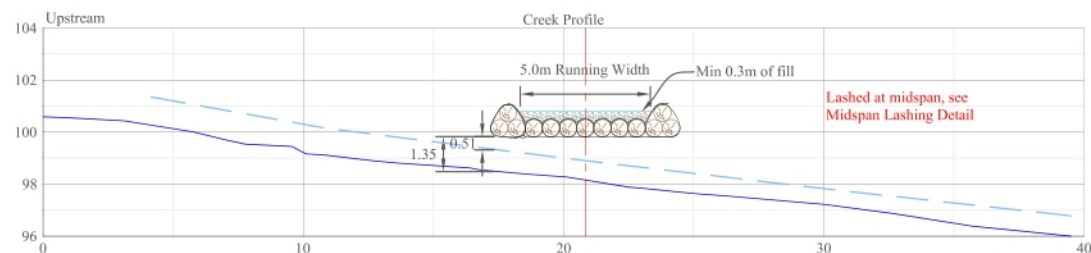
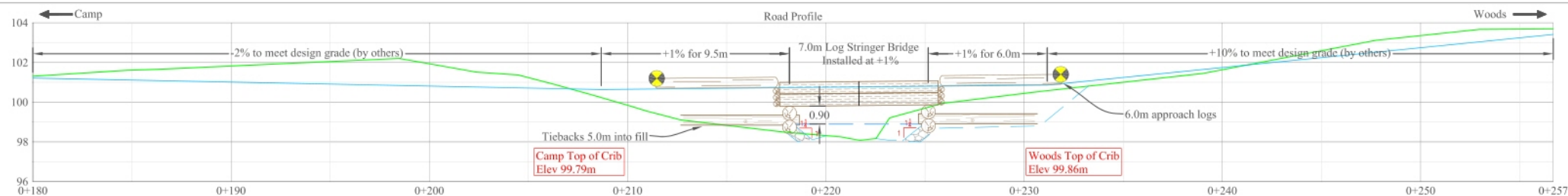
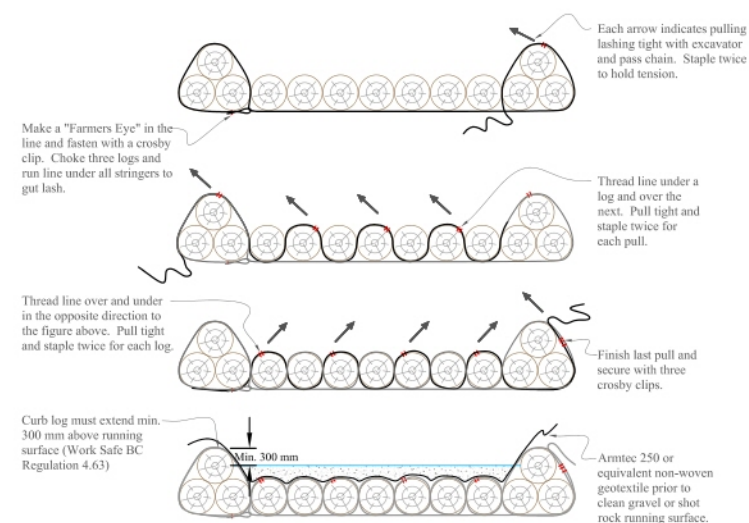


Figure 8 Mid-Span Lashing Detail



Legend

- Q100
- Creek Bed
- Existing Grade
- Design Grade
- Excavation Line

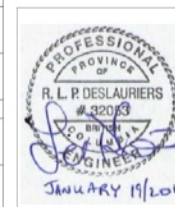
Typical Rip Rap: Placed to form an interlocking mass that will direct water smoothly from the natural channel into and out of the structure. Competent, angular, and weight graded:

10-30%	900-1400	3.0-4.5ft
40-60%	500-900	1.5-3.0ft
20-30%	200-500	8" -1.5ft
0-15%	<200	<8"

Caution:
• Drawing scale may distort with printing
• Intended to be printed on 11"x17" paper



	Fir	Cedar
Sills (4)	650mmØ top x 9.5m	650mmØ top x 9.5m
Tiebacks (6)	500mmØ top x 6m	500mmØ top x 6m
Longevity	12 - 16 years	20 - 30 years
Stringers (13)	620mm mid Ø x 8m	700mm mid Ø x 8m
Longevity	10 - 12 years	15 - 20 years



BC Timber Sales - Sunshine Coast Clack Creek Operation

Conceptual design of: RF030 0+221
Option #1 - 7.0m Log Stringer Bridge

StoneCroft
PROJECT ENGINEERING

Phone: (250) 337-5789 Fax: 337-5229
Email: stonecroft@stonecroftengineering.ca
www.stonecroftengineering.ca

Scale 1 : 200
Surveyed : December 7, 2011
Revised : January 19, 2012

1166 A1-2

PLAN / PROFILE

11x17

Road Name: RF030-500

Legend

	Plan P-line Location		Profile Topo
	Plan Clearing ROW		Profile Subgrade
	Plan Road Edges		Culverts
	Plan RP		

Data Table	
------------	--

P-Stn m.	Cut Dp. m.	Grade %	V.Brk %	Mass H. cu.m.
0.0	0.0		0	0.0
4.9	-0.0	6	6	2.2
27.9	0.0	12	2	14.4
77.0	0.0	14	0	40.9
110.1	0.0	14	-5	55.8
140.0	-0.4	9	6	55.9
158.9	0.2	16	-7	71.1
192.0	0.1	9	1	134.6
221.3	0.2	9	-2	204.5
229.7	-0.8	7	3	187.3
239.7	0.3	10	-2	163.3
260.7	0.4	8	-6	232.0
261.0	0.4	2	0	233.2
297.8	-0.7	p-1	0	339.1
300.8	-0.8	-4	0	317.8
325.6	0.9	p 2	0	152.4
327.2	1.0	8	2	168.1
348.0	-0.1	10	-7	290.2
383.2	-0.1	3	-3	367.1
383.6	-0.1	0	0	367.7
416.8	-0.5	p 4	0	251.0
438.4	-0.0	9	-6	208.9
489.0	-0.0	3	0	217.8

Date of Design:	12/02/06	Page 1 of 1
------------------------	-----------------	--------------------

Date of Design:	12/02/06	Page 1 of 1
------------------------	-----------------	--------------------

Designed By: Results Based Forest Management Ltd.

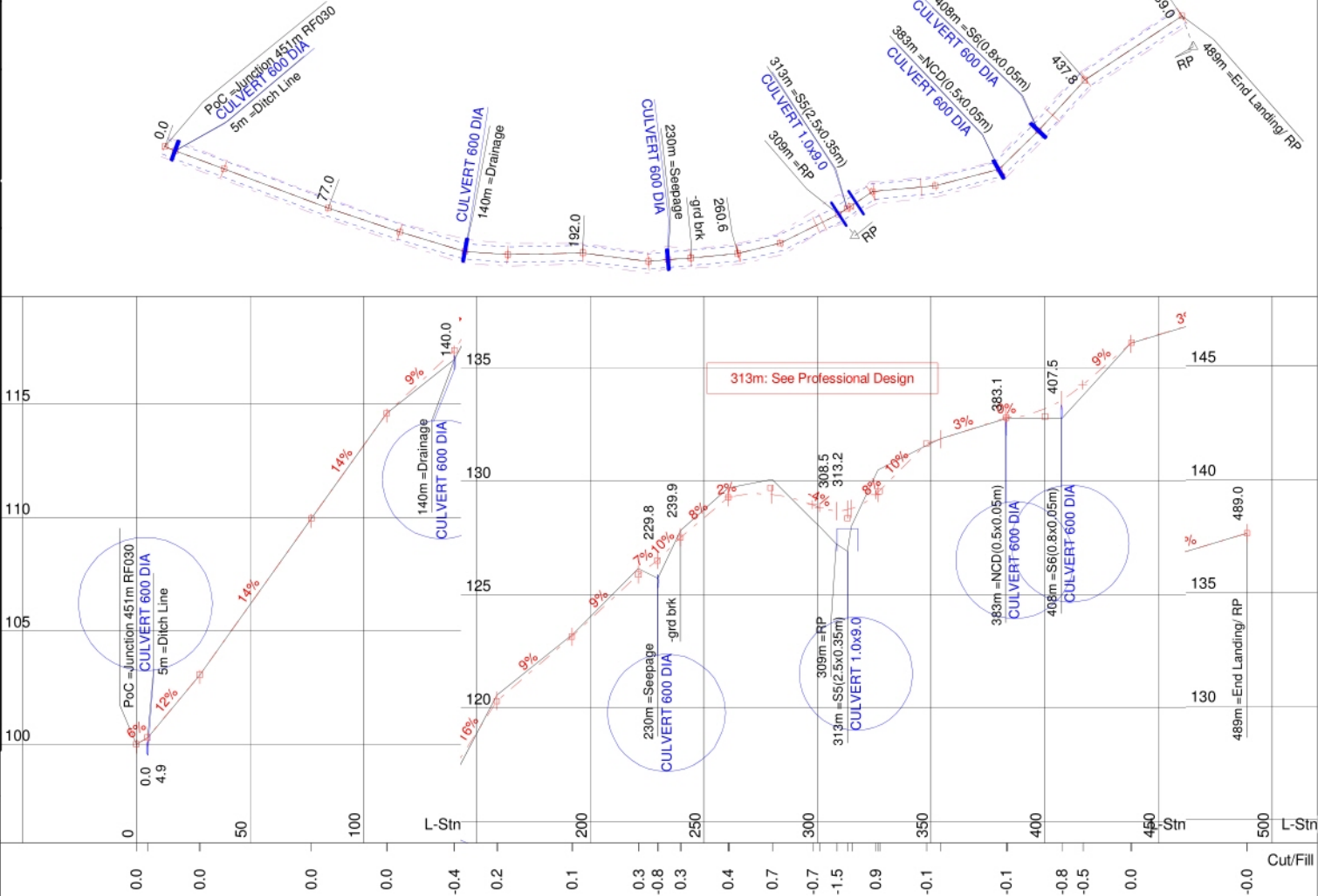
Profile Vert Scale 1:200
Profile Horz Scale 1:2000

Comments:
Ensure that water quality objectives are met during construction phases.



Plan Scale 1:2000

of SHOW MEET OF TOCHU24TH.

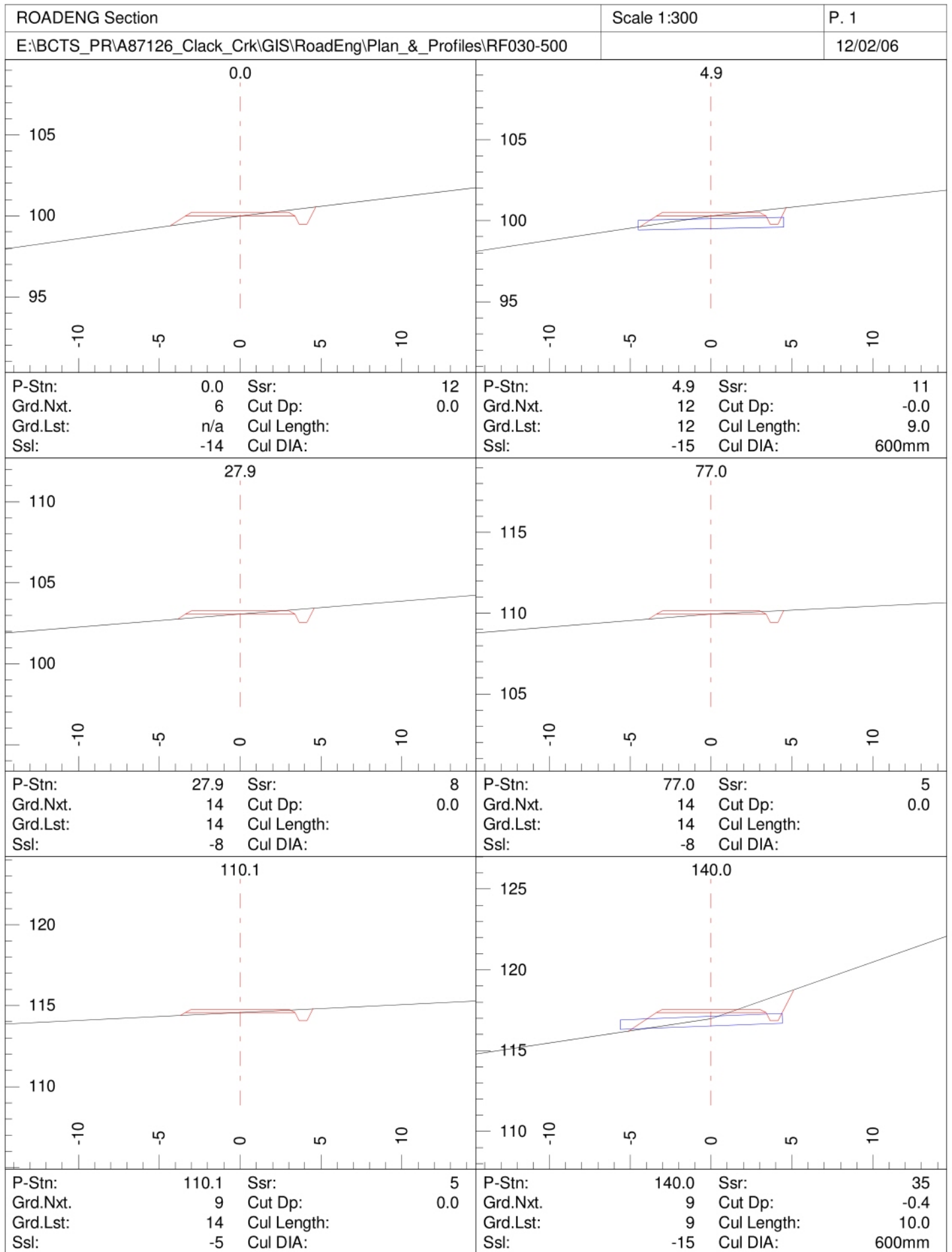


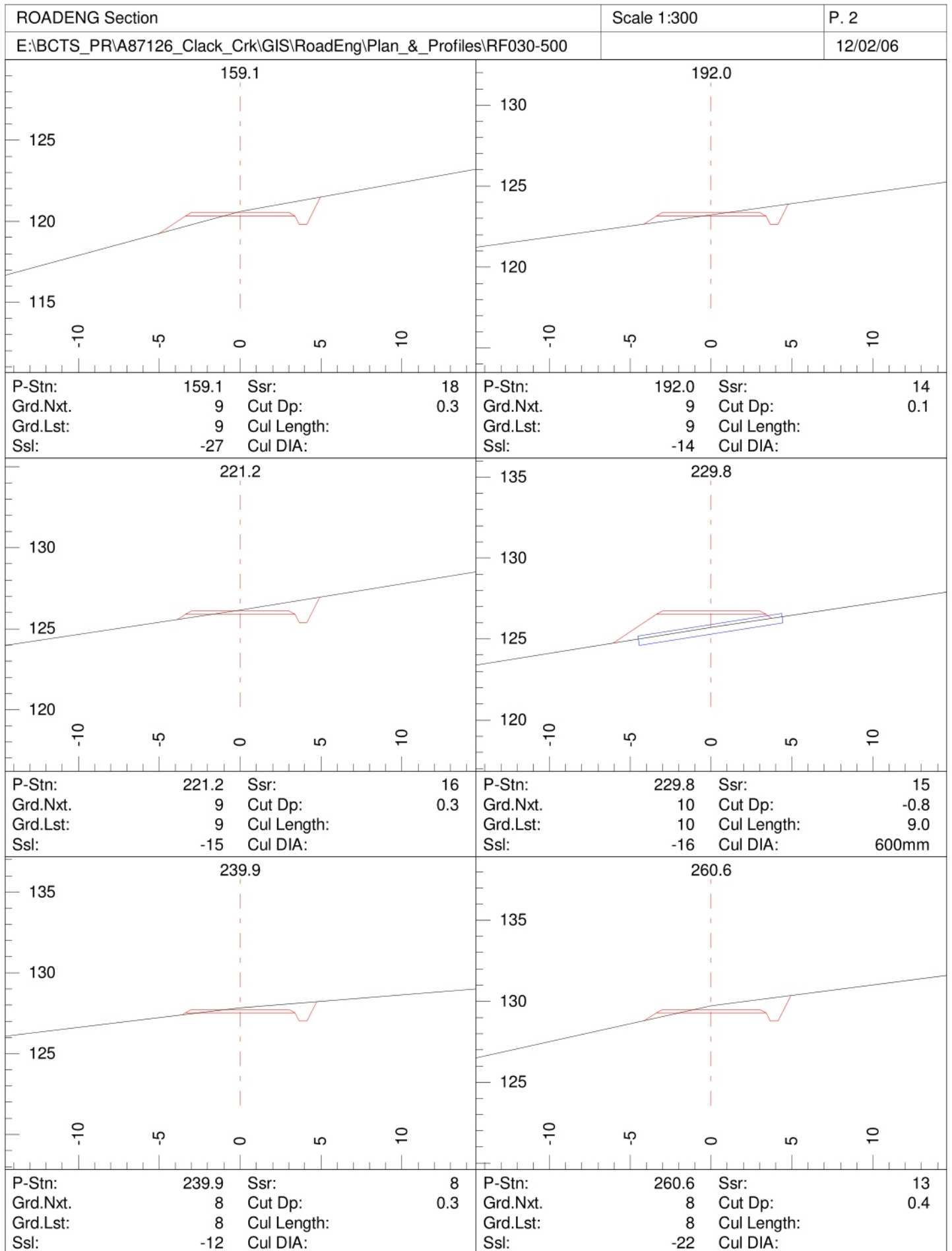
Lyr1 Gnd: BR 200	DB 200
------------------	--------

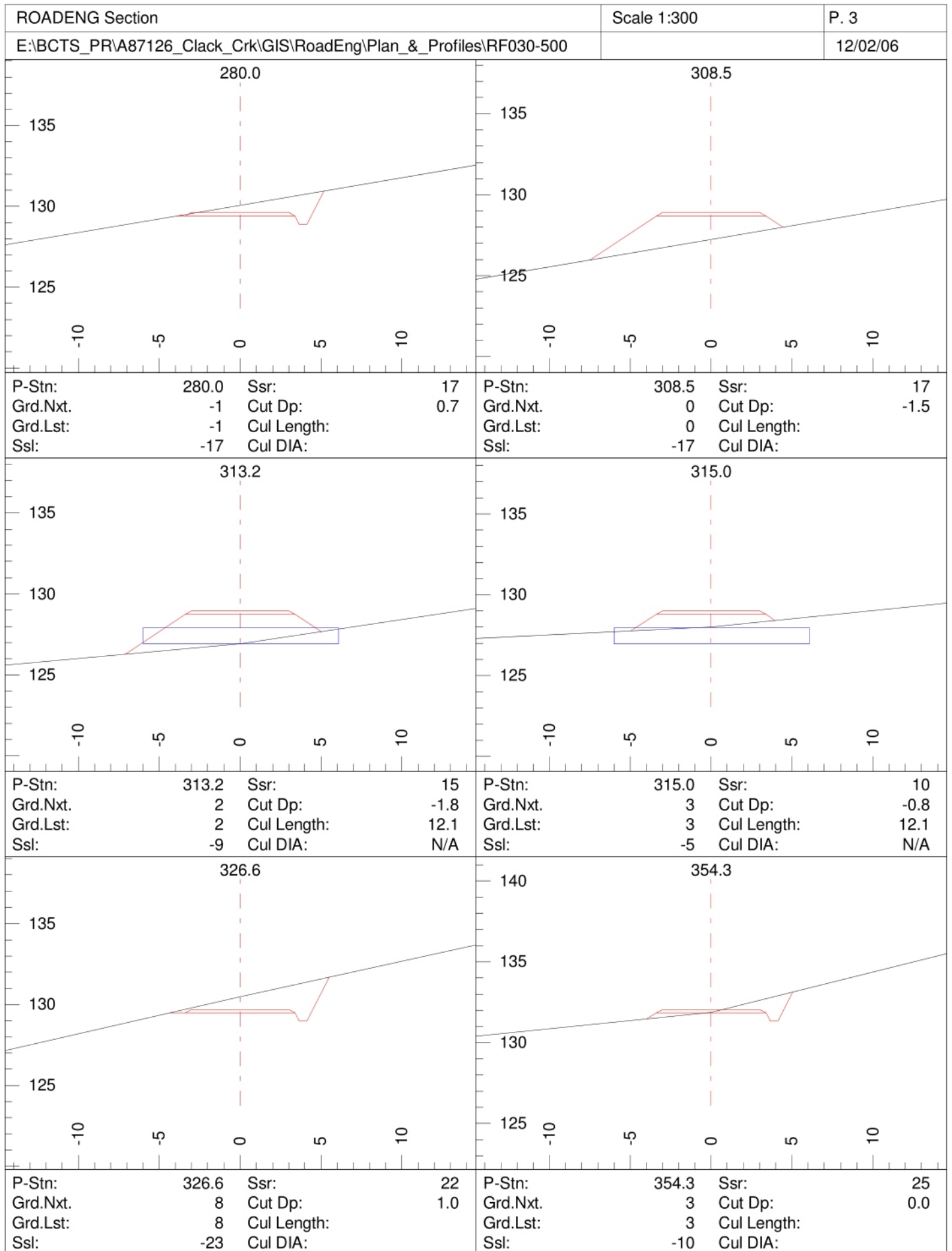
Ssl: — -14 — -15 — -8 — -5 — -15 — -27 — -14 — -16 — -22 — -22 — -17 — -23 — -10 — -8 — -5 — -10 —

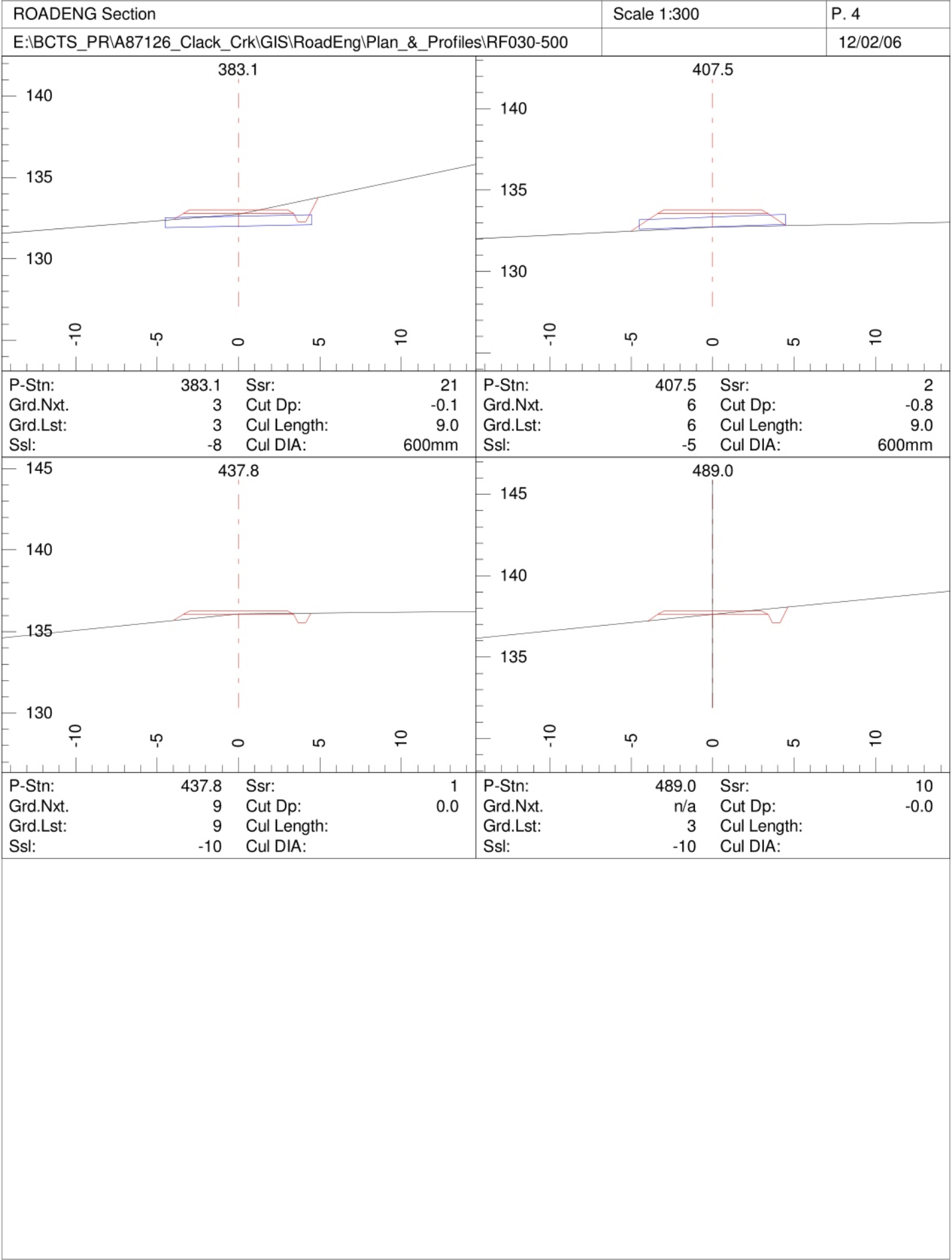
Ssr: — +12 — +11 — +8 — — +5 — — +35 — +18 — +14 — +16 — +13 — — +17 — +22 — +25 — +21 — +2 — — +1 — — +10 —

Mass Haul (cu.m.)

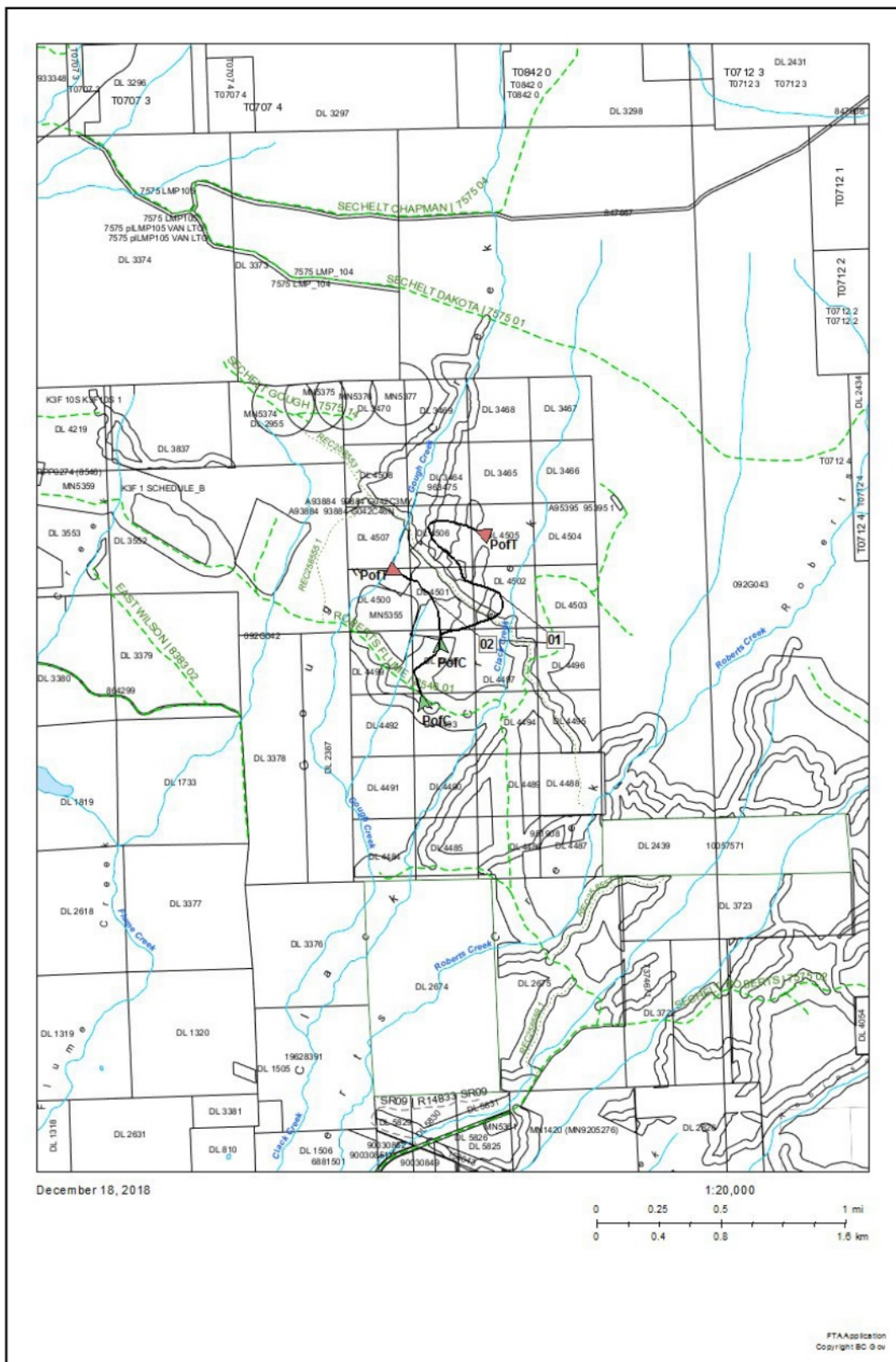








MAP OF : R22327 (shown in bold black)			
FOREST REGION : RSC FOREST DISTRICT : DSC	TSA : 39 LAND DISTRICT : NEW WESTMINSTER DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 39
ESF SUBMISSION ID : 1822085 BCGS MAPSHEET NO : 92G.042	SCALE : 1:20000 at ANSI A Size Length (Km): 2.519	UTM : 10 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 18, 2018





Licencee Conformance Certificate

TO BE COMPLETED BY A REGISTERED PROFESSIONAL FORESTER or REGISTERED FOREST TECHNOLOGIST AFTER COMPLETION OF PRIMARY FOREST ACTIVITIES

Timber Sale Licence (TSL) Number:

BC Timber Sales Business Area:

I am a Registered Professional Forester or Registered Forest Technologist, registered and in good standing, with the Association of British Columbia Forest Professionals. I have taken steps as regulated under the *Foresters Act* and as required by good practice, including ensuring that I am qualified and competent, in order to sign and seal this Conformance Certificate.

In my professional opinion, as per section 106.2 (1) (a) and (b) of the *Forest Planning and Practices Regulation*:

- ☐ the timber harvesting activities conducted under this TSL were consistent with the intended results and strategies identified by the Timber Sales Manager in the Forest Stewardship Plan applicable to this TSL; and
- ☐ the road construction, maintenance, and deactivation activities conducted under this TSL were consistent with the intended results and strategies identified by the Timber Sales Manager in the Forest Stewardship Plan applicable to this TSL.

Signature of Registered Professional Forester or Registered Forest Technologist:

Name of Registered Professional Forester or Registered Forest Technologist (please print):

Please affix professional seal here:

Date Signed (YYYY/MM/DD):

Employer's name and address (please print):

Phone No.:

Email address:

Please note: submission of a completed conformance certificate does not mean that the licensee will not be subject to compliance actions by the Government, if necessary.



TIMBER SALE LICENCE A93884

BETWEEN:

THE TIMBER SALES MANAGER, on behalf of
HER MAJESTY THE QUEEN IN RIGHT
OF THE PROVINCE OF BRITISH COLUMBIA,
(the "Timber Sales Manager")

AND:

Black Mount Logging Inc.

(the "Licensee")

WHEREAS:

- A. On April 1, 2012 and amended on May 16, 2018 the Minister gave effect to a Forest Stewardship Plan identifying the areas authorized to be harvested under this Licence, except for areas exempted from the requirement for a forest stewardship plan;
- B. The Crown timber authorized to be harvested under this Licence is certified pursuant to Sustainable Forestry Initiative (SFI) forest certification, registration # PRI-SFI-FM-057, and the Timber Sales Manager has subscribed to specific objectives in planning the Licence as set out in the BC Timber Sales Provincial SFI Sustainable Forest Management Plan;
- C. Applications for this Licence were invited by advertising in the prescribed manner under SECTION 20 OF THE *FOREST ACT*;
- D. Applications were restricted to BC timber sales enterprises;
- E. The Licensee is registered as a BC timber sales enterprise in the appropriate category;
- F. The Licensee has offered, among other things, to pay stumpage under Part 7 of the *Forest Act* and a bonus offer of **\$161,222.55** in respect of timber authorized to be harvested under this Licence;
- G. The Licensee's application was approved by the Timber Sales Manager under SECTION 20 OF THE *FOREST ACT*; and
- H. The parties have entered into this Licence as required under SECTION 20 OF THE *FOREST ACT*.

THE PARTIES agree as follows:

1.00 GRANT OF RIGHTS AND TERM

1.01 Subject to this Licence, the Licensee

- (a) may during the term of this Licence harvest merchantable Crown timber from the areas of land authorized to be harvested on the map attached as Exhibit "A" to this Licence (the cutting authority area), and

- (b) for the purpose of exercising the rights under this Licence may enter onto these areas.
- 1.02 The Licensee must not fell, buck or remove timber that is standing, dead or down, as the case may be, if
 - (a) the timber is specified as reserved timber elsewhere in this Licence, or
 - (b) under an operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for any reason, including silviculture, biodiversity or other forest management reasons, unless otherwise provided in Schedule "A" to this Licence.
- 1.03 The term of this Licence commences on the date the Timber Sales Manager signs this agreement and ends on the earlier of **twenty-four (24) months** after that date or the date that the Timber Sales Manager gives notice to the Licensee that all contractual and legislative obligations associated with this Licence have been completed.
- 1.04 This Licence is not replaceable under the *Forest Act*.

2.00 EXTENSIONS

- 2.01 The term of this Licence may be extended subject to the *Forest Act*.

3.00 SURRENDER

- 3.01 The surrender of this Licence is subject to the *Forest Act*.

4.00 SPECIAL CONDITIONS AND REQUIREMENTS

- 4.01 The Licensee will meet with the Timber Sales Manager at a mutually agreed upon location, date and time
 - (a) before beginning primary logging on the cutting authority area, or
 - (b) if primary logging is delayed for more than 90 calendar days after the date of the meeting held in accordance with subparagraph (a), at a date and time not less than seven days before commencing primary logging,at which meetings the Timber Sales Manager and the Licensee will review the current operational requirements applicable to the cutting authority area.
- 4.02
 - (a) The Licensee must, before beginning operations on the cutting authority area or related permit areas, notify the Timber Sales Manager of the name of the person(s) who will be responsible for supervising operations on those sites and who will be present on the site at all times ("the supervisor"), and
 - (b) If after beginning operations, the supervisor identified in (a) is changed, the Licensee must notify the Timber Sales Manager as to the name of the new supervisor within 5 days of the change occurring.
- 4.03 The Licensee must implement the Environmental Management System pertaining to this Licence.
- 4.04 The Licensee must not erect or operate a sawmill on the cutting authority area.

- 4.05 Subject to paragraph 4.04, the Licensee may manufacture special forest products on the cutting authority area provided that the manufacturing of those products does not commence until after the quantity and quality of the waste on the cutting authority area has been determined through a waste assessment under Part 6.00.
- 4.06 The Licensee must provide notice to the Timber Sales Manager of each harvest method that the Licensee intends to use on the cutting authority area at least 5 days before commencing operations on the cutting authority area.
- 4.07 If, at any time during the term of this Licence, the Licensee intends to use a harvest method that is different from a method given in the notice under paragraph 4.06, the Licensee will notify the Timber Sales Manager of that decision and method no less than 5 days before the Licensee begins to use that method.
- 4.08 The Licensee must comply with the conditions and requirements set out in the Schedules to this Licence.
- 4.09 The Licensee must have a plan that covers primary forest activities on the cutting authority area prior to commencement of primary forest activities.
- 4.10 The Licensee must amend the plan referred to in paragraph 4.09 before the Licensee intends to conduct primary forest activities in a way that is different from what is described in the plan.
- 4.11 The Licensee must submit the plan or amendment referred to in paragraphs 4.09 or 4.10 if requested by the Timber Sales Manager.
- 4.12 The licence is subject to and the licensee must comply with the Sunshine Coast Forest Stewardship Plan.

5.00 SAFETY

- 5.01 The Licensee must ensure, prior to commencing activities on the cutting authority area, and throughout the term of this Licence,
 - (a) that all individuals, corporations or partnerships who provide direction to workers or contractors on or in relation to the cutting authority, and on or in relation to the area described in the Exhibit "A" to the Road Permit issued to the holder of this Licence, are
 - (i) certified in the BC Forest Safety Council SAFE Company program as an independent small employer, or
 - (ii) endorsed by the BC Forest Safety Council SAFE Company program as a new entrant to the industry, or
 - (iii) certified under another safety certification scheme recognized by BC Forest Safety Council or BC Timber Sales, or
 - (iv) work for an employer who satisfies the qualifications in clauses (i), (ii), and (iii) above, and
 - (b) that an individual, corporation or partnership does not provide direction on or in relation to the areas described in this paragraph unless the required certification or endorsement referred to in this paragraph is maintained and in good standing.
- 5.02 (a) The Licensee will keep a list of the names of employers or parties directing works on the area described in paragraph 5.01.

- (b) That list must include:
 - (i) the names of each employer or firm as it is registered with WorkSafeBC, and
 - (ii) the certification status of each employer or firm with the BC Forest Safety Council SAFE Company program or other recognized safety certification schemes, and
- the Licensee, upon request, will provide a copy of that list to the Timber Sales Manager.

6.00 WASTE ASSESSMENT

- 6.01 The Licensee must pay to the government a waste assessment for waste.
- 6.02 Upon commencing timber cutting, the total amount payable in respect of waste under this licence will be \$1.00.

7.00 TIMBER MARK

- 7.01 The timber mark(s) for the timber harvested under this Licence (is/are):
938
84
- 7.02 If directed by the Timber Sales Manager, the Licensee must erect signs at all exits from the cutting authority area, clearly showing the timber mark(s) referred to in paragraph 7.01.
- 7.03 The Licensee must mark all timber in the prescribed manner before transporting timber from the cutting authority area.

8.00 STUMPAGE and BONUS OFFER

- 8.01 Stumpage is payable to the Province in respect of the total volume of Crown timber authorized to be harvested under this agreement whether that timber is harvested or not.
- 8.02 The total amount of stumpage payable has been calculated by using the volume and quality of the timber provided by a cruise of the timber.
- 8.03 Subject to paragraph 12.01(a), upon commencing timber cutting, the total amount of stumpage that will become payable will be **\$1,908,880.29**.
- 8.04 Subject to paragraph 12.01(c), upon commencing timber cutting, the total amount of bonus offer that will become payable will be **\$161,222.55**.
- 8.05 After commencing timber cutting, the Licensee will make
 - (a) monthly stumpage payments to the Province with each payment being the product of the proportion of the area in which timber has been harvested in that month of the total area of the cutting authority area and the total amount of stumpage payable under this agreement, and
 - (b) monthly bonus offer payments to the Province with each payment being the product of the proportion of the area in which timber has been harvested in that month of the total area of the cutting authority area and the total amount of bonus offer that is payable under this agreement.

- 8.06 If, after commencing timber cutting, the Licensee declares that it has completed exercising its rights under this Licence before the term of this Licence expires, the Licensee will pay, within 28 days of that declaration, the remaining amount of stumpage and bonus offer that is due under this Licence at that time.
- 8.07 If, after commencing timber cutting, the Licensee does not complete timber harvesting before the expiry of the term of this Licence, the Licensee will pay, within 28 days of the Licence expiring, the remaining amount of stumpage and bonus offer that is due under this Licence at that time.

9.00 LEGISLATIVE FRAMEWORK

- 9.01 This Licence is subject to the forestry legislation.
- 9.02 The Licensee must
- (a) comply with the forestry legislation, and
 - (b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Licence.
- 9.03 Nothing in this Licence is to be construed as authorizing the Licensee to cut timber or engage in or carry out any other forest practices until
- (a) all applicable operational plans have been prepared, submitted, or approved according to the forestry legislation in force at the time of work, and
 - (b) in the case of road construction, where required by regulation, a road layout and design and a site plan has been prepared by or submitted to the Timber Sales Manager.

10.00 ABORIGINAL RIGHTS, ABORIGINAL TITLE, TREATY RIGHTS

- 10.01 Notwithstanding any other provision of this Licence, if a court of competent jurisdiction
- (a) determines that activities or operations under or associated with this Licence will unjustifiably infringe an aboriginal right or title, or a treaty right,
 - (b) grants an injunction further to a determination referred to in subparagraph (a), or
 - (c) grants an injunction pending a determination of whether activities or operations under or associated with this Licence will unjustifiably infringe an aboriginal right or title, or a treaty right,
- the Timber Sales Manager, in a notice given to the Licensee, may vary or suspend this Licence, in whole or in part, or refuse to issue a Road Permit or other permit given to the Licensee, to be consistent with the court determination.
- 10.02 Subject to this Licence and the forestry legislation, if
- (a) the Timber Sales Manager has varied a Timber Sale Licence or Road Permit or other permit given to the Licensee under paragraph 10.01,
 - (b) a court of competent jurisdiction subsequently overturns, sets aside or rescinds the determination or injunction referred to in that paragraph, and

- (c) it is practical to do so,
the Timber Sales Manager, at the request of the Licensee, may vary the Timber Sale Licence or permit to reflect as closely as possible, for the remainder of its term, the terms and conditions of the permit or authorization given before the variation under paragraph 10.01.
- 10.03 Subject to this Licence and the forestry legislation, if
 - (a) the Timber Sales Manager has suspended a Timber Sale Licence or Road Permit or other permit given to the Licensee under paragraph 10.01,
 - (b) a court of competent jurisdiction subsequently overturns, sets aside or rescinds the determination or injunction referred to in that paragraph, and
 - (c) it is practical to do so,
the Timber Sales Manager, at the request of the Licensee, may reinstate the Timber Sale Licence or permit for the remainder of its term.
- 10.04 Subject to this Licence and the forestry legislation, if
 - (a) the Timber Sales Manager has refused to issue a Road Permit or other permit given to the Licensee under paragraph 10.01,
 - (b) a court of competent jurisdiction subsequently overturns, sets aside or rescinds the determination or injunction referred to in paragraph 10.01, and
 - (c) it is practical to do so,
the Timber Sales Manager, at the request of the Licensee, may issue the permit.

11.00 ROADS

- 11.01 The Licensee may construct, maintain and use roads on the cutting authority area under authority of this Licence.
- 11.02 The Licensee must ensure that a road specified in either Schedule C of this Licence or a Road Permit issued pursuant to this Licence is constructed by or on behalf of the Licensee in accordance with the specifications contained in either Schedule C or the Road Permit, as the case may be.
- 11.03 The Licensee must ensure that all roads constructed or maintained by or on behalf of the Licensee are constructed or maintained in accordance with the forestry legislation.
- 11.04 Before constructing, maintaining or using the road under this Licence, the Licensee, unless the Timber Sales Manager determines otherwise, must
 - (a) obtain all necessary permits or authorizations for crossing alienated lands including power lines, pipelines, railroads, public roads, and agricultural land reserves, and
 - (b) obtain all necessary permits or authorizations from other resource agencies.
- 11.05 The Licensee may, where necessary, construct a junction with a Forest Service Road, and must ensure that any junction with a Forest Service Road is constructed such that
 - (a) it provides at least the minimum sight distance to ensure user safety,

- (b) it has sufficient junction angle and suitable road grade and surface for the expected traffic, and
 - (c) culverts are installed, as required, to maintain drainage patterns.
- 11.06 The Licensee must provide to the Timber Sales Manager a report describing the costs incurred by the Licensee to construct, maintain or deactivate any road authorized or required to be constructed by this Licence or a Road Permit when that report is required by the Timber Sales Manager.
- 11.07 The Licensee must ensure that any access control structure erected to restrict motor vehicle traffic will not be a hazard to the users of the road by
 - (a) placing any control structure in a conspicuous location,
 - (b) adequately marking that structure with permanent reflective material, and
 - (c) erecting warning signs at such a distance so as to provide adequate warning of the structure.
- 11.08 If the Licensee wishes to communicate by means of radio, the Licensee must
 - (a) post the radio frequency at the start of the road,
 - (b) erect kilometre markers along that road, and
 - (c) ensure that all vehicles working for and on behalf of the Licensee use the posted frequency in an appropriate manner.
- 11.09 The Licensee must maintain all roads that the Licensee uses under the authority of this Licence, or a Road Permit (the “road authorizations”), to transport timber harvested in accordance with the forestry legislation and such road authorizations.

12.00 FINANCIAL AND DEPOSITS

- 12.01 In addition to any money payable in respect of this Licence or a Road Permit under the forestry legislation, the Licensee must pay to the Province, immediately upon receipt of a notice, statement or invoice issued on behalf of the Province,
 - (a) the amount specified in respect of stumpage under Part 7 of the *Forest Act* in respect of the timber authorized to be harvested under this licence or a Road Permit,
 - (b) that part of a bonus offer in the amount of **\$161,222.55** as specified in respect to this Licence in the notice, statement, or invoice, and
 - (c) waste assessments under Part 6.00 of this Licence
- 12.02 During the term of this Licence, the Licensee must maintain with the Province a deposit, or standing deposit, in the amount prescribed under the *Forest Act* or the regulations made under that Act, in a form acceptable to the Minister, as security for the Licensee’s performance of its obligations under or in respect of this Licence or any Road Permit.
- 12.03 If the Timber Sales Manager gives the Licensee a notice that an amount has been realized as security from the deposit or standing deposit, under this Part, the Licensee, within four (4) weeks of the date on which the notice is given, must pay to the Province, in a form acceptable to the Minister, an amount sufficient to replenish the deposit or standing deposit.
- 12.04 If the Licensee fails

- (a) to pay money that the Licensee is required to pay to the government under
 - (i) this Licence, or a Road Permit, or
 - (ii) the forestry Legislation in respect of this Licence, or a Road Permit or
 - (b) to otherwise perform its obligations under
 - (i) this Licence, or a Road Permit, or
 - (ii) the forestry legislation in respect of this Licence, or a Road Permit,
 the Timber Sales Manager, after at least four (4) weeks notice to the Licensee, may cause an amount to be withdrawn from the deposit, or standing deposit, referenced in paragraph 12.02:
 - (c) equal to the money which the Licensee failed to pay, and,
 - (d) sufficient to cover all costs incurred by the Timber Sales Manager in remedying the Licensee's failure to perform its obligations, or
 - (e) equal to the Timber Sales Manager's estimate of the costs that the Timber Sales Manager could reasonably expect to incur in remedying the Licensee's failure to perform its obligations,
- and, for that purpose an amount of the security included in the deposit, or standing deposit, may be realized.

12.05 A notice referred to in paragraph 12.04 must specify

- (a) the money which the Licensee has failed to pay or the obligation which the Licensee has failed to perform, and
- (b) the amount of the security the Timber Sales Manager intends to realize from the deposit, or standing deposit.

12.06 Subject to paragraphs 12.08, 12.09 and 12.10, if

- (a) under paragraph 12.04, , an amount of security realized from the deposit, or standing deposit, is equal to the Timber Sales Manager's estimate of the costs which the Timber Sales Manager could reasonably expect to incur in remedying the Licensee's failure to perform its obligations, and
- (b) the costs reasonably incurred by the Timber Sales Manager in remedying the Licensee's failure to perform its obligations are less than the amount of the security realized from the deposit, or standing deposit, the Timber Sale Manager will as soon as feasible,
- (c) return an amount equal to the difference between the amount of the security realized from the deposit, or standing deposit, and the costs incurred by the Province to
 - (i) the Licensee, if the deposit, or standing deposit, has been replenished in accordance with paragraph 12.03, or
 - (ii) to the deposit, or standing deposit, if the Licensee has not yet replenished the deposit, or standing deposit, in accordance with paragraph 12.03.

12.07 If

- (a) under paragraph 12.04, the amount of security realized from the deposit, or standing deposit, is equal to the Province's estimate of the costs which the Province could reasonably expect to incur in remedying the Licensee's failure to perform its obligations, and

- (b) the costs reasonably incurred by the Province in remedying the Licensee's failure to perform its obligations are greater than the amount taken from the deposit, or standing deposit,

the Timber Sales Manager may cause to be withdrawn an additional amount from the deposit, or standing deposit, equal to the difference between the costs incurred by the Province and the amount originally realized from the deposit, or standing deposit, and for that purpose an additional amount of the security included in the deposit, or standing deposit, may be realized
- 12.08 If under paragraph 12.04 the amount of the security realized from the deposit, or standing deposit, is equal to the Province's estimate of the costs under Subparagraph 12.04(e), the Province is under no obligation to remedy the Licensee's failure, and subject to paragraph 12.10, the Province may retain the amount of the security realized from the deposit, or standing deposit, under paragraph 12.04.
- 12.09 If security is realized under paragraph 12.04 and the Province decides not to remedy the Licensee's failure to perform its obligations, the Timber Sales Manager must give notice to the Licensee indicating that the Province will not be remedying the Licensee's failure to perform its obligations;
- 12.10 If, after receiving a notice referred to in paragraph 12.09, the Licensee
 - (a) remedies the failure to perform its obligations, and
 - (b) gives a notice to that effect to the Timber Sales Manager within three (3) months of the date on which the notice referred to in paragraph 12.09 is given to the Licensee, or within such longer period as the Timber Sales Manager may approve,
 - (c) the Province will as soon as is feasible return an amount equal to the difference between the amount of the security realized from the deposit, or standing deposit, and the costs incurred by the Province in respect of the Licensee's failure to perform its obligations to
 - (i) the Licensee if the deposit, or standing deposit, has been replenished in accordance with paragraph 12.03, or
 - (ii) to the deposit, or standing deposit, if the Licensee has not yet replenished the deposit in accordance with paragraph 12.03.
- 12.11 Subject to the Forest Act and the regulations made under that Act, the Province will return to the Licensee the deposit, or standing deposit, less deductions made under paragraphs 12.04 and 12.07, when:
 - (a) this Licence expires, or is surrendered; and
 - (b) the Timber Sales Manager is satisfied that the Licensee has fulfilled its obligations under this Licence and the forestry legislation.

13.00 REPORTING

- 13.01 The Licensee will submit such information as the Timber Sales Manager requires regarding the Licensee's obligations or activities under or in respect of this licence as and when required by the Timber Sales Manager.

- 13.02 The Licensee after commencing timber cutting will submit by the 7th day of each month to the Timber Sales Manager a report in a form satisfactory to the Timber Sales Manager that includes:
- a) the Licensee's estimate of the area in which timber has been harvested under authority of this license during the immediately preceding month, and
 - b) the Licensee's estimate of the total area in which timber has been harvested under authority of this license subsequent to the commencement of the term of the license.
- 13.03 Following the completion of primary forest activities, the Licensee will submit to the Timber Sales Manager a conformance certificate, signed by a Registered Professional Forester or Registered Forest Technologist, that confirms that all primary forest activities conducted under this licence are consistent with the Forest Stewardship Plan results and strategies applicable to this Licence.
- 13.04 The Licensee will submit the signed conformance certificate, referenced in section 13.03 of this Timber Sales Licence, to the Timber Sales Manager prior to final deposit release and in the format provided in TSL Appendix I.

14.00 LIABILITY AND INDEMNITY

- 14.01 The Licensee must indemnify the government against and save it harmless from all claims, demands, suits, actions, causes of action, costs, expenses and losses faced, incurred or suffered by the government as a result, directly or indirectly, of any act or omission of
- (a) the Licensee,
 - (b) an employee or agent of the Licensee,
 - (c) a contractor of the Licensee who engages in any activity or carries out any operation, including but not restricted to harvesting operations, under or associated with this Licence or a Road Permit, or
 - (d) any other person who on behalf of or with the consent of the Licensee engages in any activity or carries out any operation, including but not restricted to harvesting operations, under or associated with this Licence or a Road Permit.
- 14.02 For greater certainty, the Licensee has no obligation to indemnify the government under paragraph 14.01 in respect of any act or omission of
- (a) an employee, agent or contractor of the government, in the course of carrying out his or her duties as employee, agent or contractor of the government, or
 - (b) a person, other than the Licensee, to whom the government has granted the right to use or occupy Crown land, in the course of exercising those rights.
- 14.03 Amounts taken under part 12.00 from the deposit and any payments required under part 6.00 are in addition to and not in substitution for any other remedies available to the government in respect of a default of the Licensee.

15.00 LIMITATION OF LIABILITY

- 15.01 The Province is not liable to the Licensee for injuries, losses, expenses, or costs incurred or suffered by the Licensee as a result, directly or indirectly, of an act or omission of a person who is not a party to this Licence, including but not restricted to an act or omission of a person disrupting, stopping or otherwise interfering with the Licensee's operations under this Licence by road blocks or other means.

16.00 TITLE to IMPROVEMENTS and TIMBER

- 16.01 Title to all
- (a) improvements, including roads and bridges, constructed under the authority of this Licence,
 - (b) improvements, including roads and bridges, constructed under the authority of a road permit issued pursuant to this Licensee, unless otherwise specified in the permit, and
 - (c) timber, standing, felled or otherwise fallen, including logs and special forest products, felled or bucked under the authority of this Licence and located on the cutting authority area upon the expiry, cancellation, surrender or other termination of this Licence,
- will vest in the Province, without right of compensation to the Licensee.
- 16.02 The Licensee must leave all improvements and timber referred to in paragraph 16.01 on the cutting authority area, unless otherwise authorized by the Timber Sales Manager.

17.00 BANKRUPTCY, ASSIGNMENT, AND INSOLVENCY

- 17.01 The Licensee must refrain from committing an act of bankruptcy, making a general assignment for the benefit of its creditors, or otherwise acknowledging its insolvency.

18.00 NOTICE

- 18.01 A notice given under this Licence must be in writing.
- 18.02 A notice given under this Licence may be
- (a) delivered by hand, or
 - (b) sent by mail.
 - (c) subject to Paragraph 18.05, sent by facsimile transmission to the address or facsimile number, as applicable, specified on the first page of this Licence, or to such other address, or facsimile number as is specified in a notice given in accordance with this Part.
- 18.03 If a notice is given under this Licence, it is deemed to have been given
- (a) if it is given in accordance with subparagraph 18.02(a), on the date it is delivered by hand, or
 - (b) if it is given in accordance with subparagraph 18.02 (b), subject to paragraph 18.04, on the eighth day after its deposit in a Canada Post Office at any place in Canada.

- (c) if it is given in accordance with subparagraph 18.02(c), subject to paragraph 18.05, on the date it is sent by facsimile transmission.
- 18.04 If, between the time a notice is mailed in accordance with subparagraph 18.02 (b) and the time it is actually received, there occurs a postal strike, lockout or slowdown that might reasonably affect delivery of the notice, the notice is not deemed to be given until the party actually receives it.
- 18.05 If a notice is sent by facsimile transmission, the party sending the notice must take reasonable steps to ensure that the transmission has been successfully completed.
- 18.06 Either party may, from time to time, advise the other party by notice in writing, of any change of address or facsimile number of the party giving such notice and, from and after giving of such notice, the address or facsimile number specified will, for purposes of this licence, be considered to be the address or facsimile number of the party giving such notice, until changed in accordance with this subsection.

19.00 MISCELLANEOUS

- 19.01 The Exhibit "A", Exhibit "B", Schedules to this Licence and Road Permits issued pursuant to this Licence are deemed to be part of this Licence.
- 19.02 This Licence will enure to the benefit of, and be binding on, the Parties and their respective heirs, executors, successors and permitted assigns.
- 19.03 Any power conferred or duty imposed on the Timber Sales Manager under this Licence may be exercised or fulfilled by any person authorized to do so by the Timber Sales Manager.
- 19.04 The laws of British Columbia will govern the interpretation of this Licence and the performance of the Parties' obligations under this Licence.
- 19.05 If there is a conflict between the *Workers' Compensation Act* or a regulation under that Act, and a provision of this Licence, the *Workers' Compensation Act*, or the regulation made under that Act, prevails to the extent of the conflict, and the Licensee must immediately notify the Timber Sales Manager of the conflict and follow any direction given by the Timber Sales Manager with respect to the conflict, provided such direction is consistent with the *Workers' Compensation Act* and the regulations under that Act.
- 19.06 Nothing in this Licence authorizes the Licensee to in any way restrict the government's access to the cutting authority area or the right-of-way of any other authorized entrant, user or occupier of that area.

20.00 INTERPRETATION

- 20.01 In this Licence, unless the context otherwise requires,
 - (a) "deposit" means the deposit referred to in paragraph 12.02,
 - (b) "standing deposit" means a standing deposit under section 16.1 or 16.5(2) of the BC Timber Sales Regulation,
 - (c) "extension" means an increase to the term of this Licence,
 - (d) "*Forest Act*" means the *Forest Act*, R.S.B.C. 1996, c. 157, as amended from time to time, or the successor to this Act, if it is repealed,

- (e) “*Forest and Range Practices Act*” means the *Forest and Range Practices Act*, R.S.B.C. 2002, as amended from time to time,
- (f) “forest stewardship plan” means a forest stewardship plan referred to in the *Forest and Range Practices Act*, that is prepared by the Timber Sales Manager and approved by the Minister in respect of this Licence,
- (g) “forestry legislation” means:
 - (a) the *Forest Act*;
 - (b) the *Forest and Range Practices Act*;
 - (c) the *Wildfire Act*;and the regulations and standards under those Acts, and, as amended from time to time;
- (h) “harvest” and its derivatives means to cut and remove timber from a cutting authority area,
- (i) “merchantability specifications” means the merchantability specifications described in the *Provincial Logging Residue and Waste Measurement Procedures Manual*,
- (j) “merchantable Crown timber” means timber referred to in paragraph 1.01 that meets the merchantability specifications,
- (k) “Minister” means the minister responsible for administering the *Forest Act* and the *Forest and Range Practices Act*,
- (l) “month” has the same meaning as in the *Interpretation Act*,
- (m) “person” includes an individual and a corporation,
- (n) “primary forest activity” has the same meaning as in Section 1(1) of the *Forest Planning and Practices Regulation*,
- (o) “primary logging” means cutting, or felling timber, yarding, forwarding the timber to central landings or road-sides, or removing the timber from these landings or road-sides,
- (p) “Province” means Her Majesty the Queen in Right of the Province of British Columbia,
- (q) “Road Permit” means a Road Permit under the *Forest Act* issued to the Licensee in relation to this Licence,
- (r) “site plan” means a site plan referred to in the *Forest and Range Practices Act*, that is prepared by the Timber Sales Manager in respect of this Licence,
- (s) “timber authorized to be harvested” means merchantable Crown timber in the areas of land authorized as the cutting authority area under paragraph 1.01(a),
- (t) “Timber Sales Manager” means
 - (i) a Timber Sales Manager appointed under the *Ministry of Forests Act*, for a BC Timber Sales business area in which all or part of the cutting authority area is situated, and
 - (ii) any person authorized by the Timber Sales Manager to exercise a power or fulfill a duty in respect of this Licence,
- (u) “waste” has the same meaning as in the *Provincial Logging Residue and Waste Measurement Procedures Manual*,

- (v) “*Wildfire Act*” means the *Wildfire Act*, S.B.C. 2004, as amended from time to time,
 - (w) “year” has the same meaning as in the *Interpretation Act*.
- 20.02 Unless otherwise provided in paragraph 20.01, if a word or phrase used in this Licence is defined in the *Forest Act*, the *Forest and Range Practices Act*, or the *Wildfire Act*, the definition in the Act applies to this Licence, and where the word or phrase in the Act is replaced by a new word or phrase, this Licence is deemed to have been amended accordingly.
- 20.03 If a provision of the *Forest Act* the *Forest and Range Practices Act* or the *Wildfire Act* referred to in this Licence is renumbered, the reference in this Licence is to be construed as a reference to the provision as renumbered.
- 20.04 In this Licence, unless the context otherwise requires,
- (a) the singular includes the plural and the plural includes the singular, and
 - (b) the masculine, the feminine and the neuter are interchangeable.
- 20.05 This Licence is divided into parts, paragraphs, subparagraphs, clauses and subclauses, illustrated as follows:
- 1.00 part,
 - 1.01 paragraph,
 - (a) subparagraph,
 - (i) clause,
 - (A) subclause;
- and a reference to a subparagraph, clause or subclause is to be construed as a reference to a subparagraph, clause or subclause of the paragraph, subparagraph or clause, as the case may be, in which the reference occurs.

IN WITNESS WHEREOF each of the parties has executed this Licence on the respective date set forth below.

THE COMMON SEAL of the
Licensee was affixed in the
presence of:

AFFIX
COMMON SEAL

.....
Signature of Witness


.....
Date

.....
Print Witness Name

Or

SIGNED by the Licensee in the
presence of:


Signature of Witness

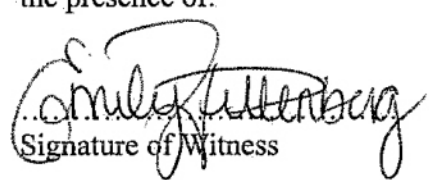

Signature of Licensee or Authorized
Signatory


May 6 2019
Date

Patrick Robson
Print Witness Name

Loren Scindon
Print Name of Licensee or Authorized
Signatory

SIGNED by the Timber Sales
Manager on behalf of Her
Majesty the Queen in Right of the
Province of British Columbia in
the presence of:


Signature of Witness


Stacey Gould, Timber Sales Manager
BC Timber Sales Chinook Business Area

May 9, 2019
Date

Emily Wittenberg
Print Witness Name

SCHEDULE "A"

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ADMINISTRATION

- 1.01 The Licensee must
- (a) notify the Timber Sales Manager of the date that the Licensee intends to begin timber harvesting or road construction at least **14** days before the date that the Licensee intends to begin either of those activities, informing the Timber Sales Manager of the date that the Licensee intends to begin each of those activities respectively and,
if the Licensee intends to stop operations on the cutting authority area for longer than 14 consecutive days, the Licensee will
 - (b) notify the Timber Sales Manager within 5 days after commencing that shutdown, and
 - (c) notify the Timber Sales Manager at least 2 working days before recommencing operations on the cutting authority area.
- 1.02 The Licensee must adhere to the following requirements:
- (a) Must conduct an amphibian surveys in cut block G042C3MY, Stream 1 before any road crossings are built. Must relocate tadpoles upstream of the construction site. Must use a RP Bio to conduct the survey and relocation of the tadpoles.
 - (b) Must not operate on the day of the BC Bike Race.
 - (c) Must not use Bulk Fuel Trucks on Mt. Elphinstone.
 - (d) Must not use rubber-tired skidders.
- 1.03 This timber sale is subject to Forest Professional Oversight and Certification (FPOC) requires TSL holders to retain a forest professional to oversee their primary forest activities and confirm that these activities are consistent with the Forest Stewardship Plan. The Licensee will submit a signed conformance certificate prior to deposit release. (See Appendix I FPOC Conformance Certificate.)

2.00 DANGEROUS TREES

- 2.01 The Licensee may cut a tree that is reserved from cutting and is located within the cutting authority area if the person authorized by the Licensee reasonably believes that
- (a) the tree represents a safety hazard, and
 - (b) a “no work zone” does not need to be established.
- 2.02 The Licensee must not buck or remove any tree that is reserved from cutting, felled as a safety hazard, inside of the cutting authority area without the consent of the Timber Sales Manager.
- 2.03 The Licensee may cut a tree that is located outside of the cutting authority area if a person authorized by the Licensee reasonably believes that the tree represents a safety hazard.

- 2.04 the Licensee must not buck or remove any tree felled outside of the cutting authority area without the consent of the Timber Sales Manager.

3.00 ENVIRONMENTAL

See Schedule "D"

- 3.01 The Licensee must
- (a) supply, use and maintain at least one self-contained chemical toilet for every ten (10) persons working in the cutting authority area on or near a landing approved by the Timber Sales Manager when conducting operations under this licence, and
 - (b) discharge those toilets only at an approved disposal site that is not on the cutting authority area.
- 3.02 The Licensee must remove all soil and vegetative material from all logging and road building equipment prior to transporting equipment to the timber sale area. (This is to control the spread of invasive plant species.)

4.00 HARVESTING

- 4.01 The Licensee must pile and dispose of all roadside and landing debris.
- 4.02 The Licensee must conduct operations in a manner that will not result in debris accumulating within **20** metres of standing trees, immature trees and seedlings, or otherwise negatively impact other resource values or private property.
- 4.03 If the Licensee pushes over, knocks over, or otherwise causes a tree to lean over, the Licensee must cut that tree, and if the Licensee chooses not to remove that tree, must
- (a) buck that tree into lengths, and
 - (b) lop and scatter all branches
- in such a manner that lengths and branches lie close to the ground and are clear of all reserved trees, immature trees and seedlings and private property.

5.00 FOREST HEALTH

- 5.01 Windfirming (pruning) treatment areas are identified on the TSL A93884 Block G042C3MY Harvest Plan Map dated October 18, 2018. The Licensee must conduct windfirming treatments on conifer trees between Falling Corners 68 to 69 and 75 to 78 and on all 65 Leave Trees in the SMZ in the following manner:
- (a) Treat all trees over 30cm DBH standing within 20 meters of the harvest boundary and all 65 Leave Trees within the 20-meter SMZ.
 - (b) Manually spiral prune and remove 40% to 60% of the live crown from each tree.
 - (c) Windfirming treatments must be completed within 30 days of falling the setting within one tree length of any area prescribed for pruning.

6.00 OTHER UTILITIES AND OCCUPIERS OF LAND

No clauses are applicable to this Part.

7.00 ROADS

No clauses are applicable to this Part.

8.00 SPECIAL CONDITIONS

8.01 The Licensee must ensure that the area occupied by permanent access structures does not exceed:

- (a) for Block #G042C3MY: 3.9% of the total area or 1.1 hectares, and
- (b) for Block #G042C46N: 3.2% of the total area or 0.9 hectares.

9.00 SILVICULTURE

9.01 The Licensee must create a minimum of **1200** plantable spots per hectare dispersed throughout each cutblock in the cutting authority area.

10.00 SKID TRAILS

No clauses are applicable to this Part.

11.00 SLASHING

11.01 A minimum of 4 logs per hectare 5m in length and 30cm in diameter at one end must be retained within the harvested portion of cut block G042C3MY and cut block G042C46N.

12.00 TIMBER PROCESSING

No clauses are applicable to this Part.

SCHEDULE "B"

RESERVED TIMBER and MERCHANTABILITY SPECIFICATIONS

1.00 MERCHANTABILITY SPECIFICATIONS AND WASTE ASSESSMENT

- 1.01 For the purposes of the waste assessment and subject to Part 6.00 of this Licence, standing timber, alive or dead, will be measured in accordance with the specifications and procedures stated in the *Provincial Logging Residue and Waste Measurements Procedures Manual*.
- 1.02 For the purposes of waste assessment and subject to Part 6.00 of this Licence, felled or dead-and-down timber will be measured in accordance with the specifications and procedures stated in the *Provincial Logging Residue and Waste Measurements Procedures Manual*.

2.00 RESERVED TIMBER

- 2.01 The Licensee must ensure that the cutblock boundary is clearly marked following completion of timber harvesting operations, by not cutting those trees marked as being on a cutblock boundary (boundary trees).
- 2.02 Leave trees are scattered throughout cutblock G042C3MY. The leave trees are marked in the field with a blue painted ring at dbh and a vertical line to the ground. The licensee must not cut, damage or destroy trees marked as leave trees. Caution must be taken to not damage the root system when harvesting. Refer to Project Plan map for Harvesting dated October 18, 2018 for areas with leave trees.

SCHEDULE "C"
ROAD AND STRUCTURE
ENGINEERING REQUIREMENTS

No clauses are applicable to this Schedule.

SCHEDULE “D” ENVIRONMENTAL MANAGEMENT SYSTEM

The information contained in this Schedule is provided for the applicant to use when formulating an application for this Timber Sale Licence, and when conducting operations on the cutting authority area.

1.00 DEFINITIONS

1.01 In this Schedule

- (a) “BCTS EMS” means the BC Timber Sales Environmental Management System contained in the Ministry of Forests’ publication “BC Timber Sales (BCTS) Environmental Management System”, as amended from time to time, that is available on the BC Timber Sales website at:
<https://www2.gov.bc.ca/gov/content/industry/forestry/bc-timber-sales/forest-certification/ems-sfm>
- (b) “EFP” means environmental field procedure,
- (c) “EOP” means environmental operating procedure,
- (d) “ERP” means emergency response plan, and

2.00 OPERATIONAL CLAUSES

- 2.01 The Licensee must ensure that all persons working on the cutting authority area or related permit areas for the benefit of the Licensee, (“the Licensee’s agents”), conform to the requirements of the Environmental Management System.
- 2.02 The Licensee must ensure that all persons working on the cutting authority area or related permit areas for the benefit of the Licensee, (“the Licensee’s agents”), achieve and maintain training in the BCTS EMS.
- 2.03 If the Timber Sales Manager notifies the Licensee that the Licensee's agents must have educational requirements consistent with revised EMS training content by a date specified in the notice, the Licensee must ensure that beginning on that date the Licensee's agents have the educational requirements consistent with the revised EMS training content.
- 2.04 The Licensee must, before beginning operations on the cutting authority area or related permit areas, notify the Timber Sales Manager of the name
 - (a) of the person(s) who will be responsible for supervising operations on those sites and who will be present on site at all times (“the supervisor”), and
 - (b) of an alternate(s) should the supervisor not be on site,and after beginning operations must notify the Timber Sales Manager of any change to the supervisor referred to in subparagraph (a) of this paragraph, or alternate, within 5 days of making the change.
- 2.05 The Licensee must maintain records of the nature and extent of the BCTS EMS training received by the Licensee and the Licensee’s agents sufficient to allow the Timber Sales Office to determine whether the Licensee is in compliance with paragraphs 2.01 and 2.02. The records will contain, but not be limited to:
 - (a) Employee / agent name;

- (b) EMS Training Level achieved;
 - (c) Date that training was taken.
- 2.06 The Licensee must ensure that those environmental field procedures (EFPs), environmental operating procedures (EOPs) and checklist/report forms applicable to the phases of work are made available on the cutting authority area or related permit areas to be viewed and read by the Licensee's agents.
- 2.07 The Timber Sales Manager, at any reasonable time, may notify the Licensee that the EFPs, EOPs or checklist/report forms as required by the EMS must be amended within a time specified to conform to the current edition of the BCTS EMS.
- 2.08 If the Timber Sales Manager notifies the Licensee under paragraph 2.07, BCTS must provide the Licensee with the amended EFPs, EOPs and checklist/report forms at substantially the same time as the notification.
- 2.09 If the Licensee receives a notice under paragraph 2.07, the Licensee must ensure that, by the date specified in the notice, the EFPs, EOPs and checklist/report forms are amended.
- 2.10 The Licensee must ensure that the Licensee's agents conform to the requirements of all applicable EFPs, EOPs and checklists/reports as required by the EMS.
- 2.11 The Licensee must inspect its own operations for conformance with the Licence, related permit(s), operational plans and the BCTS EMS. This does not preclude the requirement of the Licensee to conduct monitoring of its own operations for conformance.
- 2.12 Where operations do not conform to the requirements of the Licence, related permits, operational plans and the EMS, the Licensee must take appropriate corrective and preventive action.
- 2.13 The Licensee will conduct and document pre-work meetings and inspections as directed by BCTS staff at the pre-work meeting prior to the start up of field operations.
- 2.14 The Licensee will maintain records of pre-work meetings and inspection results and provide proof that operations are conforming or that corrective and preventive action has been taken, or is taking place.
- 2.15 On request of the Timber Sales Manager, the Licensee must make available to the Timber Sales Manager the records as required by the EMS and this Schedule.
- 2.16 The Licensee may be audited by an internal auditor and/or an independent third party auditor on conformance with the requirements of the BCTS EMS, and is committed to both
 - (a) providing time and resources for such audits and,
 - (b) improving practices in response to audit results indicating that practices require improvement.

3.00 ENVIRONMENTAL EMERGENCY RESPONSE PLAN

- 3.01 The Licensee, if providing an activity or service with associated risks related to hazardous material spills, fuel, oil and pesticides, forest fires, landslides or other major erosion events, must comply with the BC Timber Sales Emergency Response Plan, as amended from time to time.

- 3.02 Before commencing operations on the cutting authority area or related permit areas, the Licensee must prepare and maintain on the cutting authority area an emergency response plan consistent with the approved BC Timber Sales Emergency Response Plan and submit such plan to the Timber Sales Manager upon request.
- 3.03 The Licensee must make its emergency response plan available on site for viewing by the Licensee's agents.
- 3.04 The Licensee must
 - (a) maintain a spill kit for every operation using herbicides or fuel on the cutting authority area or related permit areas and
 - (b) must ensure that all of the Licensee's agents have been trained in the use of that spill kit.
- 3.05 The Licensee must
 - (a) test emergency preparedness and
 - (b) maintain documentation of tests referred to in subparagraph (a) including
 - (i) the date of the test,
 - (ii) start and end times,
 - (iii) names of people involved,
 - (iv) results, and
 - (v) any actions to be taken as a result of those tests.
- 3.06 The Licensee must operate on the cutting authority area or related permit areas according to its emergency response plan.
- 3.07 The Licensee must report and document any incident in accordance with the BC Timber Sales Emergency Response Plan, identifying
 - (a) the time and date of the incident,
 - (b) location of the incident,
 - (c) description of the incident,
 - (d) impact(s),
 - (e) contributing factors,
 - (f) action taken and
 - (g) agencies to which the incident was reported.

EXHIBIT "A"

[Map]

MAP OF : A93884 CB G042C3MY (shown in bold black)

FOREST REGION : RSC
FOREST DISTRICT : DSC

TSA :
LAND DISTRICT : NEW
WESTMINSTER DISTRICT

PULPWOOD AGREEMENT :

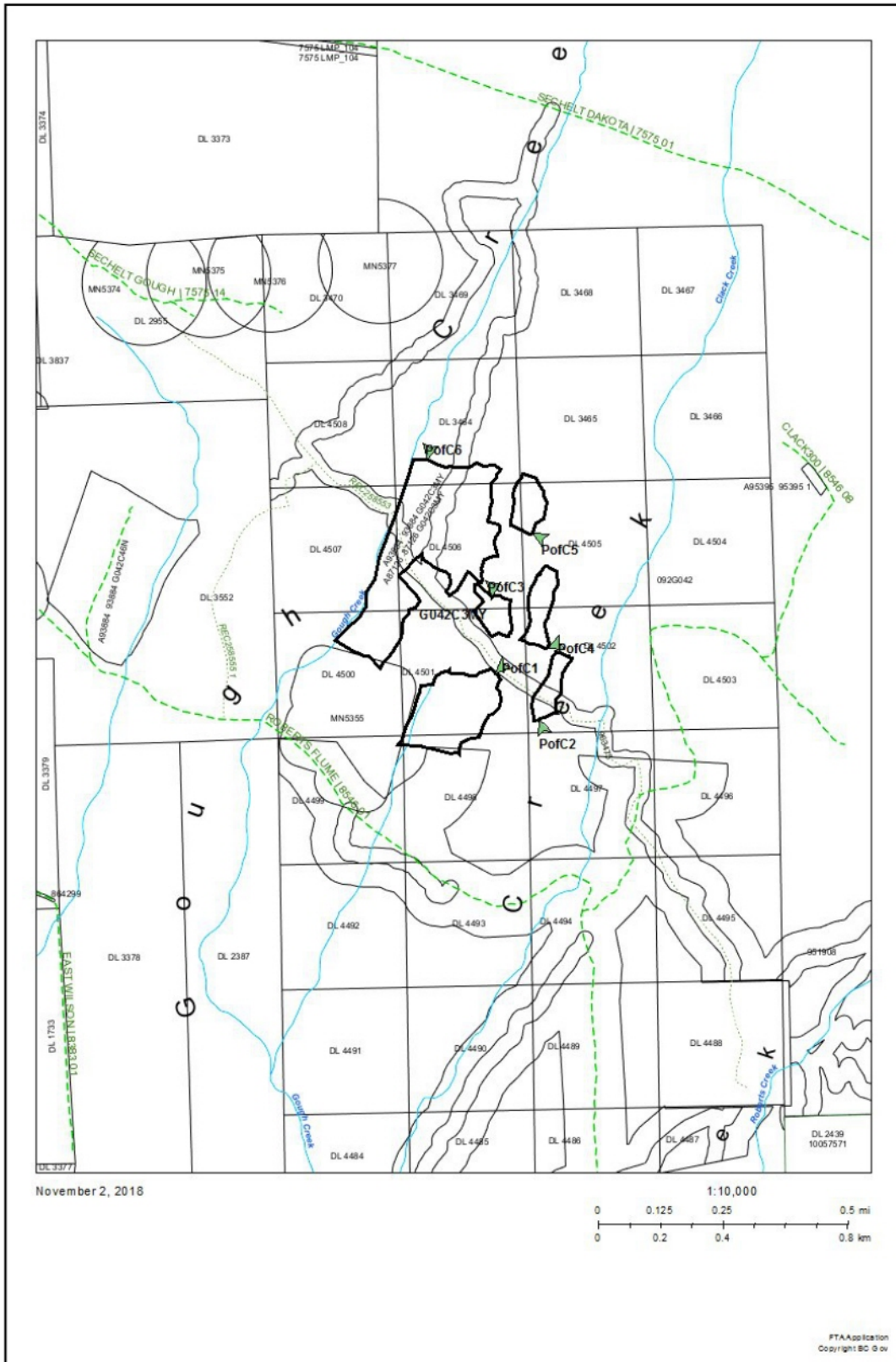
MGT UNIT TYPE : TIMBER
SUPPLY AREA
MGT UNIT NO : 39

ESF SUBMISSION ID : 1808071
BCGS MAPSHEET NO : 92G.042
























SCALE : 1:10000 at ANSI A Size
Area (Ha): 26.8851

UTM : 10
NAD : NAD83

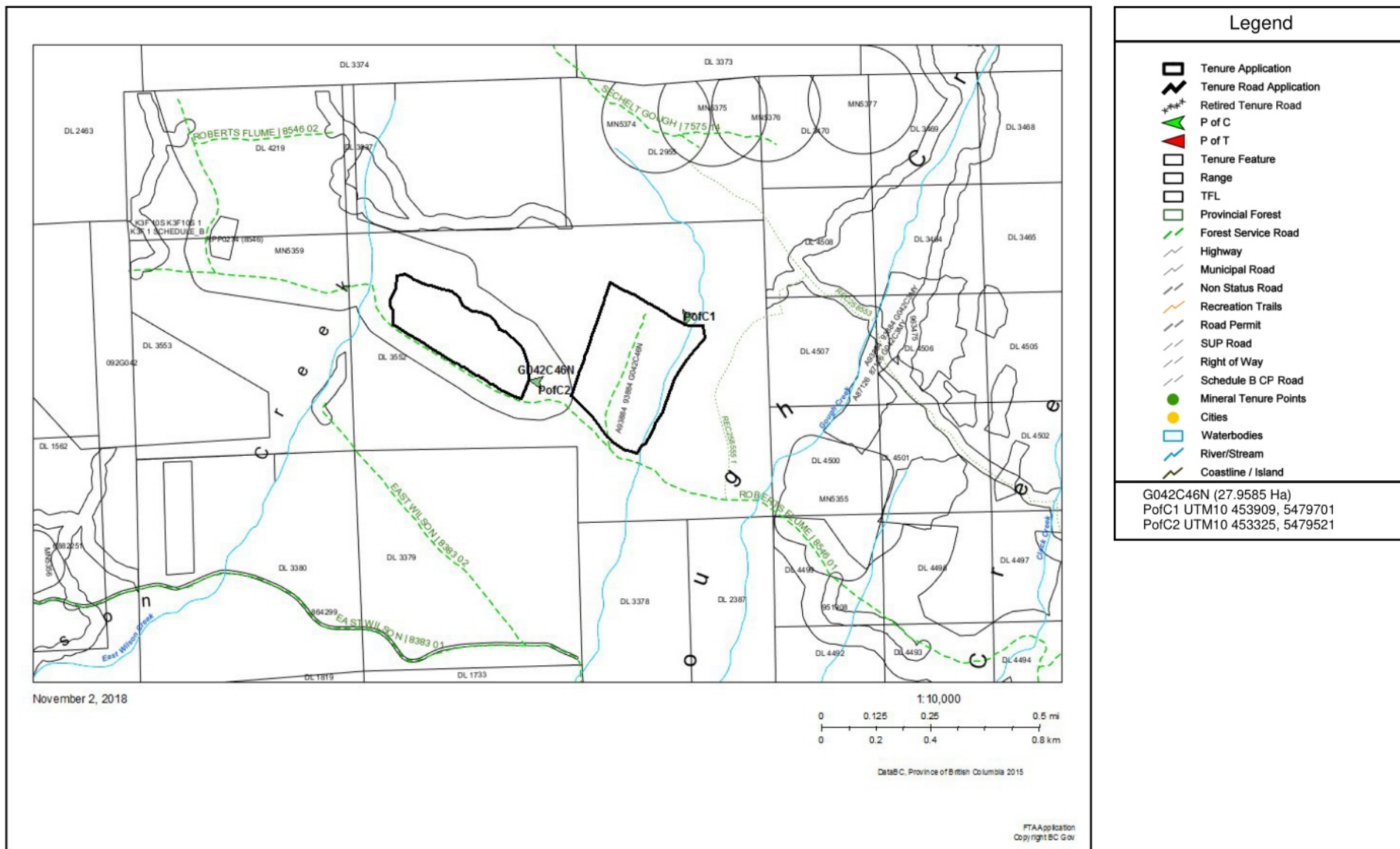
DRAWN BY : FTA
DATE : Nov 02, 2018



Legend

-  Tenure Application
-  Tenure Road Application
-  Retired Tenure Road
-  P of C
-  P of T
-  Tenure Feature
-  Range
-  TFL
-  Provincial Forest
-  Forest Service Road
-  Highway
-  Municipal Road
-  Non Status Road
-  Recreation Trails
-  Road Permit
-  SUP Road
-  Right of Way
-  Schedule B CP Road
-  Mineral Tenure Points
-  Cities
-  Waterbodies
-  River/Stream
-  Coastline / Island

G042C3MY (26.8851 Ha)
 PofC1 UTM10 454912, 5479161
 PofC2 UTM10 455046, 5479008
 PofC3 UTM10 454909, 5479408
 PofC4 UTM10 455082, 5479234
 PofC5 UTM10 455048, 5479607
 PofC6 UTM10 454722, 5479857





File: 19620-25/A93884
11400-25/R22327

May 9, 2019

Black Mount Logging Inc.
2021 Paco Road
Squamish, British Columbia
V8B 0J6

Dear Laren Saindon:

Congratulations on the acquisition of your timber sale. Please find enclosed your copies of Timber Sale Licence A93884 and Road Permit R22327. This Licence has a term of twenty-four (24) months, commencing on May 9, 2019 and expiring May 8, 2021.

Thank you for your email received on May 6, 2019, confirming the use of Black Mount Logging Inc. 'Standing Deposit' as security for this timber sale.

The ministry representative for the sale will be Allan Knapp. Please ensure that all correspondence concerning this sale is addressed or communicated to your ministry representative.

Before you commence operations under this licence, you are required to attend a pre-work meeting. A two-week notice is requested for this meeting. Please contact your ministry representative, by phone at 604-485-0735 or email Allan.Knapp@gov.bc.ca, to request the pre-work meeting. Your ministry representative will then confirm the date, time and location for the meeting as well as documents required before activities can commence on your timber sale. You are strongly advised to read the entire timber sale document before attending that meeting. Pre-work meetings are an exchange of valuable information concerning all aspects of your timber sale and your lead field team members should attend. The commencement of logging activities should follow shortly after the pre-work meeting.

You are also responsible for notifying your ministry representative of the date you begin timber harvesting or road construction activities and when you have completed primary logging activities on the licence area. Upon receipt of written notification, BC Timber Sales staff will inspect the licence area for conformance with the licence documents and conditions.

Yours truly,

Cheryl Turner
Business Administrator
BC Timber Sales
Chinook Business Area

Enclosures: TSL document
Road Permit Document
Chain of Custody Letter

A93884 Rainfall shut-down

From: Knapp, Allan FLNR:EX </O=BCGOVT/OU=EXCHANGE ADMINISTRATIVE GROUP
s.15
To: Laren Saindon <lsaindon@btheli.com>, Graham, Jeremy D FLNR:EX
(Jeremy.Graham@gov.bc.ca) <Jeremy.Graham@gov.bc.ca>
Sent: May 29, 2019 11:28:56 AM PDT
Attachments: How to use the Climate BC Web Application.pdf, 17-126 TCH TSG Wet Weather
Shutdown Guidance Field Table FINAL.pdf, TSG_TCH_WWSG_Landslide Prone Terrain
Definition.pdf, 17-126 WWSG Operational Procedures Document.pdf,
TSG_TCH_WWSG_ExcelTable_v1.9.xlsx

Hello Laren,

Attached is the rainfall shutdown guidelines. The site plan does not specify a mm/hr because it instead states the BCTS Rainfall shutdown guidelines will be adhered to. Which is what is attached.

There is the 'guidance field table' which could be used onsite, and a 'Operational Procedures' document that explains the process. The 'how to' document on how to use the web application to determine the annual rainfall for your TSL, and a 'excel table' as a supplement to the field tracking sheet.

We can discuss this over the phone or by e-mail if you have questions.

Thank you,

Allan Knapp, RPF

Forest Technologist, BCTS – TCH

Timber Operations, Pricing and First Nations

7077 Duncan St., Powell River, V8A 1W1

(604) 485-0735 (office)

(604) 413-0653 (cell)

Allan.Knapp@gov.bc.ca



BCTS TSG/TCH – How to use the Climate BC Web Application to determine Mean Annual Precipitation

STEP 1 - Go to the following web address...

- http://www.climatewna.com/ClimateBC_Map.aspx

STEP 2 - Zoom into your worksite location on the map window

- Above the top of the map window you will see an Overlays title with drop down windows. Adjust the transparency to at least 75%.
- At the top left corner of the map window you will see a Map/Satellite Tab. Select Satellite.
- Zoom into your worksite location on the map window. Make sure the cursor is in the right location. Alternatively you can enter the coordinate information into the Latitude and Longitude fields to the left of the map window.

STEP 3 - Select the appropriate Historical parameters to run the calculation

- To determine mean annual precipitation for the purpose of determining rainfall shutdown thresholds select “**Normal_1981_2010**” in the drop down list titled “**Historical**”.

STEP 4 - Find your Mean Annual Precipitation Value

- Now that your location and historical parameters are set click the calculate tab.
- Under the table titled “Annual Variables” look for “MAP”. Next to “MAP” is your mean annual precipitation in millimeters (mm’s).

REFER to the next page for a screenshot of the Climate BC Map application.



BCTS TSG/TCH – How to use the Climate BC Web Application to determine Mean Annual Precipitation

The screenshot displays the ClimateBC_Map web application interface. The top navigation bar includes links for NEWS, EVENTS, DIRECTORIES, SEARCH UBC, and myUBC LOGIN. The main header features the University of British Columbia logo and the Faculty of Forestry logo.

The interface is divided into several sections:

- Overlays:** A dropdown menu showing "Climate maps" with a value of 75. Other options include BEC zones, Species ranges, SPU maps, and Transparency.
- Coordinates Input:** Fields for Latitude (50.458), Longitude (-126.497), Elevation (596 m), and Future (Select a GCM and a period). Buttons for "Quick Tutorial", "Help", and "Calculate" are present.
- Annual Variables:**
 - MAT = 6.2
 - MWMT = 13.9
 - MCMT = -0.2
 - TD = 14.1
 - MAP = 2466
 - MSP = 406
 - AHM = 6.6
 - SHM = 34.1
 - DD<0 = 266
 - DD>5 = 1194
 - DD<18 = 4296
 - DD>18 = 21
 - NFFD = 237
 - bFFP = 127
 - eFFP = 288
 - FFP = 161
- Seasonal Variables:**
 - Tmax_wt = 3.2
 - Tmax_sp = 8.5
 - Tmax_sm = 17.3
 - Tmax_at = 10.1
 - Tmin_wt = -2.3
 - Tmin_sp = 1.1
 - Tmin_sm = 8.1
 - Tmin_at = 3.6
 - Tave_wt = 0.5
 - Tave_sp = 4.8
 - Tave_sm = 12.7
 - Tave_at = 6.8
 - PPT_wt = 739
 - PPT_sp = 593
 - PPT_sm = 223
 - PPT_at = 912
- Monthly Variables:**
 - Tmax(01) = 3.5
 - Tmax(02) = 4
 - Tmax(03) = 4.9
 - Tmax(04) = 8.3
 - Tmax(05) = 12.2
 - Tmax(06) = 15.1
 - Tmax(07) = 18.2
 - Tmax(08) = 18.5
 - Tmax(09) = 15.7
 - Tmax(10) = 9.7
 - Tmax(11) = 5
 - Tmax(12) = 2.1
 - Tmin(01) = -1.8
 - Tmin(02) = -2.4
 - Tmin(03) = -1.3
 - Tmin(04) = 0.8

The map area shows a topographic view of a region in British Columbia, with labels for "Naka Creek Recreational Site", "Mt. Peel", and "Mt. Derby". A red pin is placed on the map. The bottom of the interface includes a "Google" logo, a "Map data © 2018 Imagery © 2018 CNES / Airbus, DigitalGlobe, Landsat / Copernicus, Province of British Columbia" notice, and buttons for "Remove Overlays", "Download Overlay raster files", "Desktop version", "ClimateNA_Map", and "ClimateWNA_Map".

Copyright (2017) University of British Columbia. All right reserved.
 Disclaimer: Predictions of historical and future climates are based on the methodologies described in Wang et al. 2016. Authors do not bear any liability for financial or other losses due to the use of this program.
 Note: Mismatches between overlays and the map may occur if your browser is outdated. More spatial raster layers of climate variables are available for [download](#).
 Last update: Mar 12, 2018.
<http://web.forestry.ubc.ca/>

WWSSG Data Sheet

Contract or Licence #:

Location: _____

Precipitation Zone: _____

Water Input Operational Limits:

Shift end (12 hr.): _____ 24-hr _____ 48-hr _____ 72-hr: _____

DIRECTIONS:

Measure temperature and precipitation from gauge at start and end of shift. Record these numbers. Start and end of shift numbers can be used as 12-hour precipitation totals even though work shift length is closer to 10 than 12 hours (so actual measured numbers are more like 14-hour and 10-hour totals).

Add the two precipitation numbers from **end of last shift** and **start of new day's shift** together to determine today's 24 hour precipitation total.

Add yesterday's 24 hour total to today's 24 hour total to determine today's 48 hour total.

Add yesterday's 48 hour total to today's 24 hour total to determine today's 72 hour total.

Count number of Other Risk Factors checked and write down this number (0 to 6) as Zone Modifier. Add this number to Precipitation Zone to determine Modified Zone.

Check 12 hour (start and end of shift), 24 hour, 48 hour and 72 hour precipitation totals against Modified Zone thresholds. Shut down if one or more totals exceed thresholds.

Other Risk Factors:

- **RoS:** Rain falling on snow (any amount of snow) at the job site;
- **WS:** Warm temperatures (greater than 5 °C at the gauge) with any amount snow present on the ground at the job site
- **HW:** High winds (windspeed reported or predicted >60 km/h, or visibly breaking branches, or causing windthrow), at the job site;
- **VW:** Very wet conditions (applies during any period of three weeks (21 days) or longer, with precipitation recorded on every day)
- **HSF:** Visibly high stream flow (ditches full and overflowing onto roads, culverts discharging at capacity, culverts blocked by debris flow and diverting water to adjacent streams, floodwater present on adjacent highways, etc.)
- **E:** Earthquakes of magnitude 5.0 or greater within last week, reported with epicenter within 50 km of work site.

If the presence of additional risk factors increases the zone beyond Zone 6, i.e. beyond the "identified unstable conditions" zone, work should shut down regardless of whether or not the rainfall shutdown value has been exceeded, and should remain shut down until the additional risk factors are no longer present.

If precipitation is intense during the work shift, it may be necessary to check the gauge more frequently than twice a day to determine if 12-hour shutdown threshold is exceeded. Do not empty the gauge on these extra checks or accurate 12-hour precipitation totals will be lost.

Table 1: Shutdown Criteria by Zone within the TSG and TCH Business Areas

Zone	Zone (annual precipitation)	Time Period			
		At start of or before end of shift (12-hr)	24-hr	48-hr	72-hr
1	Very wet (3000 mm to 4000 mm or more)	60 mm	100 mm	150 mm	200 mm
2	Wet (2500 mm to 3000 mm)	50 mm	80 mm	120 mm	160 mm
3	Average (1500 mm to 2500 mm)	40 mm	70 mm	100 mm	130 mm
4	Dry (750 mm to 1500 mm)	30 mm	50 mm	80 mm	110 mm
5	Very dry (less than 750 mm)	20 mm	30 mm	50 mm	80 mm
6	Identified Unstable Conditions	10 mm	20 mm	30 mm	40 mm

Resumption of Work Following Shut Down

Once 12-hour or 24-hour shutdown criteria have been exceeded, work should remain shut down for at least 24 hours after the hazardous conditions end. In the case of 48-hour or 72-hour rainfall criteria being exceeded, work should remain shut down for at least two days (48 hours) after shutdown criteria have been exceeded. If workers and supervisors believe it is safe for work to resume before the recommended 24- or 48-hour period is over, they should consult a qualified professional to confirm and document this before resuming work.

Wet Weather Shutdown Guidance Field Table

[illegible]



BCTS TSG/TCH – Wet Weather Shutdown Guidance – Definition of Landslide Prone Terrain

Purpose:

To define “Landslide prone terrain” for the purpose of applying the TSG/TCH Wet Weather Shutdown Criteria.

Wet Weather Shutdown Criteria Scope:

As per the TSG/TCH Wet Weather Shutdown Criteria Operational Guidelines document dated March 15, 2018 developed by Drew Brayshaw Ph. D., P. Geo. of Statlu Environmental Consulting Ltd., “Shutdown criteria apply when work site or access routes are located on, downslope of, or are exposed to landslide-prone terrain, as defined in the guidance document.”

Definition of Landslide Prone Terrain

“Landslide prone terrain includes, but is not limited to:

- Areas with greater than 60% slope gradients (greater than 50% on Haida Gwaii),
- areas mapped as unstable or potentially unstable (U or P) on reconnaissance terrain stability mapping,
- areas mapped as Class III, IV, IVR, or V on detailed terrain stability mapping,
- areas identified as being subject to slope instability or where landslides would deposit in terrain stability field assessments,
- gullies or alluvial fans,
- areas where past instability has occurred.

Exceptions may be made where the nearest landslide-prone terrain is more than 300 m upslope of the work site or access route and the intervening terrain is low-gradient (i.e. with slope gradients of 30% or less throughout).”

Reference:

Statlu Environmental Consulting., March 15 2018. Wet Weather Shutdown Criteria Harmonization, BCTS Chinook and Strait of Georgia Business Areas. Project Number: 17 -126.



TECHNICAL MEMORANDUM

To: BC Timber Sales, Strait of Georgia and Chinook Business Areas

From: Drew Brayshaw, Ph. D., P. Geo.

Date: March 15, 2018

RE: Wet Weather Shutdown Criteria for Worker Safety – Operational Guidelines

This document outlines the recommended procedure to determine whether or not forestry operations should be shut down due to adverse weather conditions which present a risk to workers and equipment. It is intended to be used by BC Timber Sales' staff, licensees, and contractors to help determine safety shutdown procedures for field workers. It is only intended to protect worker safety with respect to landslides, debris flows, and other hazardous geotechnical phenomena and was not designed to address, for example, environmental shutdown criteria to protect water quality or fish habitat.

When to Use the Shutdown Criteria

Shutdown criteria apply when work sites or access routes are located on, downslope of, or are exposed to landslide-prone terrain, as defined in the guidance document. Workers are exposed to terrain stability hazards not only at the work site but also along access routes that reach the work site. Accordingly shutdown criteria apply not only to work sites such as cutblocks and roads under construction, but also roads used for access to and from these work sites, except for public highways. Shutdown criteria apply to all BCTS staff and contractors and provide guidance to licensees.

Workers should check forecasts and predicted/reported rainfall totals before travelling to the work site. Environment Canada provides forecasts and measurements of rainfall of varying accuracy for all of the areas of the TSG and TCH business areas. These forecasts are available online, are broadcast, and are updated several times per day. Where forecasts and measurements do not accurately reflect conditions at the work site, they typically underestimate, rather than overestimate, actual rainfall experienced on site. If predicted or recorded rainfall for the day from the Environment Canada weather forecast exceeds the listed shutdown thresholds, it is likely

STATLU ENVIRONMENTAL CONSULTING LTD.
1-45950 Cheam Avenue
Chilliwack, BC V2P 1N6

unsafe to travel to the work site, and there is no need to expose workers to additional hazards by requiring them to check the rain gauge at the work site. If predicted rainfall for the day, for example, is 80 mm, and the shutdown criteria for the job site is 50 mm/24 hr, it is unnecessary to check an on-site rain gauge: assume that it is not safe to work that day.

How to Use These Shutdown Criteria

The wet weather shutdown criteria are based on a zone model, with five zones identified based on climate criteria, and a sixth zone based on *identified unstable conditions*. The five climatic zones are based on mean annual precipitation (Table 1). The sixth zone recognizes the presence of unstable conditions warranting special measures and extra caution to protect worker safety which may be present in any climatic zone. It can and will be identified by BCTS staff before work takes place. Determination of the applicable climatic zone will also be made by BCTS staff or planning and development contractors before work begins. The applicable zone and associated shutdown thresholds can be included within the project particulars (e.g. Contract, License etc.).

Refer to Table 1 to determine shutdown criteria for 12-, 24-, 48- and 72-hour time periods for the appropriate zone. Temperature and precipitation will be measured at the job site using a rain gauge and thermometer. Total rainfall measured by the gauge and air temperature are to be recorded at the start and end of every work shift (at minimum, twice a day).

Table 1: Shutdown Criteria by Zone within the TSG and TCH Business Areas

Zone	Zone (annual precipitation)	Time Period			
		At start of or before end of shift (12-hr)	24-hr	48-hr	72-hr
1	Very wet (3000 mm to 4000 mm or more)	60 mm	100 mm	150 mm	200 mm
2	Wet (2500 mm to 3000 mm)	50 mm	80 mm	120 mm	160 mm
3	Average (1500 mm to 2500 mm)	40 mm	70 mm	100 mm	130 mm
4	Dry (750 mm to 1500 mm)	30 mm	50 mm	80 mm	110 mm
5	Very dry (less than 750 mm)	20 mm	30 mm	50 mm	80 mm
6	Identified Unstable Conditions	10 mm	20 mm	30 mm	40 mm

Table 1 assumes that rainfall will be measured in the gauge located at the work site. Rain gauges are usually located near where workers enter the job site. It is expected that in some forestry settings, there may be a considerable elevation range between the elevation of the rainfall gauge and the highest elevation at which work is taking place, and that more rainfall may occur at higher elevations than is measured at the gauge. The shutdown criteria incorporate this assumption.

Modifiers to Shutdown Criteria

Numerous factors other than direct rainfall can contribute to slope instability, including snow melt (either from rain-on-snow precipitation, high temperatures, or both), high winds, blocked drainage structures or diverted drainage upslope, long-term antecedent precipitation, earthquakes, and other less probable events. To account for these factors without requiring multiple difficult and potentially inaccurate calculations, a simpler system is used. Potential additional risk factors beyond simple rainfall totals are listed below. The presence of one or more of these additional risk factors cause the zone number used to determine the shutdown criteria to change. Each additional risk factor present increases the zone number by one. For instance, a project is located in Zone 2 which has a 24 hr. threshold of 80 mm. A storm brings 60 mm of rainfall in 24 hours, accompanied by both warm temperatures with snow present (one factor) and rain falling on snow (one factor). Zone 2 is therefore shifted to Zone 4 (base of 2, plus two for additional risk factors). The measured 60 mm of rainfall is greater than the 24-hr shutdown value of 50 mm in Zone 4, so work shuts down.

The presence of, and number of, additional risk factors should be noted and recorded at the same time that precipitation and temperature are recorded at the gauge. In cases where weather conditions change quickly, such as if intense precipitation falls, or if recorded values are close to a shutdown threshold, it may be necessary to check the rainfall gauge more than twice a day to determine if unsafe conditions are occurring.

The additional risk factors beyond rainfall totals are:

- Rain falling on snow at the job site;
- Warm temperatures (greater than 5 °C at the gauge) with snow present on the ground at the job site;

For these two conditions, any snow, even small amounts of patchy snow, at the job site is counted as snow. Small amounts of snow at a job site indicate larger amounts of snow upslope.

- High winds (windspeed reported or predicted >60 km/h, or visibly breaking branches or causing windthrow) at job site;
- Very wet conditions (defined as any period of 21 days or longer with precipitation recorded on every day). Periods longer than 21 days do not increase the very wet conditions hazard further;
- Visibly high stream flow (ditches full and overflowing onto roads, culverts discharging at capacity, culverts blocked by debris flow and diverting water to adjacent streams, floodwater present on adjacent highways, etc.)
- Earthquakes of magnitude 5.0 or greater within last week, reported with epicenter within 50 km of job site.

If the presence of additional risk factors increases the zone beyond Zone 6, i.e. beyond the *identified unstable conditions* zone, work should shut down regardless of whether or not the rainfall shutdown value has been exceeded, and should remain shut down until the additional risk factors are no longer present or until a qualified professional approves a return to work.

Other Shutdown Criteria

In addition to shutdowns resulting from the exceedance of rainfall criteria, workers and supervisors should remain aware of other indicators of geotechnical instability. These can include, but are not limited to:

- Pulses of sediment-laden water in streams, especially in gullies,
- Streams suddenly drying up when conditions are otherwise wet,
- Constant small rock falls,
- Cutslope slumps that block ditches and/or roads,
- Tension cracks appearing in road fills or slopes,
- Fresh avalanches, landslides or debris flows or their deposits observed that were not present during the last shift,
- Anchor stumps pulling out of wet ground during cable yarding,
- Diverted streams with flow appearing in new stream courses that were previously dry.

If any of these indicators of instability are observed, work should shut down until a qualified professional can be brought in to determine if it is safe for work to proceed.

Resumption of Work Following Shut Down

Once shutdown criteria have been exceeded, work should remain shut down for at least 24 hours after the hazardous conditions end. In the case of 48-hour or 72-hour rainfall criteria being exceeded, work should remain shut down for at least two days (48 hours) after shutdown criteria have been exceeded. If workers and supervisors believe it is safe for work to resume before the recommended 24- or 48-hour period is over, they should consult a qualified professional to confirm and document this before resuming work.

Yours truly

Statlu Environmental Consulting Ltd.



Prepared by:

Drew Brayshaw, Ph. D., P. Geo.

Senior Hydrologist and Geoscientist

Reviewed by:

Eryne Croquet, M. Sc., P. Ag., P. Geo.

Geoscientist and Agrologist

A93884 Clack Creek TSL

From Knapp, Allan FLNR:EX </O=BCGOVT/OU=EXCHANGE ADMINISTRATIVE GROUP
: s.15

To: Laren Saindon <lsaindon@btheli.com>

Sent: August 20, 2019 2:43:24 PM PDT

Hey Laren,

Hope summer has been going well for you.

We are approaching the Fall months, but I haven't heard from you as to whether you plan to start the Clack TSL. Do you plan to start in September, or will you be waiting until later in the fall?

Thank you,

Allan Knapp, RPF

Forest Technologist, BCTS – TCH

Timber Operations, Pricing and First Nations

7077 Duncan St., Powell River, V8A 1W1

(604) 485-0735 (office)

(604) 413-0653 (cell)

Allan.Knapp@gov.bc.ca

Clack JR Judgement to be Released Tomorrow

From: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>
To: Laren Saindon <lsaindon@btheli.com>
Cc: Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>, Barss, Peter J FLNR:EX <Peter.Barss@gov.bc.ca>, Girard, Amanda FLNR:EX <Amanda.Girard@gov.bc.ca>, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: November 21, 2019 4:39:53 PM PST

Laren:

s.14 I will share once I

receive notice.

Thanks,

Stacey

Stacey Gould, MScF, RPF

Timber Sales Manager

BC Timber Sales - Chinook Business Area

Ministry of Forests, Lands, Natural Resource Operations, and Rural Development

Office: 778.704.7097 | Fax: 604.702.5711 | [BC Timber Sales Website](#)

Re: A93884 Clack Creek TSL Prewrite Dec 18th 8:30

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>, Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>
Sent: December 5, 2019 1:06:17 PM PST

Hi Allen. Can we use this email to suffice as the 14 day notification of activity?

Sent from my iPhone

On Dec 5, 2019, at 11:48 AM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Hello Dave,

As per our call, December 18th at 8:30am will be our pre-work meeting. I will have Mike and Jocelyn attending to provide details on this TSL they may be more familiar with. We also have a new Operations Technician, so she will be joining the meeting as well.

Attached are documents that should be filled out prior to the prework meeting.

Notably, having the letter of authorization and CRP designation to establish those acting on behalf of Black Mount Logging, and fill out the LPC training summary (Table -008).

Though you may not be aware of who will be onsite for the LPC training summary at this time, at least list who your supervisors will be, and ensure their EMS-supervisor training is up to date.

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Timber Operations, Pricing, and First Nations Branch

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-613-0653

<2g - Radio Frequency Use Authorization Form.pdf>

<CRP_Designation_BCTS TSL_26April2019.pdf>

<Letter of Authorization BCTS Chinook.pdf>

<Notice of Active Logging.docx>

<1a - ERP-Supplement-TCH.pdf>

<1a - LPC-eERP-Template.pdf>

<2f - Table-008-1A-LPC-Training-Summary.docx>



December 6, 2019

BC Timber Sales, Chilliwack Business Area
Powell River Field Team
46360 Airport Road
Chilliwack, B.C. V2P 1A5

VIA: Forests.ChinookTimberSalesOffice@gov.bc.ca

RE: Notification of Harvest and Road Construction Activities.

Attention: Stacey Gould, MscF, RPF, Timber Sales Manager

As per Schedule A, Section 1.01 of TSL A93884 in the vicinity of Clack Creek, please accept this as formal notification of our intentions to commence timber harvesting or road construction on TSL A93884. This notification is required to provide 14 days' notice prior to the commencement of operations.

We currently have a pre-work scheduled with Allan Knapp, RPF and the BCTS Powell River Field Team for the 18th of December in Powell River. If you have any questions, please do not hesitate to contact the undersigned.

Thank-you

BLACK MOUNT LOGGING INC

A handwritten signature in black ink, appearing to read "Dave Rollins", is placed above the typed name.

Dave Rollins, RPF, P.Eng
Operations Engineer
Cell: 250-202-7848

CC: Laren Saindon, Logging Manager lsaindon@btheli.com
Allan Knapp, RPF, Forest Technologist, BCTS Allan.Knapp@gov.bc.ca

RUP for A93884

From: Dave Rollins <drollins@bmlogging.com>
To: FTA.DSC@gov.bc.ca, FTA DSC, FOR P FLNR:EX <FTA.DSC@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>, Knapp, Allan FLNR:EX
<Allan.Knapp@gov.bc.ca>
Sent: December 6, 2019 4:03:46 PM PST
Attachments: A93884_I1_RUP_Application 06 DEC 2019.pdf

Please find attached. If you have any questions or require more information please do not hesitate to contact the undersigned.

Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848



ROAD USE PERMIT APPLICATION For Industrial Use of a Forest Service Road

Date: 06 DEC 2019

Name of Applicant: Black Mount Logging Inc.
Address: 2021 Paco Road, Squamish, BC V8B 0J6
Telephone: 604-898-5415 Fax: 604-898-5426
E-Mail Address: drollins@bmlogging.com, lsaindon@btheli.com

This application is for the use of those Forest Service roads which are shown on the attached Schedule A or map, for the purpose of either:

- ☒ timber harvesting (check applicable licence/permit/agreement)
- | | |
|---|---|
| <input type="checkbox"/> forest licence | <input type="checkbox"/> timber licence |
| <input type="checkbox"/> tree farm licence | <input type="checkbox"/> community salvage licence |
| <input type="checkbox"/> community forest agreement | <input type="checkbox"/> first nations woodland licence |
| <input type="checkbox"/> woodlot licence | <input type="checkbox"/> Christmas tree permit |
| <input type="checkbox"/> forestry licence to cut | <input checked="" type="checkbox"/> timber sale licence |

and identify associated number(s) A93884

or ☐ non-forest licence industrial use (specify use and authority) _____

Vehicle Size

The dimensions and weights of vehicles to be used on the road shall either

- ☒ Conform to Ministry of Transportation and Infrastructure (MOTI) Regulations
or
☐ be Off-Highway, as per the option shown on the attached (Schedule A)

Estimated maximum number of loads per day 12

Approximate start date Feb 1 and estimated completion date April 30, 2020

Where there is another permittee required to carry out the maintenance, I acknowledge that I will be expected to notify and reach agreement with that permittee to share road maintenance responsibilities, including costs. I am aware that the District Manager may require me to carry out road maintenance on any or all of the roads for which this application is made.

Applicant's Signature
Dave Rollins, RPF. P.Eng

Print Name

**ROAD USE PERMIT
SCHEDULE A**

Date: _____ File: _____

FSR Name/Project Number	FSR Branch No.	Section to be Used		If Off-Highway, Indicate Vehicle Size A, B, or C From Next Section	FLNR USE ONLY Road Use Permit holder required by district manager to maintain the FSR Name/telephone number
		km to km			
Sechelt Roberts FSR	02	0.0	7.2		
Roberts Flume FSR	01	0.0	5.2		
Roberts Flume FSR	05	0.0	0.6		
Sechelt Roberts FSR	03	0.0	1.5		
Sechelt Roberts FSR	21	0.0	0.8		

The dimensions and weights of vehicles not indicated for off-highway use shall conform to Ministry of Transportation and Infrastructure

SCHEDULE A (continued)

Off-Highway Vehicle Size

The dimensions and weights of vehicles to be used on the road(s) shall conform to option A, B, or C and be shown on previous section.

A

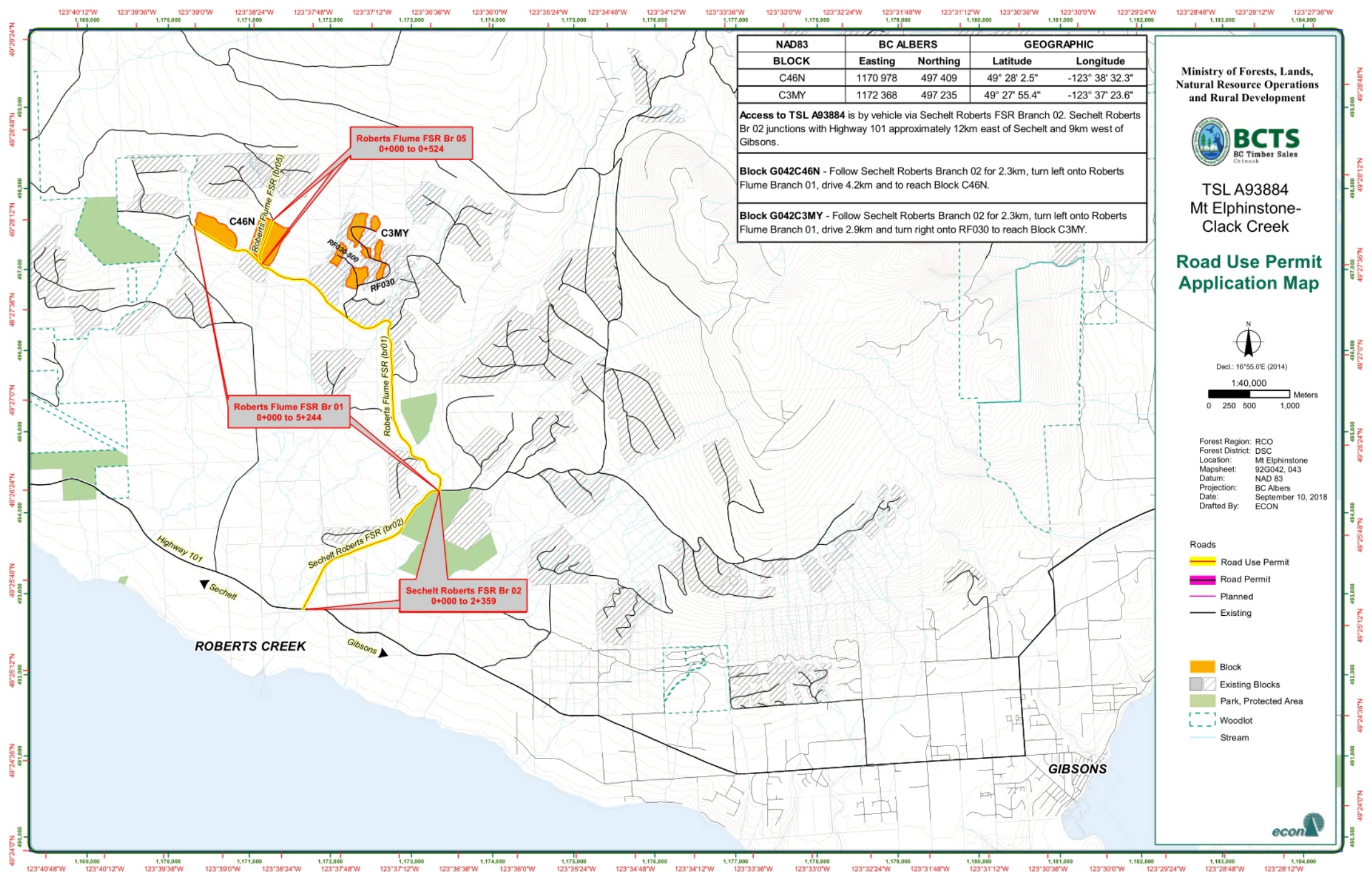
Length:	_____ m	Overhang beyond rear trailer bunk:	_____ m
Width:	_____ m	Weight Axle (Tandem):	_____ kg
Height:	_____ m	GVW:	_____ kg

B

Length:	_____ m	Overhang beyond rear trailer bunk:	_____ m
Width:	_____ m	Weight Axle (Tandem):	_____ kg
Height:	_____ m	GVW:	_____ kg

C

Length:	_____ m	Overhang beyond rear trailer bunk:	_____ m
Width:	_____ m	Weight Axle (Tandem):	_____ kg
Height:	_____ m	GVW:	_____ kg



NAD83	BC ALBERS		GEOGRAPHIC	
BLOCK	Easting	Northing	Latitude	Longitude
C46N	1170 978	497 409	49° 28' 2.5"	-123° 38' 32.3"
C3MY	1172 368	497 235	49° 27' 55.4"	-123° 37' 23.6"

Access to TSL A93884 is by vehicle via Sechelt Roberts FSR Branch 02. Sechelt Roberts Br 02 junctions with Highway 101 approximately 12km east of Sechelt and 9km west of Gibsons.

Block G042C46N - Follow Sechelt Roberts Branch 02 for 2.3km, turn left onto Roberts Flume Branch 01, drive 4.2km and to reach Block C46N.

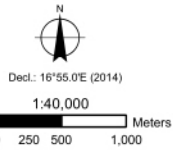
Block G042C3MY - Follow Sechelt Roberts Branch 02 for 2.3km, turn left onto Roberts Flume Branch 01, drive 2.9km and turn right onto RF030 to reach Block C3MY.

Ministry of Forests, Lands,
Natural Resource Operations
and Rural Development



TSL A93884
Mt Elphinstone-
Clack Creek

Road Use Permit Application Map



Forest Region: RCO
Forest District: DSC
Location: Mt Elphinstone
Mapsheet: 92G042, 043
Datum: NAD 83
Projection: BC Albers
Date: September 10, 2018
Drafted By: ECON

- Roads**
- Road Use Permit
 - Road Permit
 - Planned
 - Existing

- Block
- Existing Blocks
- Park, Protected Area
- Woodlot
- Stream



FW: A93884 Notification

From: Dave Rollins <drollins@bmlogging.com>
To: FTA.DSC@gov.bc.ca, FTA DSC, FOR P FLNR:EX <FTA.DSC@gov.bc.ca>
Cc: Mark.scott@gov.bc.ca, Davenport, Michael FLNR:EX
<michael.davenport@gov.bc.ca>, Laren Saindon <lsaindon@btheli.com>,
Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>, Scott, Mark L FLNR:EX
<Mark.Scott@gov.bc.ca>
Sent: December 6, 2019 4:05:41 PM PST
Attachments: A93884 Harvest Notification..pdf

Please find attached for your records as per Allan Knapp's recommendation below.

Thank-you

Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848

From: Knapp, Allan FLNR:EX [mailto:Allan.Knapp@gov.bc.ca]

Sent: Friday, December 6, 2019 3:38 PM

To: Dave Rollins <drollins@bmlogging.com>

Cc: Laren Saindon <lsaindon@btheli.com>

Subject: RE: A93884 Notification

You will also need to send this to the following:

District Manager: FTA.DSC@gov.bc.ca

C&E: Mark.scott@gov.bc.ca

Scaling: Michael.Davenport@gov.bc.ca

Also I recommend contacting FTA.DSC@gov.bc.ca in our office about getting the RUP set up. If you don't start that process now, they may not be able to get it done by the time everyone is on holidays.

Thank you,

Allan Knapp, RPF
Forest Technologist – BCTS – TCH
Timber Operations, Pricing, and First Nations Branch
Ministry of Forests Lands and Natural Resource Operations
7077 Duncan St, Powell River, BC, V8A 1W1
Office 604-485-0735 & Cell 604-613-0653

From: Dave Rollins <drollins@bmlogging.com>

Sent: December 6, 2019 1:18 PM

To: Chinook Timber Sales Office, Forests FLNR:EX <Forests.ChinookTimberSalesOffice@gov.bc.ca>

Cc: Laren Saindon <lsaindon@btheli.com>; Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Subject: A93884 Notification

Please find attached

Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848

Re: A93884 Notification

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: December 6, 2019 4:31:49 PM PST

Hate for that to happen when the Forest of Hearts comes alive. 😊
Have a good weekend.

Sent from my iPhone

On Dec 6, 2019, at 4:21 PM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Thanks Dave,
I get it seems odd since some of us are in the same office, but they don't like it coming from BCTS because it starts to look like BCTS is the one representing the licensee.
Thank you,
Allan Knapp, RPF
Forest Technologist – BCTS – TCH
Timber Operations, Pricing, and First Nations Branch
Ministry of Forests Lands and Natural Resource Operations
7077 Duncan St, Powell River, BC, V8A 1W1
Office 604-485-0735 & Cell 604-613-0653

From: Dave Rollins <drollins@bmlogging.com>
Sent: December 6, 2019 4:06 PM
To: FTA DSC, FOR P FLNR:EX <FTA.DSC@gov.bc.ca>
Cc: Scott, Mark L FLNR:EX <Mark.Scott@gov.bc.ca>; Davenport, Michael FLNR:EX <Michael.Davenport@gov.bc.ca>; Laren Saindon <lsaindon@btheli.com>; Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Subject: FW: A93884 Notification
Please find attached for your records as per Allan Knapp's recommendation below.
Thank-you
Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848

From: Knapp, Allan FLNR:EX [<mailto:Allan.Knapp@gov.bc.ca>]
Sent: Friday, December 6, 2019 3:38 PM
To: Dave Rollins <drollins@bmlogging.com>
Cc: Laren Saindon <lsaindon@btheli.com>
Subject: RE: A93884 Notification
You will also need to send this to the following:
District Manager: FTA.DSC@gov.bc.ca
C&E: Mark.scott@gov.bc.ca
Scaling: Michael.Davenport@gov.bc.ca
Also I recommend contacting FTA.DSC@gov.bc.ca in our office about getting the RUP set up. If you don't start that process now, they may not be able to get it done by the time everyone is on holidays.
Thank you,
Allan Knapp, RPF
Forest Technologist – BCTS – TCH
Timber Operations, Pricing, and First Nations Branch
Ministry of Forests Lands and Natural Resource Operations
7077 Duncan St, Powell River, BC, V8A 1W1
Office 604-485-0735 & Cell 604-613-0653

From: Dave Rollins <drollins@bmlogging.com>

Sent: December 6, 2019 1:18 PM

To: Chinook Timber Sales Office, Forests FLNR:EX <Forests.ChinookTimberSalesOffice@gov.bc.ca>

Cc: Laren Saindon <lsaindon@btheli.com>; Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Subject: A93884 Notification

Please find attached

Dave Rollins, RPF, P.Eng

Operations Engineer

Black Mount Logging Inc.

Cell: 250-202-7848

Re: A93884 Clack EMS documents

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Sent: December 23, 2019 4:02:00 PM PST

Everything will be in place prior to start up. There's a very slight chance we'll start before the new year. But I'll keep you in the loop.

Dave

Sent from my iPhone

On Dec 23, 2019, at 3:51 PM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Hello Folks,

Just a reminder that following documents meant for the pre-work meeting are due before any operations or by January 2, 2020.

LPC training summary

Agent Authorizations

CRP Authorization

Radio Frequency Use Authorization Letter

Environmental Emergency Response Plan

Emergency Response Plan supplement

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Timber Operations, Pricing, and First Nations Branch

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

BCWS emergency contact template A93884 Mt Elphinstone

From: Dave Rollins <drollins@bmlogging.com>
To: Forests.CoastalFireCentre@gov.bc.ca, BCWS COFC Dispatch FLNR:EX
<BCWS.COFCDispatch@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>, Derek Saindon <ops@btheli.com>,
Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: January 4, 2020 10:34:01 AM PST
Attachments: BCWS emergency contact template 2020JAN04.pdf

Please find attached.
Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848



Emergency Contact Information Form

For all users: Please refer to the [Wildfire Act](#) and [Wildfire Regulation](#) for statutory responsibilities, obligations and requirements.

INFORMATION ABOUT THE ACTIVITY

Date Form Completed 2020-01-04

Worksite Details (manned facilities only e.g. staff on site > 4 hrs/day)	
Project Name Clack Creek A93884	Project Number A93884
Physical location of activity (helpful if map attached, or attach additional information as necessary) Mt Elphinstone, Clack Creek, Sechlet	Type of Activity Timber Harvesting Specify: _____ Format for Lat & Long: Degrees[space] Minutes[.]Decimal (e.g. 125 15.20)
	Lat 49 28 2.5 Long 123 38 32.3
	UDO ID (UDO information to be completed by WMB)

Duration of Activities (enter date(s) for appropriate period only)

Temporary	Start 2020-01-06	End 2020-04-30
Intermittent	Dates	Permanent Start Date

Company Contact Information (INCLUDING sub-contractors - add additional pages if necessary)

(For more than one temporary activity taking place, one central contact and number would be sufficient information provided)

24 hr Company Emergency Line(s) #		
Company Name Black Mount Logging Inc.		
Contact Laren Saindon	Phone (604) 892-7841	E-mail lsaindon@btheli.com

Alternate 24 hr Contact Name and Phone(s)		
Company Name Black Mount Logging Inc.		
Contact Derek Saindon	Phone (604) 892-4625	E-mail ops@btheli.com

Other Key Emergency Contact(s) # – List contractors and sub-contractors (attach additional pages as necessary)

Company Name Black Mount Logging Inc.		Phone
Contact Dave Rollins	Phone (250) 202-7848	E-mail drollins@bmlogging.com

List of industrial activities (OPTIONAL to complete – as specified in the [Wildfire Regulation](#))

☒ Any high risk activity as defined in the Wildfire Regulation

Operating equipment or machinery in relation to forest management during:	Operating equipment or machinery in relation to activities other than forest management during:
<input checked="" type="checkbox"/> road construction, road maintenance and road deactivation <input checked="" type="checkbox"/> timber harvesting, including sorting logs <input type="checkbox"/> mechanical modification of forest debris and debris piling <input type="checkbox"/> silviculture treatments <input type="checkbox"/> portable wood chipping, milling, processing or manufacturing <input type="checkbox"/> other (specify) _____	<input checked="" type="checkbox"/> debris piling <input checked="" type="checkbox"/> road construction, road maintenance or road deactivation <input checked="" type="checkbox"/> rock drilling <input type="checkbox"/> mining operations <input type="checkbox"/> railway operations <input type="checkbox"/> utility transmission operations <input type="checkbox"/> portable wood chipping, milling, processing or manufacturing <input type="checkbox"/> other (specify) _____

Fire Emergency Contact Information

Forest Fire Reporting: 1-800-663-5555 or * 5555 on most cellular networks

Fire Centre Contact Information (know which fire centre is local to your activities) See [Map](#).

Fire Centre	E-mail Form to:	Office Phone
Coastal	Forests.CoastalFireCentre@gov.bc.ca	250-951-4222
Southeast	FORFSOP.FCRSE@gov.bc.ca	250-365-4040
Kamloops	FORHPRP.RWCOKAM@gov.bc.ca	250-554-7701
Cariboo	FORFCAP.FCRCAR@gov.bc.ca	250-989-2600
Prince George	RWCOPG@gov.bc.ca	250-565-6126
Northwest	FORFNOP.FCRNW@gov.bc.ca	250-847-6633
BC Wildfire Management Branch Website: http://bcwildfire.ca		

Complete this form and submit electronically to the appropriate Fire Centre.

A93884 Radio Frequency Use Authorization Form

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Sent: January 4, 2020 10:42:22 AM PST
Attachments: 2g - Radio Frequency Use Authorization Form 2020JAN04.pdf

Please see attached.

Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848

Radio Frequency Use Authorization Form

Company: Black Mount Logging Inc.

Division: _____

Address: 2021 Paco Road, Squamish BC V8B 0J6

This form authorizes:

BC Ministry of Forests (BCTS and Ops Div): Yes / No

Firefighting operations: Yes / No

Contractors employed to do work for BCTS: Yes / No

to operate radios on the frequency(ies) listed below (or attached as a separate file) for road safety or safe site entry in compliance with WorkSafeBC requirements.

Mobile Transmit	Mobile Receive	Tone	Name / Area of Operation
1. 158.640 MHz	158.640 MHz	_____	BML1
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____

Expiry Date is 5 years from date signed unless otherwise specified: 2020-12-31

Signed: 

Printed Name: Dave Rollins

Title: Operations Engineer

Date: 2020-01-04

A93884 Pre-work Documents

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Sent: January 4, 2020 12:10:38 PM PST
Attachments: CRP_Designation_BCTS TSL_2020JAN04.pdf, 1a - LPC-eERP-Template.pdf, A93884 1a - ERP-Supplement-TCH.pdf, Table-008-1A-LPC-Training-Summary 2020 A93884.pdf

Allan,

Happy New Year, please find attached the required forms as requested.

We will be continually updating the LPC Training Summary as we proceed with the copy I have placed in the binder. I will initially be updating the BCTS EMS Tailgate training and the SFM awareness with the crew on-site during our pre-work as the different members of the crew arrive on-site. In addition, we intend to have annual refreshers conducted for WHMIS and S-100 during the month of January.

I have provided Laren with a copy of the signing authority form for him to sign and I should have it shortly. If you have any questions or require more information please do not hesitate to give me a call. As discussed at the pre-work we will let you and Tom know prior to us physically starting up.

Thanks

Dave Rollins, RPF, P.Eng
Operations Engineer
Black Mount Logging Inc.
Cell: 250-202-7848


BCTS Timber Sale Licence (TSL) Coordinating Resource Professional (CRP) Designation

BCTS requires the licensee to designate a qualified professional to act as a Coordinating Resource Professional, in order to take responsibility for reviewing, amending, and successfully implementing measures, plans and prescriptions made for the TSL by other qualified professionals, such as Professional Engineers (P.Eng). The Licensee maintains accountability for the actions of all designated agents and the CRP. This designation is not absolving P.Engs and prior CRPs for their actions and submissions, rather it transfers the ongoing responsibilities of the previous CRP to the current licensee's own CRP.

Previous CRP (include person's name, company, address, phone, email, restrictions):

--

TSL #	Date
A93884	2020-01-04

Licensee	Client #
Black Mount Logging Inc.	s.21
<div style="display: flex; justify-content: space-between;"> <div> Dave Rollins <small>Person's Name (please print)</small> </div> <div>  <small>Signature</small> </div> </div>	<div style="text-align: right;"> 2020-01-04 <small>Signature Date</small> </div>

Individual(s) below are hereby authorised to act as CRP on behalf of the licensee subject to indicated restrictions
(Include person's name, company, address, phone, email, restrictions):

Dave Rollins, RPF, P.Eng Black Mount Logging Inc. 2021 Paco Road Squamish, BC V8B 0J6 Cell: 250-202-7848 email: drollins@bmlogging.com		2020-01-04 <small>Signature Date:</small>
<small>CRP Signature:</small>		

<small>CRP Signature:</small>	<small>Signature Date:</small>
-------------------------------	--------------------------------

Part A *Core Information*

Worksite Details

Project (TSL or Contract)# A93884

Physical location of activity: Mt Elphinstone, Clack Creek

Latitude: 49 28' 2.5 " N

Longitude: 123 38' 32.3" W

C46N

Latitude: 49 27' 55.4" N

Longitude: 123 37' 23.6" W

C3M7

Latitude:

Longitude:

Duration of Activities:

Date: 2020 Year 04 Month 30 Day

Company Contact Information

24 hr Contact Name and Phone (s) #: Laren Saindon 604-892-7841, lsaindon@btheli.com

Company Name/Email:

Other Key Emergency Contact(s) #: Dave Rollins 250-202-7848, drollins@bmlogging.com

Environmental Emergency Contact Information

Forest Fire Reporting : **1-800-663-5555** or * **5555** on the Cantel and Telus networks

Spill Reporting: **1-800-663-3456** Emergency Management BC (EMBC)

Natural Gas Leaks: Contact EMBC and utility company (if known): FortisBC **1-800-663-9911** (Northeast, Fraser Valley, South), Pacific Northern Gas (Northwest and Northeast) **1-800-663-1173**, Spectra Energy (Northeast and Fraser Valley) **1-800-663-9931**

CANUTEC (Canadian Transport Emergency Centre): **1-613-996-6666** or ***666** on cell phone

BC Timber Sales Contact: Allan Knapp

Daytime Phone #: 604-485-0735

Emergency Phone #: 604-413-0653

Part B *Supplemental Information (Use and content at discretion of local BA)*

General Contact Information

Police: 911

WorkSafeBC: 1-888-621-7233, after hrs 1-866-922-4357

Ambulance: 911

Canadian Coast Guard: 1-800-567-5111 or cell #727

Fire Department: 911

Hospital: (604) 885-2224

Poison Control Centre: 1-800-567-8911

Water Taxi / Ferry: N/A

Helicopter / Aircraft: 604-898-4800

BC Wildfire Service Website: <http://bcwildfire.ca>

BC Wildfire Service Phone and Fax # (Circle Fire Centre in which activities are occurring):

Coastal: 250 951-4200 Fax: 250-954-0819

Part C Core Information

FOREST FIRE PREPAREDNESS AND RESPONSE

Initial Fire Response

1. Stop operations and notify the rest of the crew.
2. **Report Forest Fires immediately to the BC Wildfire Service (BCWS) and BCTS.**
3. The person reporting the fire shall remain in contact to communicate details of the fire suppression activities taken and what additional activities may be required.
4. The remaining crew shall begin immediate action to control and extinguish the fire, if practicable and safe to do so, to the extent of their training and competence.
5. The person in charge of a crew taking action to control a fire is responsible for continuing fire control activities until relieved by the licensee/contractor representative or BCWS personnel.

If Alone

- Take immediate action on the fire if you believe you can safely control it yourself. Report the fire to BCWS and the licensee/contractor representative as soon as you feel that the fire can be left alone without spreading out of control.
- If the fire is beyond your ability, notify the BCWS immediately and follow their instructions. DO NOT take action on an intense fire yourself.

- ☒ **Complete an Incident Report Form (CHK-009 or equivalent) and submit to BCTS.**

Fire Roles and Responsibilities

Prior to Start-Up and During Operations

☒ For All Industrial Activities

- Determine fire response equipment for the type of operation and associated fire risk to comply with the Wildfire Regulation: http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/11_38_2005
- When conducting an industrial operation, sufficient *firefighting hand tools* must be available on site whenever the area is snow free and there is a risk of a fire starting or spreading.
- Hand tools must be a combination and type to properly equip each person who works at the site with a minimum of one firefighting hand tool per person. Tools may include shovels, mattocks, pulaskis, fire extinguishers and hand tank pumps. The BCTS general rule for assessing the adequacy of firefighting hand tools is:
of workers assigned to the site during normal work hours = # of hand tools on site

☒ For High Risk Industrial Activities

- Determine if your operations are High Risk as defined in Part 1 of the Wildfire Regulation.
- Determine the danger class, follow danger class restrictions and durations, keep sufficient *firefighting hand tools* plus an adequate *fire suppression system* at the activity site, and maintain fire watcher and communication requirements.
- A fire suppression system means a system for suppressing fire by delivering water, a suppressant, a surfactant, or any combination of these substances.

☒ Determine Restrictions on High Risk Industrial Activities

- Acquire local weather data to comply with the Wildfire Regulation. Weather station information is available from the BCWS website at <http://www.bcwildfire.ca/Weather/stations.htm>
- Danger class ratings for your site may be higher than those calculated by the BCWS. Consider local conditions when determining applicable weather station and when to restrict activities.

Note: Refer to the BCWS "Interpretative Bulletin on the Application of the Wildfire Regulation for the Forest Industry" for further guidance to the above, including a defined wildfire prevention and response system (Appendix A) at http://www.bcwildfire.ca/Industry_Stakeholders/Industry/

Fire Roles and Responsibilities continued

- ☒ **Provide 24hr Contact information**
 - Timber Sale License holders must provide an official with a 24 hour a day contact telephone number if the person proposes to carry out an industrial activity on or after March 1 and before November 1 of that year.
- ☒ **Provide copies of your training records as required.**
- ☒ **Ensure employees are trained and aware of all fire emergency responsibilities.**
- ☒ **Complete environmental Emergency Response Plan (eERP) with worksite details and company contact information.**
- ☒ **List the minimum fire equipment that will be maintained on site for “Industrial” and “High Risk Industrial” activities during Danger Classes III, IV, and V (i.e., water tank(s), pump(s) hoses, accessories etc.):**

— One hand tool per worker, one piss can per 3 workers or each machine will have a piss can and fire tool, water pump and 1,500 feet of hose

During Operations

- ☒ **Ensure employees are aware of all fire preparedness responsibilities and trained** as to their fire duties in accordance with WorkSafeBC requirements.
- ☒ **Conduct test(s) and periodic drill(s) of fire preparedness and response.** Tests are to be documented on the BCTS Environmental Emergency Response Test/Drill Report Form CHK-010, records maintained on site and copies of results forwarded to a BCTS representative. Results of drills may be documented on the CHK-010 and maintained on site.
- ☒ **Regularly monitor the appropriate fire weather index information** using your representative weather station and determine the appropriate Fire Danger Class for the area. For Danger Class Reports go to; http://bcwildfire.ca/Weather/Maps/danger_rating.htm
- ☒ **Restrict activities during Fire Danger Class III, IV, or V situations.** Implement fire watch, patrol, early shift, and cease activity, as required (see Schedule 3 of the Wildfire Regulation). Monitor activities and changing site/weather conditions. Do not operate solely by the Schedule 3 of the Wildfire Regulation.
- ☒ **Ensure a copy of the environmental Emergency Response Plan (eERP) is onsite.**
- ☒ **Conduct regular fire suppression equipment inspections and maintenance.**
- ☒ **Take action on a forest fire that is within 1 km of the site of the industrial activity.**
- ☒ **Complete Hazard Assessments and Abatement** at prescribed intervals in accordance with the Wildfire Regulation;
 - Keep all debris piles clean, obtain a Burn Registration Number (BRN) by calling 1-888-797-1717, complete hazard abatement and follow requirements including monitoring of burning activities
 - For smoke management / venting indices call the Provincial Venting Index Hotline 1-888-281-2992 or visit the BC Environment Venting Index website;
<http://www.env.gov.bc.ca/epd/epdpa/venting/venting.html>
 - Extinguish and inspect debris piles by the date specified according to the BRN. Apply to extend the BRN if additional time is required to extinguish burned debris piles.

Part D *Core Information*

SPILL PREPAREDNESS AND RESPONSE

Initial Spill Response Activity

1. Discovery and Assessment

- ☒ Follow safety procedures and put on appropriate personal protective equipment prior to initiating response plan.
- ☒ If Safe, **STOP THE PRODUCT FLOW!** Halt activities that are causing the spill (e.g. Close valves; elevate leaking hoses, shut off pumps, etc.). **Minimize Impact of Spill.**
- ☒ Prior to taking action complete an incident assessment (spill identification /volume, assess potential safety, and environmental issues).
- ☒ **If you feel that the spill is beyond your level of training and experience to handle, seek assistance from a spill response specialist.**

2. Notification and Documentation

- ☒ Report spills in accordance with spill reporting criteria listed in Table 1 below.

3. Containment and Recovery.

- ☒ Take action within your ability using resources (hand tools, heavy equipment and spill response equipment) at hand to minimize the spread and impact of the spill until additional resources and expertise arrive.
- ☒ **Due to the hazardous nature of gasoline, volatile gases should be allowed to dissipate before attempts are made to contain or mop up a gasoline spill.**

Spills to Land

- ☒ Determine extent of spill. Contain or redirect spills away from watercourses.
- ☒ Mark the perimeter of the spill, dig recovery ditches around the perimeter and recovery pits (sumps) within the spill area.
- ☒ Monitor ditches and recovery pits to ensure the collection system is effective.
- ☒ Recover the product from the containment area, treat or dispose of appropriately.

Spill to Water

- ☒ In a ditch or stream, contain the spill using whatever surface water containment system possible.
- ☒ Divert and corral the spilled product to a spill containment system using absorbent booms or other methods.
- ☒ Continue to sweep and corral the spilled product for recovery.

For Spills less than 25 litres

- ☒ Soak up all free products with absorbent pads, booms, and other materials.
- ☒ Place used absorbent materials in a suitable container (i.e. heavy-duty plastic bag) for disposal or recycling. Mix stained soil with loose absorbents or commercial bioremediation agents.

4. Follow-up, Disposal and Site Restoration

- ☒ Ensure spills have been documented and reported to agencies and BCTS as required.
- ☒ Complete clean-up and required mitigation actions. If required, contact a spill response specialist for assistance.
- ☒ **Complete an Incident Report Form (CHK-009 or equivalent) and submit to BCTS.**

Spill Roles and Responsibilities

- ✓ **Assess risk for potential spills** identify additional preventative and control measures
- ✓ **Ensure all workers understand the environmental emergency response plan** and it is available on site at all times.
- ✓ **Ensure all workers are familiar with potential spill sites, spill kit locations and spill kit requirements.**
- ✓ **Ensure workers are trained/aware** in WHMIS, TDG and Spill response
- ✓ Have available on site appropriate MSDS.
- ✓ **Conduct test(s) and periodic drill(s) of spill preparedness and response.** Tests are to be documented on the BCTS Environmental Emergency Response Test/Drill Report Form CHK-010, records maintained on site and copies of results forwarded to a BCTS representative. Results of drills may be documented on the CHK-010 and maintained on site.
- ✓ **Complete spill kits inspections and maintain spill kits** as necessary
 - For Equipment spill kit content requirements see Fuel Handling Environmental Field Procedure EFP-06.
- ✓ **Respond to all spills** in accordance with the emergency response plan.
 - If you are responsible for a spill of hazardous material, you are then responsible to take appropriate actions to minimize environmental impact.
- ✓ **Report all reportable spills** to the appropriate agencies and to BCTS.

Spill Reporting Criteria (If in Doubt Report the Spill)

- ✓ All spills that are equal to or greater than the EMBC reportable level must be reported to EMBC as soon as possible and within 24hrs.
- ✓ Any spills of deleterious substance to a watercourse must be reported to EMBC as soon as possible and within 24hrs.
- ✓ All spills that are equal to or greater than the BCTS reportable level must be reported to BCTS contact as soon as possible and within 24 hrs.

Table 1: Reportable Levels of Hazardous Materials Spills

Hazardous Material	EMBC Reportable Level ⁽¹⁾	BCTS Reportable Level ⁽²⁾
Antifreeze	5 litres	5 litres
Diesel fuel	100 litres	25 litres
Gasoline (auto & saw)	100 litres	25 litres
Greases	100 litres	25 litres
Hydraulic Oil	100 litres	25 litres
Lubricating Oils	100 litres	25 litres
Methyl Hydrate	5 litres	5 litres
Paints & Paint Thinners	100 litres	25 litres
Solvents	100 litres	25 litres
Pesticides	1 kilogram or 1 litre	1 kilogram or 1 litre
Explosives	Any	Any

(1) as required by the BC Spill Reporting Regulation

(2) or a spill of ANY quantity that enters a surface water body (e.g.: running ditch, stream, lake)

Part E *Core Information*

LANDSLIDE & EROSION EVENT RESPONSE

Initial Response Activity

1. **Evaluate.** Follow applicable safety procedures and notify supervisor and other workers. If safe to do so, assess situation to determine if activities must be shutdown.
2. **Immediate Remedial Action.** Take steps to control further environmental impacts.
3. **Notification.** Report the erosion event to the BCTS contact within 24 hours or as soon as practical. (Refer to Reporting Criteria). It is also the LPC's responsibility to notify applicable regulatory agencies of a reportable slide (i.e. informing DFO that a slide has entered a fish-bearing stream) and to notify WorkSafeBC if the slide event relates to a safety incident.
4. **Before Leaving the Site.** Supervisors must account for all workers before leaving the site. If a shutdown is required, park all equipment in an environmentally safe location (i.e. avoid riparian management areas, steep side slopes, steep road sections, areas with excessive soil moisture, areas within reach of standing timber, etc.).
5. **If Environmental Damage Has Occurred.** The BCTS contact must review the situation with the appropriate personnel.
6. **Complete an Incident Report Form (CHK-009 or equivalent) and submit to BCTS.**

Landslide & Erosion Roles and Responsibilities

- ☒ **Verify** that operations are conducted in a manner that minimizes the risk of a landslide and major erosion event occurring.
- ☒ **Ensure all workers understand and are trained** in response procedures and the environmental emergency response plan is available on site at all times.
- ☒ **Supervisor** to ensure all employees are familiar with risk areas.
- ☒ **Conduct test(s) and periodic drill(s) of Landslide/Erosion Emergency Response.** Tests are to be documented on the BCTS Environmental Emergency Response Test/Drill Report Form CHK-010, records maintained on site and copies of results forwarded to a BCTS representative. Results of drills may be documented on the CHK-010 and maintained on site.
- ☒ **Assess** landslides and erosion events, determine reporting requirements, and report to BCTS contact immediately where applicable.
- ☒ **Respond to erosion events** in accordance with this emergency response plan.

Landslide/ Erosion Event Reporting Criteria

Landslides and major erosion events must be reported to BCTS in ANY of the following circumstances:

- Loss or imminent loss of life or property,
- Significant environmental damage,
- Situations which potentially create loss of provincial revenue or funds,
- Abnormal movement has occurred or is actively occurring at a site,
- Abnormal sedimentation,
- A volume of greater than 250 m³ has moved or is imminent danger of movement,
- A land area greater than 0.25 hectares is disturbed,
- A road or structure is damage and requires structural repairs.

FIRE RESPONSE EQUIPMENT & PERSONNEL

List minimum fire equipment (quantity and location) that will be maintained on site for the following Danger Classes, and the equipment locations:

Danger Classes I & II:

One hand tool (shovel/pulaski) per workers, one piss can per 3 workers, water pump and 1,500 feet of hose.

Danger Classes III, IV and V:

One hand tool (shovel/pulaski) per workers, one piss can per 3 workers or each machine will have a piss can and a fire tool, water pump and 1,500 feet of hose.

List personnel certified to the S-100 Fire Suppression standard that will be available for Fire Control:

s.22

Laren Saindon

Dave Rollins

SPILL RESPONSE EQUIPMENT *(list the number and locations of spill kits)*

☐ N/A: No spill response equipment required

Or, List equipment:

AS PER ENVIRONMENTAL FIELD PROCEDURE EFP 06 FUEL HANDLING TABLE 7

Completed By: Dave Rollins Date: January 4, 2020

Date: Dec 1, 2019

Contract/License #: A79515

LPC Training Summary

Workers and Supervisors (Names)	WHMIS (Date)	Road Construction Initiated Slide Awareness (Date)	S-100 or S- 100A Training (Date)	BCTS LPC EMS/SFM Awareness Training Certification (Date)	BCTS EMS Tailgate Training Trainer: <u>Laren S</u> (Date)	Transportation of Dangerous Goods (Date)	SFM Awareness (Dates)				
							SFI Client General Awareness	Species at Risk	Invasive Plants	Migratory Birds	Other
s.22	4/7/2018	N/A	4/7/2018		04/06/2018	n/a	04/2018				
Laren M Saindon	4/7/2018		04/2019	06/29/2017	n/a						
s.22	04/2019	N/A	04/2019		04/06/2018	03/2016	04/2018				
	4/8/2018	04/09/2018	04/2019								
	4/8/2018	11/4/2018	04/2019		04/06/2018	01/2020	11/04/2018				
	4/8/2018	N/A	4/8/2018								
	4/8/2018	N/A	4/8/2018		04/06/2018	01/30/2018					
		N/A	4/8/2018								
	04/09/2018	N/A	4/8/2018		04/06/2018		04/2018				
	04/2019	N/A	04/2019		04/06/2018						
Dave Rollins	04/2019	04/09/2018	04/2019	19/6/2017	N/A						
s.22	4/9/2018	N/A	4/9/2018								
	04/09/2018	N/A	04/09/2018		04/06/2018						

Workers and Supervisors (Names)	WHMIS (Date)	Road Construction Initiated Slide Awareness	S-100 or S- 100A Training (Date)	BCTS LPC EMS/SFM Awareness Training Certification	BCTS EMS Tailgate Training Trainer:_____	Transportation of Dangerous Goods (Date)	SFM Awareness (Dates)				
s.22	04/2019	N/A	04/2019	08/2017		02/07/2018					
	03/2016	N/A	03/2016		03/2016		03/2016				
	03/2014	N/A	04/2019		01/2020						
	4/12/2018	N/A	4/12/2018		04/06/2018						
	4/9/2018	N/A	4/9/2018								
Derek Saindon	04/9/2018	N/A	4/9/2018		04/06/2018						
s.22	4/12/2018	N/A	4/12/2018								
	04/12/2018	N/A	4/12/2018		04/12/2018						
	04/2019	N/A	04/2019		04/2019						
	01/2019	N/A	01/2019		01/2020		01/2020	01/2020	01/2020	01/2020	

WHMIS = Workplace Hazardous Materials Information System

Letter of Authorization

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: January 6, 2020 9:58:57 AM PST
Attachments: SKM_C25820010609280.pdf

Allan,
Please find attached.
Dave



LETTER OF AUTHORIZATION

1. Licensee Name and Address:

Black Mount Logging Inc.

2021 Paco Road, Squamish, BC, V8B 0J6

Phone: 604-898-5415

Fax: 604-898-5423

Email: lsaindon@btheli.com

Name of Authorized Agent	Purpose of Appointment (Sign / Submit / Enquire)
Dave Rollins, RPF, P.Eng	Sign/Submit/Enquire
Derek Saindon	Sign/Submit/Enquire

3. Term of Appointment: (when will appointment expire)
Decebmer 31, 2020

Signed by:



Date: January 4, 2020

(person who has signing authority for the company)

Printed Name: Laren Saindon

Title: Logging Manager

Clack Creek

From: Dave Rollins <drollins@bmlogging.com>
To: Tom.Johnson@gov.bc.ca, Johnson, Tom E FLNR:EX <Tom.Johnson@gov.bc.ca>
Cc: Allan FLNR:EX Knapp <Allan.Knapp@gov.bc.ca>, Laren Saindon <lsaindon@btheli.com>, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: January 7, 2020 4:48:35 PM PST

Hey Tom,

Happy New Year. As per our discussion before Christmas. This is just a heads up that we plan to go to Clack Creek on Friday with right of way fallers.

We just couldn't make it work between Christmas and New Years with the weather challenges in potlatch.

Laren and myself will be on-site to prework the fallers and post signs etc and perhaps talk to concerned public.

I'll keep you posted.

Dave
250-202-7848.
Sent from my iPhone

Fwd: Clack Creek Shape Files

From: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
To: Dave Rollins <drollins@bmlogging.com>
Cc: Amato, Gino FLNR:EX <Gino.Amato@gov.bc.ca>, Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>
Sent: January 9, 2020 2:25:10 PM PST
Attachments: A93884_TAUP.sbx, A93884_TAUP.prj, A93884_TAUP.shp, A93884_TAUP.shx, A93884_TAUP.sbn, ATT00008.htm, ATT00005.htm, ATT00006.htm, ATT00007.htm, A93884_TAUP.cpg, A93884_TAUP.dbf, ATT00004.htm, ATT00003.htm, image001.png, ATT00002.htm, ATT00001.htm

Fyi

Sent from my iPad

Begin forwarded message:

From: "Furlow, Chinelo N FLNR:EX" <Chinelo.Furlow@gov.bc.ca>
Date: January 9, 2020 at 11:08:51 AM PST
To: "Knapp, Allan FLNR:EX" <Allan.Knapp@gov.bc.ca>
Subject: RE: Clack Creek Shape Files

FYI...

```
PROJCS["NAD_1983_BC_Environment_Albers",GEOGCS["GCS_North_American_1983",DATUM["D_North_America  
n_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.01745329  
25199433]],PROJECTION["Albers"],PARAMETER["False_Easting",1000000.0],PARAMETER["False_Northing",0.0],P  
ARAMETER["Central_Meridian",-  
126.0],PARAMETER["Standard_Parallel_1",50.0],PARAMETER["Standard_Parallel_2",58.5],PARAMETER["Latitude_  
Of_Origin",45.0],UNIT["Meter",1.0]]
```

UTF-8



Chinelo Furlow

GIS Analyst

BC Timber Sales | Chinook Business Area

Ministry of Forests, Lands, Natural Resource Operations
and Rural Development

P. 604.398.5921 | 1610 Mount Seymour Road, North Vancouver, BC V7G 2R9

[GIS Requests](#)

From: Dave Rollins <drollins@bmlogging.com>

Date: January 8, 2020 at 10:19:58 AM PST

Allan,

Can we get the shapefiles for the TSL in Clack Creek so I can load them on my Trimble? I just want to be prepared if there has been some vandalism, that we have the capacity to re-establish the lines in the field.

Thanks

Dave

250-202-7848

Re: Clack Creek Shape Files

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Amato, Gino FLNR:EX <Gino.Amato@gov.bc.ca>, Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>
Sent: January 9, 2020 4:36:51 PM PST

Hey Allan,
I believe those are only the TAUP shapes. Not the actually legal harvest boundaries and associated WTRA's.
Dave

Sent from my iPhone

On Jan 9, 2020, at 2:25 PM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Fyi

Sent from my iPad

Begin forwarded message:

From: "Furlow, Chinelo N FLNR:EX"
<Chinelo.Furlow@gov.bc.ca<mailto:Chinelo.Furlow@gov.bc.ca>>
Date: January 9, 2020 at 11:08:51 AM PST
To: "Knapp, Allan FLNR:EX" <Allan.Knapp@gov.bc.ca<mailto:Allan.Knapp@gov.bc.ca>>
Subject: RE: Clack Creek Shape Files

FYI...

<image001.png>

From: Dave Rollins <drollins@bmlogging.com>
Date: January 8, 2020 at 10:19:58 AM PST

Allan,

Can we get the shapefiles for the TSL in Clack Creek so I can load them on my Trimble? I just want to be prepared if there has been some vandalism, that we have the capacity to re-establish the lines in the field.

Thanks

Dave

250-202-7848

<A93884_TAUP.cpg>

<A93884_TAUP.dbf>

<A93884_TAUP.prj>

<A93884_TAUP.sbn>

<A93884_TAUP.sbx>

<A93884_TAUP.shp>

<A93884_TAUP.shx>

Re: Clack inquiry

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: January 21, 2020 3:57:38 PM PST

Hey Allan,

Currently in limbo waiting. Hope to get over soon once more snow melts to better identify the best sources.
Sent from my iPhone

On Jan 21, 2020, at 9:04 AM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Hey Dave,

Any idea on when road-building would commence? Were you asking about the pits because you plan to start up soon, or just to plan ahead once you have an injunction in place. (Or do you already have an injunction in place?)

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

Re: Looks like we are winning the poll

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: January 22, 2020 8:43:49 AM PST

All those that care. Sent it to two FB pages this morning.
North and South VI Communities United (loonies for loggers)
And

Logging the Legislation
Should get a couple votes.

Hi I work for Black Mount Logging in Squamish and we are currently out of work as well due to an environmental protest in Robert Creek.

<https://www.coastreporter.net/news/local-news/update-logging-company-seeks-injunction-against-elf-1.24056821>

There is currently a poll on the coast reporter website about the timber sale being protested (Clack Creek). My employer made a significant donation at Christmas to loonie for loggers and I would appreciate any help in making a clear statement that this sale should be logged. The poll will have no influence on the pending injunction. But any support of loggers on the coast would be appreciated.

<https://www.coastreporter.net/opinion/poll-of-the-week>

We have already gained 400 votes since last night.

Here is a fact sheet for your reference.

<https://news.gov.bc.ca/factsheets/mount-elphinstone-and-clack-creek-resource-management>

Thanks you.

Sent from my iPhone

On Jan 22, 2020, at 8:39 AM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Haha, are forwarding this along to all your crews / contractors too?

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

From: Dave Rollins <drollins@bmlogging.com>

Sent: January 22, 2020 8:28 AM

To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Cc: Ciarniello, Jocelyn FLNR:EX <Jocelyn.Ciarniello@gov.bc.ca>; Johnson, Tom E FLNR:EX <Tom.Johnson@gov.bc.ca>

Subject: Looks like we are winning the poll

<https://www.coastreporter.net/opinion/poll-of-the-week>

Sent from my iPhone

RE: Clack Creek

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Sent: January 23, 2020 10:31:35 AM PST
Attachments: A93884_Gravel_Rock_Sources.kmz

Allan,

I checked the status of the rock pit at approximately 0+642 on the "Pit Road". It was previously held under R20994 but has been subsequently retired in November of 2017. We will need to submit a Road Permit amendment to R22327. As we are just reactivating a non-status road, what information do you require from us to amend the RP? It also appears that Sechelt Roberts Forest Service Road 7575 Br 02 is only approved under Road Use Permit to 7.2 km that appears shy of the junction with the pit road on the exhibit A or maybe it's just an error in the GIS exercise, please have a look.

Access to the two sources on Branch 21 is under currently approved under RUP19-01-7575, however according to Section 1.26 of the RUP Engineering staff must approve pits or quarries. Are we able to expand these existing sources to a maximum of 37.5 m from centerline and lengthen as required. Or does the Engineering staff have formal protocols for the expansion of the existing sources.?

The pit on Sechelt Roberts Branch 16 at approximately 0+660 is a potential source, so we would like to amend the RUP to include this section of road too.

I understand the engineering staff have said we would have hard luck with the 2 pits we are identifying past C46N. But we would like to extend the RUA Roberts Flume Forest Service Road 8546 Br 01 to its terminus at the two sources, this would allow us to at least strip some of the area to better assess their potential.

The strip pit by the TSL is a good close haul distance for additional material for a base on the geotextile. We could expand this while providing sufficient drainage so that no siltation gets into the creek where the bridge. I guess this is another one to discuss with the Engineering Staff for expansion.

Please let us know, what you require from us for extending/amending the existing RUP and Road Permits. (Email, letter or line work etc.). We would like to have our ducks in a row so when we are able to start there is not a hold up on getting approvals for the material required for road construction. Perhaps it would be best we conduct an on-site with yourself and a member of the engineering staff in the next week to hammer all these options out. Let me know about your availability.

Thanks

Dave

-----Original Message-----

From: Knapp, Allan FLNR:EX [mailto:Allan.Knapp@gov.bc.ca]
Sent: Tuesday, January 14, 2020 12:24 PM
To: Dave Rollins <drollins@bmlogging.com>
Cc: Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>
Subject: RE: Clack Creek

Hello Dave,

Yes Laren mentioned the additional pit locations and the use of Geo-textile throughout the road-lengths, but using finer coarse materials for road-sections outside the RMAs where it would be dry, and using rock or larger coarse materials within the RMA.

If finer coarse materials are used, BCTS would want to see that it was geo-textiled and capped/surfaced with rock, and that RMAs would have rock and larger coarse materials as Laren mentioned over the phone.

The 'non-status' pit (aka rotten rock pit) and 2 'Branch 21' pits are likely your best bets for good road material. For the non-status road, it may still have an active RP, so you could make an arrangement with that holder, but if there is no holder then we could look into a RP amendment.

The 'stripped pit' by the TSL would need to have sufficient drainage so that nothing gets into the creek where the bridge is.

The engineering staff have said you would have hard luck with the 2 pits you are identifying past C46N. They looked into it before.

That massive pull-out on Robert's Flume FSR is seen as fine material, so geotextile and rock capping would be needed.

Thank you,

Allan Knapp, RPF
Forest Technologist - BCTS - TCH
Regional Operations Division - Coast Area Ministry of Forests Lands and Natural Resource Operations
7077 Duncan St, Powell River, BC, V8A 1W1 Office 604-485-0735 & Cell 604-413-0653

-----Original Message-----

From: Dave Rollins <drollins@bmlogging.com>
Sent: January 14, 2020 11:03 AM
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Subject: RE: Clack Creek

Allan,

I understand you and Laren have been discussing additional possible pit locations for the Clack Sale, and our requirement for additional sources for both rock and pit run material. I have attached a copy of some Google Earth locations, identified originally by BCTS and new potential locations by BML. Have a look and let us know what you or the appropriate District Engineering Officer think in regards to the proposed locations. I understand the FSR roads would have to go through District Engineering staff and the one Non-status road would have to go through BCTS.

Please give me a call to discuss. I did notice that BML had applied in December for the RUP for road section accessing the TSL and the originally proposed pit locations (as per the RUP application provided). However, the District only provided RUP approval to access the sale. Not a great concern presently, we can sort that all out with the District once we have solidified our overlanding material sources.

Thanks

Dave Rollins, RPF, P.Eng
Operations Engineer

Black Mount Logging Inc.

Cell: 250-202-7848

-----Original Message-----

From: Laren Saindon

Sent: Monday, January 13, 2020 11:35 AM

To: Allan FLNR:EX Knapp <Allan.Knapp@gov.bc.ca>

Cc: Dave Rollins <drollins@bmlogging.com>

Subject: Clack Creek

Hi Allan, can you give me a shout to discuss potential pit locations for the Clack creek TSL

Sent from my iPhone

RE: Clack injunction granted

From: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>
To: Laren Saindon <lsaindon@btheli.com>, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>, Dave Rollins <drollins@bmlogging.com>
Sent: January 29, 2020 1:10:26 PM PST
Attachments: image001.jpg

Thanks and congrats, Laren.

Please ensure to keep in close contact with Allan Knapp during operations.

Warm regards,

Stacey

Stacey Gould, MScF, RPF

Timber Sales Manager

BC Timber Sales - Chinook Business Area

Ministry of Forests, Lands, Natural Resource Operations, and Rural Development

Office: 778.704.7097 | Fax: 604.702.5711 | [BC Timber Sales Website](#)

From: Laren Saindon <lsaindon@btheli.com>

Sent: January 29, 2020 11:17 AM

To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>; Dave Rollins <drollins@bmlogging.com>

Cc: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>

Subject: RE: Clack injunction granted

Hello, Stacy and Allan, please see attached the injunction orders. We have an RCMP contact and will be commencing operations hopefully next week. We will try to keep things as civil as possible on our part throughout this ordeal.

Please let me know if you have any other questions.

Laren Saindon

Logging Manager



Mailing Address: 2021 Paco Road

Squamish, BC V8B 0J6

Ph: 604-898-5415

Cell: 604-892-7841

E: lsaindon@btheli.com

From: Knapp, Allan FLNR:EX [<mailto:Allan.Knapp@gov.bc.ca>]

Sent: Wednesday, January 29, 2020 11:00 AM

To: Laren Saindon <lsaindon@btheli.com>; Dave Rollins <drollins@bmlogging.com>

Subject: Clack injunction granted

Hello Laren & Dave,

Word on the coast-reporter is that you received your injunction.

Would you be willing to share the documentation with BCTS, our Timber Sales Manager is hoping to have it.

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

From: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>

Sent: January 29, 2020 10:29 AM

To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Subject: FW: Clack injunction granted

Allan:

Can you please see if BM would be willing to share the documentation?

Thanks,

Stacey

Stacey Gould, MScF, RPF

Timber Sales Manager
BC Timber Sales - Chinook Business Area
Ministry of Forests, Lands, Natural Resource Operations, and Rural Development
Office: 778.704.7097 | Fax: 604.702.5711 | [BC Timber Sales Website](#)

From: Girard, Amanda FLNR:EX <Amanda.Girard@gov.bc.ca>

Sent: January 29, 2020 9:34 AM

To: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>; Ciarniello, Jocelyn FLNR:EX <Jocelyn.Ciarniello@gov.bc.ca>;
Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>; Amato, Gino FLNR:EX <Gino.Amato@gov.bc.ca>

Cc: Goddard, Jeremy FLNR:EX <Jeremy.Goddard@gov.bc.ca>; Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>; King,
Eliot FLNR:EX <Eliot.King@gov.bc.ca>; Laing, Megan FLNR:EX <Megan.Laing@gov.bc.ca>; Romalis, Mike FLNR:EX
<Mike.Romalis@gov.bc.ca>

Subject: Clack injunction granted

Clack injunction granted

<https://www.coastreporter.net/news/local-news/updated-logging-company-secures-injunction-against-logging-blockade-1.24061026>

Thanks,

Amanda Girard, MRM

Planning Forester

BC Timber Sales

Chinook Business Area

O: 778-572-1800

C: 604-848 -5478

Clack RUPs

From Knapp, Allan FLNR:EX </O=BCGOVT/OU=EXCHANGE ADMINISTRATIVE GROUP
: s.15

To: Dave Rollins <drollins@bmlogging.com>

Sent: January 30, 2020 4:39:49 PM PST

Hey Dave,

One of the comments the District Engineers (not BCTS Engineers) said about RUP applications for the Clack TSL pits is to send FTA Inbox an e-mail about where the pits are (Google-earth Pins and road station estimates), but also a description of how much expansion you intend on (i.e width / length). Chances are they will restrict you to the RoW, but that is to be expected. They may want to see 'stripped pit' that is near the creek in person, but they will let you know for certain after you apply.

Hope that helps.

RP wise, our GIS staff has a backlog, so hopefully we can get that wrapped up soon after they finish their edits/mapping for this amendment.

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

Re: MEDIA REQUEST — Black Mount willing to back out of logging?

From: Laren Saindon <lsaindon@btheli.com>
To: Steven Chua <steven@squamishchief.com>
Cc: stacey.gould@gov.bc.ca, Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>
Sent: January 31, 2020 2:23:40 PM PST

These allegations are untrue.
Laren Saindon

Sent from my iPhone

On Jan 31, 2020, at 1:40 PM, Steven Chua <steven@squamishchief.com> wrote:

Hey Laren,

We received a press release from Elphinstone Logging Focus that Black Mount is willing to back out of logging block A93884 if the province doesn't seek damages in unpaid stumpage. Is this true?

What made Black Mount consider backing out of logging the area?

I've also attached the release here for your reference.

You can reach me at 604-892-91961 ext. 45226.

Hoping to hear from you by 5 p.m. today.

Best,

STEVEN CHUA

REPORTER | THE SQUAMISH CHIEF

Glacier Media Group

.....

38117 Second Ave. | Squamish | B.C. | V8B 0B9

phone: 604.892.9161 ext. 45226

email: steven@squamishchief.com | squamishchief.com

<Press Release Change of Heart.pdf>

RE: MEDIA REQUEST — Black Mount willing to back out of logging?

From Gould, Stacey H FLNR:EX </o=BCGOVT/ou=Exchange Administrative Group
:
To: Laren Saindon <lsaindon@btheli.com>
Sent: January 31, 2020 2:59:37 PM PST

I saw your response. Short and sweet is perfect.

I hope you have a good weekend. -S.

Stacey Gould, MScF, RPF
Timber Sales Manager
BC Timber Sales - Chinook Business Area
Ministry of Forests, Lands, Natural Resource Operations, and Rural Development
Office: 778.704.7097 | Fax: 604.702.5711 | [BC Timber Sales Website](#)

From: Laren Saindon <lsaindon@btheli.com>
Sent: January 31, 2020 2:22 PM
To: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>
Subject: Fwd: MEDIA REQUEST — Black Mount willing to back out of logging?

My initial thoughts are to respond. But I don't think I will.

Sent from my iPhone

Begin forwarded message:

From: Steven Chua <steven@squamishchief.com>
Date: January 31, 2020 at 1:40:54 PM PST
To: Laren Saindon <lsaindon@btheli.com>
Subject: MEDIA REQUEST — Black Mount willing to back out of logging?

Hey Laren,

We received a press release from Elphinstone Logging Focus that Black Mount is willing to back out of logging block A93884 if the province doesn't seek damages in unpaid stumpage.

Is this true?

What made Black Mount consider backing out of logging the area?

I've also attached the release here for your reference.

You can reach me at 604-892-91961 ext. 45226.

Hoping to hear from you by 5 p.m. today.

Best,

STEVEN CHUA
REPORTER | THE SQUAMISH CHIEF
Glacier Media Group

.....
38117 Second Ave. | Squamish | B.C. | V8B 0B9

phone: 604.892.9161 ext. 45226

email: steven@squamishchief.com | squamishchief.com

Re: Black Mount's position on pulling out

From: Stacey.Gould@gov.bc.ca, Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>
To: Laren Saindon <lsaindon@btheli.com>
Cc: Derek Saindon <ops@btheli.com>, Dave Rollins <drollins@bmlogging.com>, Jennell Saindon <jjs@btheli.com>, XT:Andersen, Ron FLNR:IN <randersen@coll.bc.ca>
Sent: February 1, 2020 9:49:56 AM PST

Thanks for sharing. Another tactic...

I had to have tech support change my work landline voicemail so that people can no longer leave messages. I was being inundated with calls from them. I am not engaging.

Please continue to use my cell or email for communications. I will call next week so see how things are going.

Stacey Gould, MScF, RPF
Timber Sales Manager
BC Timber Sales - Chinook Business Area
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Office: 778.704.7097

Sent from my iPhone.

On Feb 1, 2020, at 8:55 AM, Laren Saindon <lsaindon@btheli.com> wrote:

FYI.
There is no "Phil"

Sent from my iPhone

Begin forwarded message:

From: Elphinstone Logging Focus <loggingfocus@gmail.com>
Date: January 31, 2020 at 11:10:21 PM PST
To: Laren Saindon <lsaindon@btheli.com>
Subject: Black Mount's position on pulling out

Hi Laren,
One of our supporters ^{s.22} called your office yesterday and spoke to Phil Saindon -^{s.22}
He clearly told ^{s.22} that BM Logging would prefer to surrender or get out of the Clack Creek cutblock if they didn't face a penalty like having to pay stumpage.

But, today Steven from the Squamish Chief called me to get an update from the conservation side. He went on to say that he talked to Phil and asked if this was true that BM would be open to backing out if no penalties were applied and he replied absolutely No.

I believe you told me the same thing when we had a telephone conversation back in September.

We need to get a clear statement from your company. Why? Because after the conversation between Phil and s.22 we reached out to some deep pocket supporters and they said they would consider putting in some seed money to cover your expenses and any business losses if BM agreed to pull out. Then, government can be lobbied to drop the stumpage. If they are adamant against dropping stumpage, then we could ramp up the fundraising effort.

Laren, will you text me with a clear answer on BM's position regarding future of this operation?

It's really strange to have 2 very conflicting positions from your office. I hope your not agreeing internally to tell the conservationists one thing and then the press or government a completely different story.

Text me with a clear position so we are certain if we should begin an aggressive fundraising goal to find a practical solution.

Talk to you soon,

s.22

Fwd: logging tape down

From: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>, Dave Rollins <drollins@bmlogging.com>, Johnson, Tom E FLNR:EX <Tom.Johnson@gov.bc.ca>, Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>
Sent: February 2, 2020 5:29:43 PM PST

Allan:

This person is claiming to have removed the flagging. Let's assess tomorrow and think strategically about rehanging.

I will be in touch.

Thanks,

Stacey

Stacey Gould, MScF, RPF
Timber Sales Manager
BC Timber Sales - Chinook Business Area
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Office: 778.704.7097
Sent from my iPhone.

Begin forwarded message:

From: s.22

Date: February 2, 2020 at 3:43:47 PM PST

To: "Gould, Stacey H FLNR:EX" <Stacey.Gould@gov.bc.ca>, "Romalis, Mike FLNR:EX" <Mike.Romalis@gov.bc.ca>

Subject: logging tape down

The mushroom picking community were not advised of logging in the Clack Creek Forest area or anywhere else for that matter across Elphinstone. We make up about 1/3 of our income over the picking season from hard work harvesting wild mushroom and selling to a buyer in Roberts creek who then sells into Vancouver.

We're not at all happy with seeing yet another prime patch destroyed from logging. I picked a very large Cauliflower mushroom in the falling boundary this past August that paid well. We have a reach a tipping point in loosing areas.

Four of us went out and cleared the area of tape and what look like surveyed corners. We will be back again. Better inform the logging company so they don't go out of bounds.

Sorry - don't mean to do this but we also have families to feed. Mushroom harvesting is sustainable but needs stable conditions.

Re: A93884 Cruise based reporting

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>
Sent: February 3, 2020 9:17:30 AM PST

Hi Allan we estimate about 2% of the area has been fell.
Felling to recommence tomorrow.

Sent from my iPhone

On Feb 3, 2020, at 9:09 AM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Hello Folks,

Cruise based-reporting is every 1st Wednesday of each month.

I know it is still quite early in the operations, and there has been days with significant rain this month, but do you guys have an estimate of area felled to date?

Have you been actively felling since the injunction?

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

Water on road

From: Laren Saindon <lsaindon@btheli.com>
To: Allan FLNR:EX Knapp <Allan.Knapp@gov.bc.ca>, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>
Sent: February 3, 2020 10:25:27 AM PST
Attachments: image0.jpeg, image2.jpeg

Hi Allan there is some water on the road that has created a couple trenches at the start of RF030.

As you know we haven't been able to access the site lately.

We can't dig into the road right now as it's frozen. We plan on bringing equipment up later this week and will deal with it.

The water is not running into the mainline.

I will do a self inspection and make note of this as a corrective action.

Laren Saindon



Sent from my iPhone





FW: Guy trying to contact Blackmount

From Knapp, Allan FLNR:EX </O=BCGOVT/OU=EXCHANGE ADMINISTRATIVE GROUP
: s.15

To: Laren Saindon <lsaindon@btheli.com>, Dave Rollins <drollins@bmlogging.com>
Sent: February 3, 2020 11:08:25 AM PST

Hey folks,

Heads up about the contact mentioned below.

Thank you,

Allan Knapp, RPF

Forest Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

From: Girard, Amanda FLNR:EX <Amanda.Girard@gov.bc.ca>

Sent: February 3, 2020 11:06 AM

To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Cc: Gould, Stacey H FLNR:EX <Stacey.Gould@gov.bc.ca>

Subject: Guy trying to contact Blackmount

Hi Allan,

I had s.22 contact me, he's associated with ELF and was looking for information regarding A93884. He said he was going to contact Blackmount and wants to do a walk through of the block with them. I wanted to give BML a heads up. s.22 number is s.22

Can you please forward to BML.

Thanks,

Amanda Girard, MRM

Planning Forester

BC Timber Sales

Chinook Business Area

O: 778-572-1800

C: 604-848 -5478

Amphibian survey

From: Dave Rollins <drollins@bmlogging.com>
To: Allan FLNR:EX Knapp <Allan.Knapp@gov.bc.ca>, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Sent: February 3, 2020 1:25:46 PM PST
Attachments: <httpswww.bcbid.gov.bc.caopen.dlldownloadFilesessionID=101417505&charID=41129744&disID=41129700&blobID=285881230&filetype=B.png>

Hi Allan,

Just looking for clarification and confirmation on the survey for tadpoles in creek 1. It states before road crossings are built. Am I correct in interpreting that we are able to cross the stream with a log loader to deck f&b to the side of the right-of-way to facilitate construction prior to the survey. Based on the time of year I would not expect tadpoles to be present, as they generally don't hatch until mid-july to mid-September. We would then get an RPBio to conduct the survey promptly prior to constructing the crossing.
Thanks

Dave

Sent from my iPhone

	<p>particular machine. Contractor is to ensure that all areas of the cutblock are reviewed to ensure that all machines can safely perform identified harvesting or change to an alternate harvesting system.</p> <p>4) The "Wagon Road Trail" is used in the first week of May and July for a bike race. No harvesting will occur during these times and will be cleared to accommodate the bike race.</p>
Felling / Yarding:	<p>Directional felling/yarding as per Riparian Management Strategies (below).</p> <p>Fall and yard away from the "Wagon Road Trail".</p> <p>Hand felling will be required for oversize trees. Yarding is all Hoe Chuck.</p>
Retention:	65 trees have been marked for retention within the windfirming SMZ indicated on the map. A further 31 trees have been marked dispersed retention within the harvest area (note that some retention tree symbols account for 2 trees due to their close proximity to other).
Roads:	Overland construction is required for all roads where feasible. Minimize cut bank depth and ballast and surface roads with rock or gravel. The known pit is 0+620 on Pit Road at 5+287 on the Sechelt Roberts FSR. No borrow pits are allowed within the RMA or any watercourse.
Tailed Frogs:	Conduct amphibian surveys in Stream 1 before road crossings are built. Relocate tadpoles upstream of the construction site. RP Bio is required.
Yellow-listed plant: <i>Rubus Nivalis</i>	Two of seven occurrences of <i>Rubus Nivalis</i> , a yellow-listed plant species, are located within the road right of way and will be impacted by harvesting activities. The other observed occurrences of this plant are external to the harvest area and will be retained as per BC's management protocol.
Water Quality:	There are water licenses starting approx. 2 km downstream of the cutblock. Water quality will be protected by installation of wood culverts/bridges on Stream 1 crossings as per P.Eng Designs.
Terrain/Soils:	Decompact compacted soils as well as return any displaced surface soils, retrievable side cast and berm materials. To minimize disturbance, compaction and rutting during ground based harvesting, it is recommended that ground based harvesting be limited to soil conditions. Alternatively, use of wider tracked machinery, extensive use of punchon and debris mats, and avoidance of wetted areas can help minimize surface disturbance.
Coarse Woody Debris:	A minimum of 4 logs per hectare 5 m in length and 30 cm in diameter at one end must be retained within the harvested portion of the block. There is currently a low amount of moderately well decomposed CWD on site. The general objective with respect to CWD is to ensure that an acceptable level of CWD is left on site following harvesting activities and to provide for sources of long term input to the stream. Strategies to promote the retention of CWD include retaining piles where they do not create fire hazards or prevent achievement of stream targets.
Invasive Plants:	Scotch Broom is present along the edges of RF030. Road construction crews will ensure that gravel pits/ballasting sources are free of invasive plants. Areas of contiguous exposed soil that exceed 0.1 ha in size must have certified seed applied within one year of construction operations to prevent the introduction or spread of prescribed species of Invasive Plants.
Cultural Heritage:	If an unrecorded archaeological site (including CMTs) is found stop any activities that could endanger the site immediately and notify the Contract Manager. Archaeological remains are protected from disturbance (intentional or inadvertent) under the Heritage Conservation Act. The Contract Manager will then notify the appropriate agencies and the Sechelt Band.
Windthrow:	A windfirming treatment is prescribed to maintain stream bank integrity, protect water quality and protect tailed frog habitat. All windthrow treatments will be completed manually (no heli pruning). Treat all trees over 30cm DBH within 20m of the boundary for all sections shown on the attached map. Also treat the 65 trees marked for retention in the 20m SMZ adjacent to the NW boundary. Remove 40%-60% of the canopy of trees marked for retention.

RE: Special plants.

From: Knapp, Allan FLNR:EX </O=BCGOVT/OU=EXCHANGE ADMINISTRATIVE GROUP
s.15>
To: Dave Rollins <drollins@bmlogging.com>
Cc: Ciarniello, Jocelyn FLNR:EX (Jocelyn.Ciarniello@gov.bc.ca)
<Jocelyn.Ciarniello@gov.bc.ca>, Graham, Jeremy D FLNR:EX
<Jeremy.Graham@gov.bc.ca>
Sent: February 4, 2020 4:58:10 PM PST

Hello Dave,

BCTS recommends re-establishing the ribbons as they were originally hung, thus keeping the road location where it originally was.

Also, there could be many more caution-tape patches near the road like that one you filmed.

Thank you,

Allan Knapp, RPF
Operations Technologist – BCTS – TCH
Regional Operations Division – Coast Area
Ministry of Forests Lands and Natural Resource Operations
7077 Duncan St, Powell River, BC, V8A 1W1
Office 604-485-0735 & Cell 604-413-0653

-----Original Message-----

From: Dave Rollins <drollins@bmlogging.com>
Sent: February 4, 2020 4:10 PM
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Subject: Special plants.

I believe this is one of the areas ribboning out the special plants. At a couple points it is less than 10m from centreline. Move the centreline or status quo?

Dave

Re: A93884 3 danger trees

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>
Sent: February 18, 2020 5:46:44 PM PST

Thanks Allen I will mark them tomorrow and take pictures.

Sent from my iPhone

On Feb 18, 2020, at 5:31 PM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Hello Laren, as per our discussion today regarding the 3 danger trees in the C46N block. You are able to take the trees from the cutting authority, but we ask that the stumps are clearly marked.

Sent from my iPhone

Re: A93884 Clack

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>
Sent: March 5, 2020 5:09:54 PM PST
Attachments: image0.jpeg

Hi Allan I got a call from Jeff with a request for tires. See picture below.

I will get some delineators and replace the damaged/ missing ones.

I also have a couple emails I will send you tomorrow one with our area based stumpage calculation for end of month billing. And another with some other little upkeep things. Please let me know if you notice anything else.

Regards

Laren



Sent from my iPhone

On Mar 5, 2020, at 4:31 PM, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca> wrote:

Hello Folks,

I received some comments about roads/machinery from the engineering staff in our office.

They were out on Roberts Flume FSR and noticed that the first bridge had damage to the guard-rails and that the delineators were damaged, with one delineator broken/torn and another was missing. If this is the case, these delineators will need to be replaced.

Also, they came across machinery crossing a bridge with a concrete deck without materials under the tracks to prevent damage to the deck surface. I am told the deck-surface was being chipped and

damaged by the machine, and the operator was informed of the requirements to use materials under track to prevent such damage in the future. Please ensure other operators are also familiar with crossing machinery on concrete decking. (RUP 1.15)

Thank you,

Allan Knapp, RPF

Operations Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653



Clack creek - reporting danger trees etc.

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: March 6, 2020 2:14:23 PM PST
Attachments: image003.jpg, SKM_C25820030614160.pdf

Hi Allan,

Attached are the maps identifying the two areas where trees were fell outside the block and one area where we had to trade a leave tree. Please let me know if you need more info.

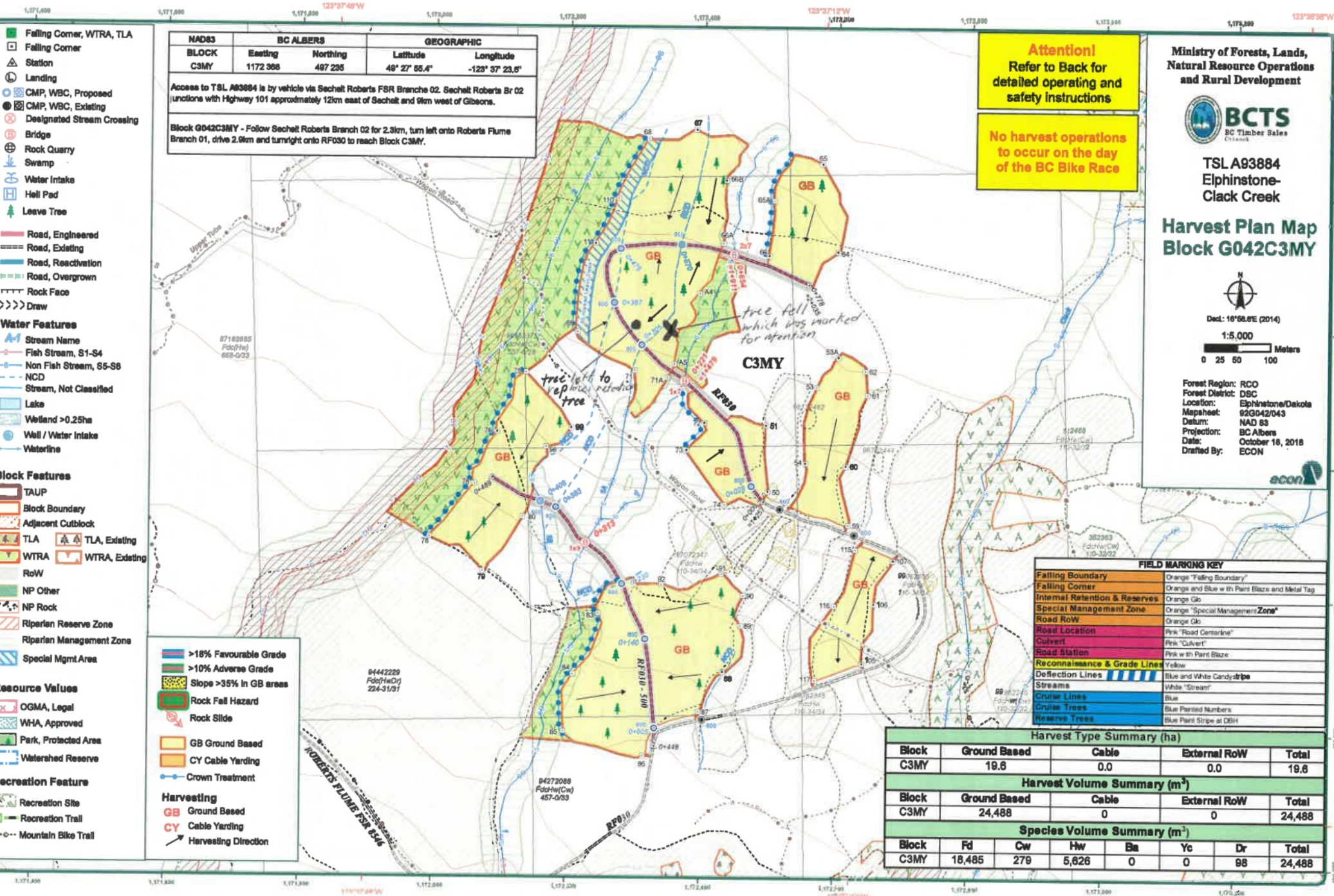
Regards,

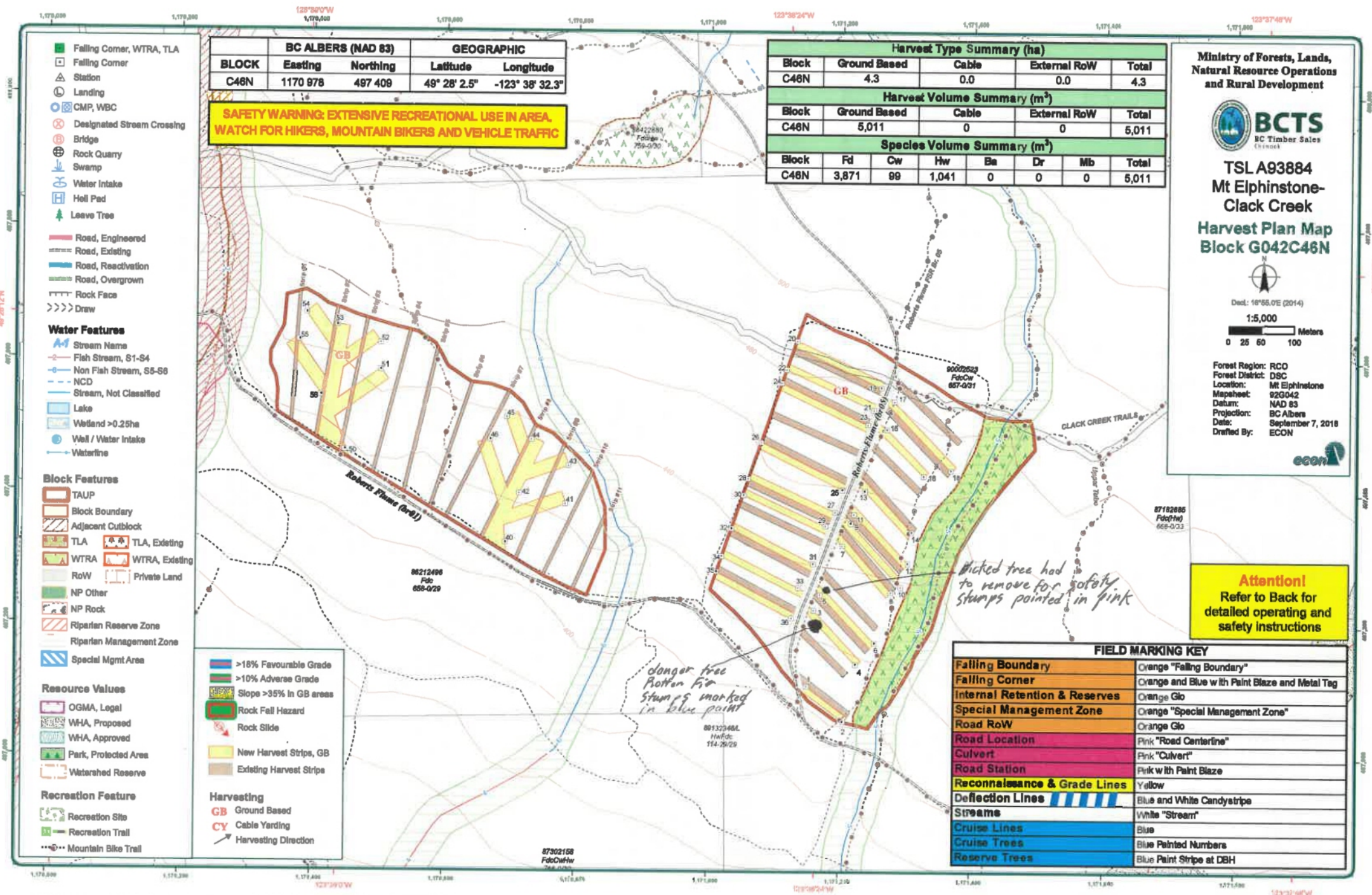
Laren Saindon

Logging Manager



Mailing Address: 2021 Paco Road
Squamish, BC V8B 0J6
Ph: 604-898-5415
Cell: 604-892-7841
E: lsaindon@btheli.com





RE: Clack creek - 93884 - completion report

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>
Sent: March 6, 2020 3:04:47 PM PST
Attachments: image001.jpg

Hi Allan, thank you for the update on the billing. In regards to Bailey bay we will probably pull the hoe out on Tuesday the 9th so if your coworker sees something of note then please pass it on right away. Other than that we will grass seed as normal etc.

From: Knapp, Allan FLNR:EX [<mailto:Allan.Knapp@gov.bc.ca>]

Sent: Friday, March 6, 2020 3:00 PM

To: Laren Saindon <lsaindon@btheli.com>

Subject: RE: Clack creek - 93884 - completion report

Ok, I just finished contacting Coast Billing to make sure there won't be an issue from when we reported that 2% for January's 'falling'. We need to report 'area harvested', which is derived from the estimated volume removed from the TSL.

Not sure if Dave spoke with you, but there was a difference between what BCTS has in 'harvesting area' and what Coast billing was provided. So January's bill was held up until we figured it out, which is where we are at today. From what I am understanding at this time, you won't be billed for January and February, as you don't have any volume to report until it has been removed from the cutting authority. Please keep volume figures in mind for the volume removed in March.

(Side note: in regards to that hoe in Bailey bay, I won't be able to get out there until late March, a coworker will be there and take photos/look around on Monday March 9th. Realistically it comes down to a Licensee having a QP sign-off that the deactivation/rehab went according to plan (post deactivation sign-off), adequate measure were taken (i.e. grass-seeding sections that pose risks) and won't cause sedimentation/mass-wasting events. It will be your call to take the hoe out, otherwise it becomes BCTS directing a TSL holder, which can't happen because it is your worksite.)

Thank you,

Allan Knapp, RPF

Operations Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1

Office 604-485-0735 & Cell 604-413-0653

From: Laren Saindon <lsaindon@btheli.com>

Sent: March 6, 2020 1:53 PM

To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Subject: RE: Clack creek - 93884 - completion report

No volume has left the cutting authority area

From: Knapp, Allan FLNR:EX [<mailto:Allan.Knapp@gov.bc.ca>]

Sent: Friday, March 6, 2020 1:51 PM

To: Laren Saindon <lsaindon@btheli.com>

Subject: RE: Clack creek - 93884 - completion report

Excellent, I do have a request that possibly makes things more complex than they used to be.

The cruise based billing rules apparently changed around a year before I started, and I was told to use the older method of reporting.

Cruised based billing now uses % volume removed from the cutting authority.

Do you know what % of the volume you have removed from the cutting authority so far? (If not then perhaps how many loads removed)

Thank you,

Allan Knapp, RPF

Operations Technologist – BCTS – TCH

Regional Operations Division – Coast Area

Ministry of Forests Lands and Natural Resource Operations

7077 Duncan St, Powell River, BC, V8A 1W1
Office 604-485-0735 & Cell 604-413-0653

From: Laren Saindon <lsaindon@btheli.com>

Sent: March 6, 2020 1:32 PM

To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>

Cc: Dave Rollins <drollins@bmlogging.com>

Subject: Clack creek - 93884 - completion report

Hi Allan.

My estimation is that we had fell 100% of C46N

And approximately 14.6 hectares of harvest area in C3MY.

I also believe there is approximately 1000 meters of oversize left randomly by the buncher so .8 of a hectare.

C46N = 4.3 fell

C3MY = 13.8 fell

This is as of February 29th

Regards,

Laren Saindon

Logging Manager



Mailing Address: 2021 Paco Road
Squamish, BC V8B 0J6
Ph: 604-898-5415
Cell: 604-892-7841
E: lsaindon@btheli.com

LPC

From: Dave Rollins <drollins@bmlogging.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Sent: March 16, 2020 11:21:59 AM PDT
Attachments: Table-008-1A-LPC-Training-Summary 2020_03_16 A93884.pdf

Allan,

I have updated Kevin's information to be current from his January training. We still plan to conduct more WHMIS and S100 training in the next month. To ensure everyone is up to date.

Thanks

Dave

Date: March 16, 2020

Contract/License #: A93884

LPC Training Summary

Workers and Supervisors (Names)	WHMIS (Date)	Road Construction Initiated Slide Awareness (Date)	S-100 or S- 100A Training (Date)	BCTS LPC EMS/SFM Awareness Training Certification (Date)	BCTS EMS Tailgate Training Trainer: <u>Laren S</u> (Date)	Transportation of Dangerous Goods (Date)	SFM Awareness (Dates)				
							SFI Client General Awareness	Species at Risk	Invasive Plants	Migratory Birds	Other
s.22	4/7/2018	N/A	4/7/2018		04/06/2018	n/a	04/2018				
Laren M Saindon	4/7/2018		04/2019	06/29/2017	n/a						
s.22	04/2019	N/A	04/2019		04/06/2018	03/2016	04/2018				
	4/8/2018	04/09/2018	04/2019								
	4/8/2018	11/4/2018	04/2019		04/06/2018	01/2020	11/04/2018				
	4/8/2018	N/A	4/8/2018								
	4/8/2018	N/A	4/8/2018		04/06/2018	01/30/2018					
		N/A	4/8/2018								
	04/09/2018	N/A	4/8/2018		04/06/2018		04/2018				
	04/2019	N/A	04/2019		04/06/2018						
Dave Rollins	04/2019	04/09/2018	04/2019	19/6/2017	N/A						
s.22	4/9/2018	N/A	4/9/2018								
	01/27/2020	N/A	01/27/2020		01/27/2020			01/27/2020			

Workers and Supervisors (Names)	WHMIS (Date)	Road Construction Initiated Slide Awareness	S-100 or S- 100A Training (Date)	BCTS LPC EMS/SFM Awareness Training Certification	BCTS EMS Tailgate Training Trainer:_____	Transportation of Dangerous Goods (Date)	SFM Awareness (Dates)				
s.22	04/2019	N/A	04/2019	08/2017		02/07/2018					
	03/2016	N/A	03/2016		03/2016		03/2016				
	03/2014	N/A	04/2019		01/2020						
	4/12/2018	N/A	4/12/2018		04/06/2018						
	4/9/2018	N/A	4/9/2018								
Derek Saindon	04/9/2018	N/A	4/9/2018		04/06/2018						
s.22	4/12/2018	N/A	4/12/2018								
	04/12/2018	N/A	4/12/2018		04/12/2018						
	04/2019	N/A	04/2019		04/2019						
	01/2019	N/A	01/2019		01/2020		01/2020	01/2020	01/2020	01/2020	

WHMIS = Workplace Hazardous Materials Information System

inspections 93884 & 95362

From: Laren Saindon <lsaindon@btheli.com>
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Dave Rollins <drollins@bmlogging.com>, Roger Watt <rwatt@coll.bc.ca>
Sent: March 18, 2020 4:35:35 PM PDT
Attachments: IMG_0910.jpg, SKM_C25820031816260.pdf, IMG_0919.jpg, IMG_0922.jpg, IMG_0909.jpg, IMG_0918.jpg, image002.jpg

Hello Allan,

Please see my inspection reports for TSL 93884 and 95362. We have two action items in 93884 which Dave Rollins/myself will address when he goes to do his bridge inspections. We also have one actions item in 95362 which I plan on addressing tomorrow.

I have attached the inspections to this email. They will also be in the binders.

To address your email about 93884 I have ensured that all pickups have the appropriate amount of grey spill pads and properly certified fire extinguishers. Every working zone has a sign with contact info and the main BCTS sign is at the entrance of all the work. The upper loop trail has a sign posted on each side of the road. The rock trucks are hauling from the pit at 6km on branch 1 to RF030-500 on RR12 and they have been instructed to pull over for non-industrial traffic. Pictures attached.

New road is looking good, **s.22** is hanging around again..

Please let me know if you see anything else,

Regards,

Laren Saindon

Logging Manager



Mailing Address: 2021 Paco Road
Squamish, BC V8B 0J6
Ph: 604-898-5415
Cell: 604-892-7841
E: lsaindon@btheli.com

**BCTS CLIENT SELF INSPECTION REPORT****BCTS CHK-011**Complete as per the BCTS LPC
Inspection Frequency Identified in
the BCTS / LPC Prewrite

Section A	Business Area: <i>Chinook</i>	Project Number (TSL or Contract): <i>95362</i>	Date of Inspection: <i>March 17th 2020</i>
	Blocks and Roads Inspected: <i>C32T/SROD-057/058/059</i>	General Location (operating area): <i>Gibsons (Elphinstone)</i>	

	Consideration	Status		
		YES	NO	N/A
Section B	1 Has all training been completed? (BCTS Training matrix)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2 Have prework meetings been conducted and documented with all on-site workers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3 Do all workers understand the project plan? (Specific to their roles and responsibilities) ➢ Site plan, licence document, licence schedules and appendices, road permit, road use permit, project map etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4 Are you following the plan and requirements? ➢ EMS/SFM requirements (EFP's, inspections, fuel handling, local operational controls etc.) ➢ Compliance with legislation (FRPA, Wildfire Act, TDG etc.) ➢ Project terms and conditions (contract, license, site plan, permits, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5 Are all applicable documents and records on-site, complete, updated as required and available to workers? ➢ Project plan documents and maps, ERP, prework, inspections, training records, EFP's, incidents etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6 Do all workers understand their roles and responsibilities for environmental Emergency Preparedness and Response? (Fires, Spills and Landslides) ➢ Conducting tests/drills, reporting criteria, following ERP etc. ➢ Maintaining emergency response equipment (spill kits, fire tools, fire suppression system, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7 Have steps been taken to protect resource features and prevent damage to the environment? ➢ Water, soil productivity, wildlife habitat, fuel handling, chemical handling, clean up and disposal of waste etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	8 Have all applicable environmental and safety issues been reported? ➢ Fires, spills, landslides/erosion events, potential legal non-compliances, significant non-conformances (EMS incidents) ➢ Previously unidentified resource features, changes to the project plan, etc. ➢ Safety incidents and hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9 Have you followed up with all action items from previous inspections and pre-works?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10 Are there any considerations for improvements to the Project Plan? ➢ Test and drill results, other improvements to the project plan, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Corrective Actions (include # Identifier)	Actions	By Who	Due Date
Section C	<i>#7 - ditches on OS7</i>	<i>log loader clean ditch</i>	<i>Loren</i>	<i>March 20th</i>

Inspected by (print): *Loren Scimmon*Signature: *[Signature]*

**BCTS CLIENT SELF INSPECTION REPORT****BCTS CHK-011**Complete as per the BCTS LPC
Inspection Frequency identified in
the BCTS / LPC Prewrite

Section A	Business Area: <i>Chinook</i>	Project Number (T&L or Contract): <i>93884</i>	Date of Inspection: <i>March 17th 2020</i>
	Blocks and Roads Inspected: <i>C3MY, RFO30-500/C46N</i>	General Location (operating area): <i>Gibsons (clack creek)</i>	

	Consideration	Status		
		YES	NO	N/A
Section B	1 Has all training been completed? (BCTS Training matrix)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2 Have prework meetings been conducted and documented with all on-site workers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3 Do all workers understand the project plan? (Specific to their roles and responsibilities) ➢ Site plan, licence document, licence schedules and appendices, road permit, road use permit, project map etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4 Are you following the plan and requirements? ➢ EMS/SFM requirements (EFP's, inspections, fuel handling, local operational controls etc.) ➢ Compliance with legislation (FRPA, Wildfire Act, TDG etc.) ➢ Project terms and conditions (contract, license, site plan, permits, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5 Are all applicable documents and records on-site, complete, updated as required and available to workers? ➢ Project plan documents and maps, ERP, prework, inspections, training records, EFP's, incidents etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6 Do all workers understand their roles and responsibilities for environmental Emergency Preparedness and Response? (Fires, Spills and Landslides) ➢ Conducting tests/drills, reporting criteria, following ERP etc. ➢ Maintaining emergency response equipment (spill kits, fire tools, fire suppression system, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7 Have steps been taken to protect resource features and prevent damage to the environment? ➢ Water, soil productivity, wildlife habitat, fuel handling, chemical handling, clean up and disposal of waste etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8 Have all applicable environmental and safety issues been reported? ➢ Fires, spills, landslides/erosion events, potential legal non-compliances, significant non-conformances (EMS incidents) ➢ Previously unidentified resource features, changes to the project plan, etc. ➢ Safety incidents and hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9 Have you followed up with all action items from previous inspections and pre-works?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10 Are there any considerations for improvements to the Project Plan? ➢ Test and drill results, other improvements to the project plan, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Corrective Actions (include # Identifier)	Actions	By Who	Due Date
Section C	<i># 1</i>	<i>Dave Poling to update training</i>	<i>D. Poling</i>	<i>March 25th</i>
	<i># 6</i>	<i>need to complete new ^{drills} drill</i>	<i>D. Poling</i>	<i>March 25th</i>

Inspected by (print): *Lauren Swindon*Signature: *[Signature]*









Untitled.msg

From: 6044130653@msg.telus.com
To: allan.knapp@gov.bc.ca, Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: August 10, 2021 2:19:39 PM PDT
Attachments: IMG_34551.jpg

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Hey Dave

Have you seen any indications that ribbons were tampered with? I assume you are just falling RoW today

Never mind. I just got an update from Stacey and Laren.

Road centre line gone. Appears f/l is missing in a lot of area too

Blazed painted over

How is the weather down there? Were you able to fall trees in clack today?

Fallers got to work late. Standard gathering of our friends. Cops dispersed them.

1/2day of falling eh.

No arrests I take it.

They may just work longer. And get the full day. Wait and see. No detainment of protestors.

Right.

Thanks for the update.

Np

Page 162 of 174

Withheld pursuant to/removal as

s.22

Hey Dave. Just saw the Coast reporter article today. 'Sign warning trees had been spiked'.

Scary stuff, hopefully it is an empty threat.

Well I believe ^{s.22} got an escort to the detachment this morning. And progress on the pit road RP?

Progress at least, we ran into issues of other tenures for that road not having been retired in our systems. We rooted that out and can start the process. Hopefully doesn't take much longer.

The RP is further along. GIS and mapping are nearly done. We hit more snags with old permits.

How is access today? I plan to come in for a water sample.

Not sure. Haven't heard anything so I would assume good. Almost think they gave up.

Have you fallen beyond the RoW yet, Or are you just starting the road building?

FB was working the strips on the weekend.

Right. Laren has questions about that. He is going to call shortly. Are you with him?

You've received a Message from a TELUS phone.

If you don't hear or see the file, [download the Quick Time player](#).



Vous avez reçu un Message d'un téléphone TELUS.

Si vous ne voyez ni n'entendez le fichier, [veuillez télécharger QuickTime](#).



Page 164 of 174

Withheld pursuant to/removal as

s.22

Instruction Sheet - How to use the TSG TCH Wet Weather Shutdown Table

Step 1: Enter Your Worksite Location Details

Step 2: Enter your start date in the first row. (The rest of the dates will auto populate)

Step 3: Enter the shutdown zone for your worksite in the first row. (BCTS will indicate which zone(s) applies at the project prework.

Step 4: Upon arrival to the worksite enter your start of shift temperature (column C) and rainfall (column E). *Most likely the first start of shift recording will be zero because you haven't collected any data.*

Step 4a: Select "Yes" to any applicable *zone modifiers (column J - Y).

Step 5: Check column AL to see if *Shutdown applies.

Step 6: At the end of the day enter your end of shift temperature (column D) and rainfall (column H).

Step 6a: Select "Yes" to any applicable *zone modifiers (column J - Y) if there are changes from the start of shift .

Step 7: Check column AL to see if *Shutdown applies.

Repeat Steps 4 through 7 for subsequent days.

*Refer to the Documents Titled "TSG_TCH_WWSG Field Table" and "TSG_TCH_WWSG Operation Procedures" for further information on Zone modifiers, zone thresholds, shutdown criteria and resumption of work following shutdown considerations.

Work Site:

Shutdown amount

#N/A

#N/A

Shutdown amount

#N/A

#N/A

#N/A

#N/A

Verion#:1.9

Date		Shutdown Zone		Temp Start of Shift	Temp End of Shift	Rainfall Start of Shift (mm)	Rainfall End of Shift (mm)	Snow on Site	Rain on Snow	High Winds >60 kmph	Very Wet >=21 days of precip	Visibly High Stream Flow	Earthquake mag >5.0	24 Hr start-end shift Precip	24 hr end-start shift precip	48 hr precip	72 hr precip	Zone Modifier	Modified Zone	Shut Down Message
Enter project start date only		Enter first line only																		
December 1, 2018														0	0	0	0	0	0	
December 2, 2018	0													0	0	0	0	0	0	
December 3, 2018	0													0	0	0	0	0	0	
December 4, 2018	0													0	0	0	0	0	0	
December 5, 2018	0													0	0	0	0	0	0	
December 6, 2018	0													0	0	0	0	0	0	
December 7, 2018	0													0	0	0	0	0	0	
December 8, 2018	0													0	0	0	0	0	0	
December 9, 2018	0													0	0	0	0	0	0	
December 10, 2018	0													0	0	0	0	0	0	
December 11, 2018	0													0	0	0	0	0	0	
December 12, 2018	0													0	0	0	0	0	0	
December 13, 2018	0													0	0	0	0	0	0	
December 14, 2018	0													0	0	0	0	0	0	
December 15, 2018	0													0	0	0	0	0	0	
December 16, 2018	0													0	0	0	0	0	0	
December 17, 2018	0													0	0	0	0	0	0	
December 18, 2018	0													0	0	0	0	0	0	
December 19, 2018	0													0	0	0	0	0	0	
December 20, 2018	0													0	0	0	0	0	0	
December 21, 2018	0										No			0	0	0	0	0	0	
December 22, 2018	0										No			0	0	0	0	0	0	
December 23, 2018	0										No			0	0	0	0	0	0	
December 24, 2018	0										No			0	0	0	0	0	0	
December 25, 2018	0										No			0	0	0	0	0	0	
December 26, 2018	0										No			0	0	0	0	0	0	
December 27, 2018	0										No			0	0	0	0	0	0	
December 28, 2018	0										No			0	0	0	0	0	0	
December 29, 2018	0										No			0	0	0	0	0	0	
December 30, 2018	0										No			0	0	0	0	0	0	
December 31, 2018	0										No			0	0	0	0	0	0	
January 1, 2019	0										No			0	0	0	0	0	0	
January 2, 2019	0										No			0	0	0	0	0	0	
January 3, 2019	0										No			0	0	0	0	0	0	
January 4, 2019	0										No			0	0	0	0	0	0	
January 5, 2019	0										No			0	0	0	0	0	0	
January 6, 2019	0										No			0	0	0	0	0	0	
January 7, 2019	0										No			0	0	0	0	0	0	
January 8, 2019	0										No			0	0	0	0	0	0	
January 9, 2019	0										No			0	0	0	0	0	0	
January 10, 2019	0										No			0	0	0	0	0	0	
January 11, 2019	0										No			0	0	0	0	0	0	
January 12, 2019	0										No			0	0	0	0	0	0	
January 13, 2019	0										No			0	0	0	0	0	0	
January 14, 2019	0										No			0	0	0	0	0	0	
January 15, 2019	0										No			0	0	0	0	0	0	
January 16, 2019	0										No			0	0	0	0	0	0	
January 17, 2019	0										No			0	0	0	0	0	0	
January 18, 2019	0										No			0	0	0	0	0	0	
January 19, 2019	0										No			0	0	0	0	0	0	
January 20, 2019	0										No			0	0	0	0	0	0	
January 21, 2019	0										No			0	0	0	0	0	0	
January 22, 2019	0										No			0	0	0	0	0	0	
January 23, 2019	0										No			0	0	0	0	0	0	
January 24, 2019	0										No			0	0	0	0	0	0	
January 25, 2019	0										No			0	0	0	0	0	0	

April 15, 2019	0
April 16, 2019	0
April 17, 2019	0
April 18, 2019	0
April 19, 2019	0
April 20, 2019	0
April 21, 2019	0
April 22, 2019	0
April 23, 2019	0
April 24, 2019	0
April 25, 2019	0
April 26, 2019	0
April 27, 2019	0
April 28, 2019	0
April 29, 2019	0
April 30, 2019	0
May 1, 2019	0
May 2, 2019	0
May 3, 2019	0
May 4, 2019	0
May 5, 2019	0
May 6, 2019	0
May 7, 2019	0
May 8, 2019	0
May 9, 2019	0
May 10, 2019	0
May 11, 2019	0
May 12, 2019	0
May 13, 2019	0
May 14, 2019	0
May 15, 2019	0
May 16, 2019	0
May 17, 2019	0
May 18, 2019	0
May 19, 2019	0
May 20, 2019	0
May 21, 2019	0
May 22, 2019	0
May 23, 2019	0
May 24, 2019	0
May 25, 2019	0
May 26, 2019	0
May 27, 2019	0
May 28, 2019	0
May 29, 2019	0
May 30, 2019	0
May 31, 2019	0
June 1, 2019	0
June 2, 2019	0
June 3, 2019	0
June 4, 2019	0
June 5, 2019	0
June 6, 2019	0
June 7, 2019	0
June 8, 2019	0
June 9, 2019	0
June 10, 2019	0
June 11, 2019	0
June 12, 2019	0
June 13, 2019	0
June 14, 2019	0
June 15, 2019	0
June 16, 2019	0
June 17, 2019	0
June 18, 2019	0
June 19, 2019	0
June 20, 2019	0
June 21, 2019	0
June 22, 2019	0
June 23, 2019	0
June 24, 2019	0
June 25, 2019	0
June 26, 2019	0
June 27, 2019	0
June 28, 2019	0
June 29, 2019	0
June 30, 2019	0
July 1, 2019	0
July 2, 2019	0

[illegible]

Zones	At start of or before end of 12 hr shift	24 hr	48 hr	72 hr	At start of or before end of 12 hr shift
-------	--	-------	-------	-------	--

1	60	100	150	20060
2	50	80	120	16050
3	40	70	100	13040
4	30	50	80	11030
5	20	30	50	8020
6	10	20	30	4010
7	1	1	1	1SHUT DOWN
8	1	1	1	1SHUT DOWN
9	1	1	1	1SHUT DOWN
10	1	1	1	1SHUT DOWN
11	1	1	1	1SHUT DOWN
12	1	1	1	1SHUT DOWN

Zones	At start of or before end of 12 hr shift	24 hr	48 hr	72 hr	Zone (Annual Precipitation)
1	60	100	150	200	Very Wet
2	50	80	120	160	Wet
3	40	70	100	130	Average
4	30	50	80	110	Dry
5	20	30	50	80	Very Dry
6	10	20	30	40	Unstable conditions
7	1	1	1	1	SHUT DOWN
8	1	1	1	1	SHUT DOWN
9	1	1	1	1	SHUT DOWN
10	1	1	1	1	SHUT DOWN
11	1	1	1	1	SHUT DOWN
12	1	1	1	1	SHUT DOWN

From: [Ciarniello, Jocelyn FLNR:EX](#)
To: [Knapp, Allan FLNR:EX](#); [Quesnel, Paul FLNR:EX](#); [MacDonald, Jillian FLNR:EX](#)
Subject: FW: Amphibian survey
Date: September 2, 2021 4:24:20 PM

Dug this up from the depths of my email inbox...

From: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Sent: February 11, 2020 1:33 PM
To: Dave Rollins <drollins@bmlogging.com>; Laren Saindon <lsaindon@btheli.com>
Cc: Ciarniello, Jocelyn FLNR:EX <Jocelyn.Ciarniello@gov.bc.ca>; Graham, Jeremy D FLNR:EX <Jeremy.Graham@gov.bc.ca>
Subject: Amphibian survey

Hey Dave,

Sorry for the delay, I needed some time to review documents and discuss with staff. However I had this ready to send and it got tucked away in my drafts folder, forgotten.

Crossing the stream in order to clear F&B to 'facilitate construction' would be considered part of the construction process, and I am assuming it would also require constructing a temporary crossing for a machine that prevents sedimentation and damage to the stream bed & banks. That being said, the amphibian survey should happen before any machinery crosses the stream (Puncheon would just bury any amphibians.)

There is also downstream water quality to consider, as BCTS will be doing weekly water testing while you are active in this TSL.

Thank you,

Allan Knapp, RPF
Operations Technologist – BCTS – TCH
Regional Operations Division – Coast Area
Ministry of Forests Lands and Natural Resource Operations
7077 Duncan St, Powell River, BC, V8A 1W1
Office 604-485-0735 & Cell 604-413-0653

From: Dave Rollins <drollins@bmlogging.com>
Sent: February 3, 2020 1:26 PM
To: Knapp, Allan FLNR:EX <Allan.Knapp@gov.bc.ca>
Cc: Laren Saindon <lsaindon@btheli.com>
Subject: Amphibian survey

Hi Allan,

Just looking for clarification and confirmation on the survey for tadpoles in creek 1. It states before road crossings are built. Am I correct in interpreting that we are able to cross the stream with a log loader to deck f&b to the side of the right-of-way to facilitate construction prior to the survey. Based on the time of year I would not expect tadpoles to be present, as they generally don't hatch until mid-july to mid-September.

We would then get an RPBio to conduct the survey promptly prior to constructing the crossing.

Thanks

Dave

Sent from my iPhone