Phase 1 Environmental Site Assessment: Dunn Lake Road Widening Project

Ministry of Transportation and Infrastructure

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Kamloops, BC
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<tr><th colspan="4">Revision History and Approvals</th></tr>
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Disclaimer

This report is rendered solely for the use of the Ministry of Transportation and Infrastructure (MOTI) in connection with the Dunn Lake Road Widening (the Project), and no person may rely on it for any other purpose without Estsék' Environmental Services LLP's (Estsek') prior written approval. Should a third party use this report without Estsék's approval, they may not rely upon it. Estsék' accepts no responsibility for loss or damages suffered by any third party as a result of decisions made or actions taken based on this report.

The objective of this report is to address the following scope requirement:

- Conduct a Phase 1 Environmental Site Assessment (Phase 1 ESA) in support of MOTI Section 35 for Dunn Lake Road project as described in site plans provided by MOTI (email December 3, 2015).

The Phase 1 ESA was conducted using due care, diligence, and judgement in accordance with CSA standards (2001), the *Environmental Management Act* and other pertinent legislation of the Province of BC. The findings and conclusions regarding contamination of the subject property are based solely on the extent of observations and information gathered during this Phase 1 ESA, and do not guarantee that the property has or has not been subject to contamination, but aims to reduce uncertainties regarding the potential for property contamination. Where the potential for contamination has been identified, further reduction or elimination of uncertainty may require additional investigation.

We applied accepted professional practices and standards in developing and interpreting data obtained by our field measurement, sampling, and observation. While we used accepted professional practices in interpreting data provided by MOTI or third party sources we did not verify the accuracy of data provided by MOTI or third party sources.

This report should be considered as a whole and selecting only portions of the report for reliance may create a misleading view of our opinions.

No on-site testing, sampling, or analysis of soils, water, wastes, air, or other materials was conducted. Field observations were limited by environmental conditions. The assessment was requested by the client in winter and therefore some of the field observations occurred after fresh snowfall with snow depths of 2 to 5 cm.

Geo-referenced points and limits of the Project could not be provided by MOTI at the time of assessment. As a result, we do not guarantee that the geographical scope of the Phase 1 ESA corresponds exactly with the plans provided. Requirements for additional assessment due to discrepancies will be considered additional works, outside of the scope of this Phase 1 ESA.

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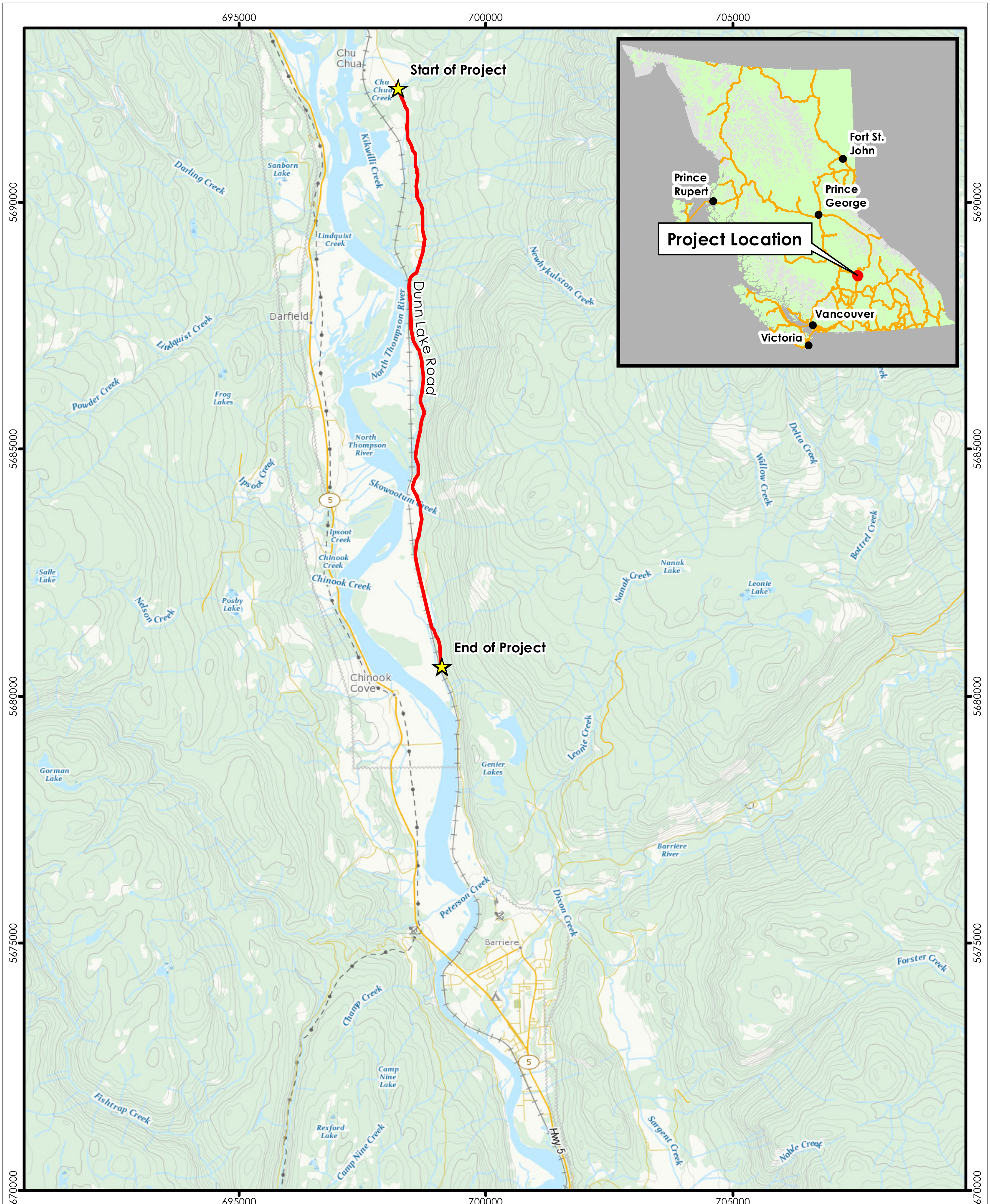
1.0 Heading 1

Estsék' Environmental Services LLP (Estsék') was retained by the Ministry of Transportation and Infrastructure (MOTI) to conduct a Phase I Environmental Site Assessment (ESA) in accordance with requirements of the Dunn Lake Road Widening project (the Project). MOTI proposes to widen the existing Dunn Lake Road for approximately 12 km (10U 699114 E 5680610 N to 10U 698227 E 5692300; Figure 1) and requires acquisition of lands outside of the current MOTI right-of-way. This portion of Dunn Lake Road is through Simpcw First Nation (formerly North Thompson IR 1) north of Barriere, BC.

The purpose of this Phase 1 ESA is to identify potential for contaminated sites within the Project area and provide an overview of other environmental concerns. The Project area has been defined as:

- The existing MOTI right-of-way (ROW), and
- Parcels of land identified for acquisition by MOTI in support of the Project (Appendix 1).

Figure 1. Project location map



5420 Dunn Lake Road Widening Project

0 0.25 0.5 1 1.5 2 2.5 3 Kilometers

Scale: 1:100,000

File Path:

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Figure 1 - Project Location

Project No:	5420
Date:	Feb 22, 2016
Basemap Source:	Canada Base Map
Map Datum:	NAD 1983 UTM Zone 10N

1.1 Project Information

The Phase I ESA was conducted in accordance with the Canadian Standards Association (CSA) Z768-94 guidelines (CSA, 2001), and with the principles of a Phase I Preliminary Site Investigation as prescribed by the Contaminated Sites Regulation (Part 14, B.C. Reg. 375/96), the *Environmental Management Act*, Chapter 12 of the Aboriginal Affairs and Northern Development Canada (AANDC) Land Management Manual, and other pertinent legislation of the Province of BC.

The objective of the Phase 1 ESA was to assess the potential for presence of contaminants, hazardous materials, waste materials of a deleterious nature, or other environmental concerns present within the Project area. The assessment included:

1. Review of the Project corridor along Dunn Lake Road to identify potential contaminated sites or areas of concern;
2. For sites identified as potentially contaminated, collection of relevant property information including site description, physical and environmental setting, historical use, current site uses, and neighbouring properties;
3. Interviews with suitable individuals to obtain background information on current and past land uses;
4. A records review of the properties in the Project area including site registry and request of Land Status Reports or a Parcel Abstract Report;
5. A site visit to conduct investigations and search for evidence of possible contamination or environmental impairment; and
6. Reporting on findings and detailing opinion with respect to the likelihood of contamination within the Project area.

The findings and opinion with respect to the likelihood of contamination are based solely on the extent of observations and information gathered during the Phase I ESA, and do not guarantee that the property is or has not been subject to contamination, and aims to reduce uncertainties regarding the potential for property contamination. The scope of work excluded sampling of soil, groundwater, and/or soil vapour.

2.0 Site Profile

2.1 General Site Description

The Project area is located north of Barriere, BC adjacent to the existing Dunn Lake Road. All of the properties assessed are within the Simpcw First Nation Reserve, or North Thompson IR 1 (No. 07186), and at present are primarily residential areas and agricultural lands. One location had previously been a sawmill site and is now the site of Simpcw Resources Ltd. LLP office and storage yard.

2.2 Legal Property Descriptions

All properties associated with the proposed Project are registered with the Simpcw First Nation in the Indian Lands Registry System as being a part of the North Thompson IR 1. Individual parcel identifiers have been registered for certain properties and associated uses. A Certificate of Possession (CP) indicates that a parcel, not necessarily legally surveyed, has been registered with a member of the Simpcw First Nation for their intended use. A list of CPs within the indicated Project area anticipated to be involved in lands acquisition was assembled (Section 2.2.1).

2.2.1 Certificate of Possession (CPs) parcels

Based on the Project plans provided, there are four CP holders within the Project area likely to be affected by the Project:

- LOT 64-2 RSBC 2126 PIN: 902515850
- LOT 73 CLSR 66587 PIN: 90200905
- LOT 77 CLSR 66587 PIN: 902014355
- LOT 66-1 RSBC 3808R PIN: 902516896

Parcel Abstracts are provided for each of these CP holder properties (Appendix 2). These lands have been used primarily for agricultural or residential uses (Table 1).

Table 1. Historic site use of CP Holder properties

Year	*Legal Description*	*Land Use*
1982 – Present	**LOT 77 CLSR 66587**	Agriculture
2005 – Present	**LOT 64-2 RSBC 2126**	Agriculture
1996 – Present	**LOT 73 CLSR 66587**	Agriculture
2005 – Present	**Lot 66-1 RSBC 3808R**	Agriculture

2.3 Historical Use

Historical anthropogenic uses of the land within or adjacent to the Project area have included:

- Traditional Use – gathering, hunting, traditional cultural use;
- Agriculture – pasture and hayfields;
- Residential development;
- Industrial – sawmill[1];
- Industrial – shop and equipment yard;
- Band Office;
- School;
- Fire Hall;
- Recreation – baseball park;
- Transfer Station – road access; and
- Roads and rights-of-way.

Figure 2. Aerial view of old sawmill site, facing east (circa 2005)

[1] Between 1992-2009, Simpcw Development Corporation owned and operated a sawmill on the site that is now leased by Simpcw Resources Limited LLP (SRL) and has been identified within this report for further investigation (Figure 2). For clarification purposes, this land will be referred to in this report as the "old sawmill site". The site had once supported a sawmill and included the use of vehicles, machinery, fuel storage, and a refuelling station and is considered industrial use of the property.

As part of the assessment, persons familiar with the property were contacted to obtain background information on use and activities. Persons consulted are summarized in Table 2.

Table 2. Persons interviewed and/or consulted regarding the old sawmill property

Name	Title	Organization	Phone Number	Purpose
Sam Phillips, RPF	General Manager	Simpcw Resources-SRG	250.851.1691	Historical information
Nathan Matthew	General Manager	Simpcw Dev. Corp.	250.851.6054	Historical Information

2.4 Current Site Uses

Current anthropogenic uses of the land within or adjacent to the Project area include:

- Traditional Use – gathering, hunting, cultural use;
- Agriculture (pasture and hayfields);
- Residential development;
- Industrial – shop and equipment yard[2];
- Industrial –SRL LLP office and yard;
- Band Office;
- School;
- Fire Hall;
- Recreation – baseball park;
- Transfer Station – and road access; and
- Roads and rights-of-way.

2.5 Environmental Setting and Sensitivities

2.5.1 Environmental Overview

The Project is located in the Interior Douglas Fir very dry hot subzone Thompson Variant (IDFxh2). The IDFxh2 subzone is found at lower elevations of the Nicola and Lower Thompson watersheds between 400 and 1,200 m elevations. Mean annual precipitation ranges from 30 to 42 cm with snow depths rarely exceeding 50 cm. The IDFxh subzone

[2] Since 2013, SRL LLP has been leasing the old sawmill site from Simpcw First Nation. SRG has two offices, storage shed, vehicles, and three shipping container storage units. The portion of the property on the west side of Dunn Lake Road is leased to Chinook Cove Contracting, which is a construction/logging company.

natural disturbance regime includes frequent wildfires. Substantial growing season moisture deficits are common in the IDF and frosts can occur at any time (Meidinger and Pojar, 1991).

2.5.2 Streams and Adjacent Water Bodies

A query of Provincial databases was done to identify watercourses in the vicinity (Table 3). Field crew surveyed the Project area to verify stream locations and identify other watercourses or water features not identified in the queried databases.

Table 3. Watercourses within the Project area

Watershed Code	*Description*	*UTM Coordinates*	*Status*
129-	North Thompson River	Various – does not intersect Project. NT tributaries intersect the Project	Runs to the East of Dunn Lake Road
129-227200	Skowootum Creek	10U 698605E 5684037N	Possible connectivity to North Thompson River, no fish data available
129-241800	Newhykulston (Coal) Creek	10U 698743E 5689099N	Possible connectivity to North Thompson River, no fish data available
129-251100	Kikwilli Creek	10U 698732E 5689546N	Possible connectivity to North Thompson River, no fish data available
129-254600	Chu Chua (Timber) Creek	10U 698227E 5692300N	Connectivity to North Thompson River, North end of project, no fish data available

Source: Habitat Wizard (2015)

2.5.3 Species at Risk

The Conservation Data Centre (CDC) BC Species and Ecosystems Explorer (BCSEE) web tool was used to query Provincially Red- and Blue-listed plants, animals, and ecological communities as well as those protected by the federal *Species At Risk Act* (SARA) with potential to occur within, or near, the Project. Query result summaries are provided in the sections below.

2.5.3.1 Flora Species at Risk

Fifty-four Red- or Blue-listed flora, or plant, species were identified as potentially occurring in the IDF or IDFxh, five of which are also SARA-listed (BC CDC, 2015; Appendix 3).

2.5.3.2 Rare and Endangered Ecological Communities

The BCSEE was queried for listed ecological communities with potential to occur in the IDFxh2 and the Kamloops Forest District. Query results indicated potential for 7 Red- or

Blue-listed ecological communities to occur within, or near, the Project area (Appendix 4).

The Project area is surrounded by agricultural lots and fenced-off areas such as pasture and existing MOTI ROW. There are no parklands or protected areas close to the site.

2.5.3.3 Wildlife Species at Risk

Forty-two species of Red- and Blue-listed wildlife were identified as having potential to occur within the IDF and the Kamloops Forest District, and thus within or near the Project (CDC 2015; Appendix 5). Additionally, one mapped known occurrence of species at risk overlaps the Project area: Polygon 86238 – American Badger.

The American Badger (*Taxidea taxus*) is Provincially Red-listed. The American Badger occurrence generally follows along the South Thompson River east to Little Shuswap Lake and then south to Kamloops to approximately Shumway Lake. On the west the occurrence roughly follows Kamloops Lake and the Tranquille River to Deadman River and north along the North Thompson River to Clearwater. It represents 350 records of American Badger sightings, road kills, and burrows (BC CDC, 2015).

2.6 Archaeological Site

One Archaeological site was identified at UTM Location 10U 698454E; 5687853N. The Referrals Department at Simpcw First Nation was contacted and confirmed the site is registered with the Remote Access Archaeological Database (RAAD). The site is protected through the *Conservation Heritage Act* and the Simpcw Cultural Heritage Policy – Adopted September 2015.

3.0 Records Review

3.1 Background Research

Parcel Abstract Reports for the CP properties were obtained from the Indian Lands Registry System through the Simpcw First Nation Housing Officer and Membership Clerk (Appendix 2). The Simpcw Lands Manager provided a letter indicating that Parcel Abstract Reports were unable to be generated for properties owned or registered to Simpcw First Nation. This letter is included in Appendix 2.

3.2 Property Permits, Orders, or Notifications Related to Subject Property

The Parcel Abstract Report stated there were no Easements/Permits or related instruments affecting the PINs. No other information relating to notifications or orders were found.

4.0 Site Visit

Site visits were completed on December 16, 2015, January 18, 2016, and January 21, 2016. The three site visits were completed by Estsék' Environmental Technician Shelly Loring. The weather during the inspections was cloudy (between 70 to 100% cloud cover) and temperatures were between 3.0°C and -4°C. The ground was covered with 2 to 5 cm of snow.

Three site visits involved a visual review of the surfaces along the Project including the presence of suspect materials. Ground surveys were conducted to assess potential for conditions to adversely affect (or contaminate) the soil, surface water, or ground water and other environmentally sensitive areas. Select photographs taken during the site visits are provided in Appendix 6.

4.1 Field Observations

4.1.1 Project Area Overview

The Project corridor consists of open agriculture fields with corridors of treed forest between the surrounding properties and the river. There are several residential homes and three subdivisions along Dunn Lake Road. There are two structures that are in relatively close proximity to Dunn Lake Road: the Cyprian Joseph Ball Park and the Chu Chua Volunteer Fire Department. On the North Thompson Indian Reserve No. 1 (Simpcw First Nation) there are two residential homes that are also in close proximity to the road. Anthropogenic disturbance was common throughout the Project area. Disturbances included hay fields, pasture land, farmland, roads, residential areas, and road rights-of-way.

4.1.2 Roads and Rights-of-Way

The Project is approximately 12 km in length. Several driveways, residences, and residential subdivisions and right-of-way access roads were observed.

A CN right-of-way is situated between the Dunn Lake Road and the North Thompson River. Dunn Lake Road does not cross over the CN tracks at any point.

4.1.3 Vegetation

The Project area included forested areas, agricultural lands, and wetlands. Field crews documented trembling aspen (*Populus tremuloides*), willow shrub (*Salix* ssp.), black hawthorn (*Crataegus douglasii*), red osier dogwood (*Cornus sericea*), rose (*Rosa* spp.), alder (*Alnus* spp.), herbs, and pasture grasses. The forested sites were dominated by trembling aspen, lodgepole pine (*Pinus contorta* var. *latifolia*), Douglas fir (*Pseudotsuga menziesii*) and western redcedar (*Thuja plicata*) with various shrubs and herbs species found in the understory.

4.1.4 Wildlife Observations

During the site visits, one Northern Flicker (*Colaptes auratus*) was observed flying out of the cavity of a wildlife tree beside Dunn Lake Road. A mineral lick was also recorded that indicated heavy wildlife use.

Evidence of American Badger use was not detected during the three site visits. However, in the summer of 2015, Shelly Loring observed an American Badger along Dunn Lake Road and within the Project area. The species is highly mobile with home ranges reaching up to several hundred kilometres (Klafki, 2012; Hoodicoff, 2003 and 2005). It is reasonable to assume badgers could inhabit the area. Although there were no specific wildlife sightings at the time of this survey, the forested area could be used as a wildlife corridor with co-habitation with local livestock.

4.1.5 Environmental Areas of Interest

Field reconnaissance and investigations were completed and summarized in Table 4. The entire length of the Project was surveyed and additional focus was put on areas of interest where additional site-specific information was collected.

Table 4. Areas of interest and waypoints within the Project area

Kilometre (Km + M)	*UTM Location: Zone 10U*		*Description*	*Concerns*
	Easting	**Northing**		
0 + 00	699114	5680610	Point of commencement. South boundary of North Thompson Indian Band IR No. 1	No concerns to note.
0 + 600	698992	5681248	Seasonal spring on E. side of DLR[3]. Spring flows to wetland NE along DLR.	Recommend Amphibian and Rare plants surveys of the wetland N.E. of spring prior to construction. Ensure proper drainage is maintained.
0 + 850	698906	5681408	Wetland, East side of DLR, ~4 hectares, well established hydro-phytic plants. On W. side of DLR there is a culvert under CN tracks. Could not locate a culvert along DLR.	Recommend Amphibian Survey prior to construction. Maintain proper drainage.
2 + 200	698595	5682716	Badger sighting in June 2015 on E. bank along DLR. On W. side of DLR, it is primarily hayfields.	Recommend Badger presence/non-detection and den surveys.
3 + 075	698705	5683557	Wetland, E. side DLR, ~0.7 hectares. Water present year-round. Well established hydrophytic plants. Connects to	Recommend Amphibian and Rare plants surveys. Maintain proper drainage.

[3] DNR = Dunn Lake Road

Kilometre (Km + M)	UTM Location: Zone 10U		Description	Concerns
	Easting	Northing		
			culvert that flows to man-made sump on W side of DLR.	
3 + 100	698686	5683636	Man-made sump on W side of DLR. Built to water livestock pasturing in hayfield. Size ~15m L X ~10m W. A 300 mm culvert feeds the sump.	Recommend proper drainage is maintained pre- and post-construction.
3 + 500	698605	5684037	Skowootum Creek and road crossing (2 side by side culverts)	Recommend proper drainage is maintained.
3 + 600	698608	5684071	S. boundary of Simpcw Resources Ltd (SRL). Entrances on both E. & W. sides of DLR to properties. The site was previously used by Simpcw Development Corp (SDC) as a Sawmill). Property on W. side of DLR is leased to local Construction Co. Potential for contamination due to historical and present day use (sawmill and fuel storage).	Recommend further investigation.
3 + 750	698527	5684204	Old sawmill site centre point. Property was previously Simpcw Development Corporation (SDC). Currently, on W side of DLR is a shop and heavy equipment. Site is leased. E side of DLR is the administration offices equipment storage for SRG. Fuelling tank observed ~50 m on E. side DLR. Both properties (E and W of DLR) have potential contamination due to historical and present use. Snow covered (2 to 5 cm) hindered visual detection of contamination.	Recommend further investigation when snow is melted.
	698502	5684289	N. boundary of leased yard on W. side of DLR. Buildings and equipment observed on site: 1 large shop, decommissioned vehicles, heavy equipment, old fuel tanks, hydraulic buckets and logs. Suspect hydrocarbon contamination.	Recommend further investigation of the property. Was not able to complete full investigation due to snow covered ground.
	698498	5684011	S. boundary of leased yard on W. side of DLR. The length of the W. property is ~275 m L X ~200 m	Recommend further investigation of leased

Kilometre (Km + M)	UTM Location: Zone 10U		Description	Concerns
	Easting	Northing		
			W. Skowootum Creek is ~15 m from the southern edge of the property. S. end of property slopes toward the creek. Ground cover is wood chips.	property for potential contaminants.
4+00	698653	5684412	N. boundary of SRG. Ground cover is wood chips and observed a few old logs.	Recommend further site investigation for buried contaminants.
4 + 00	698365	5684412	W. side of DLR, seasonal wetland. Approx 4 ha along DLR. During high water/freshet the area fills with water.	Recommend proper sediment and erosion control and ensure appropriate drainage is maintained.
6 + 300	698605	5684442	Simpcw Transfer Station, E. side of DLR. Historically "the dump" was an open pit disposal site. Site is 55 m from the road. Potential leaching of waste material into surrounding soil.	Recommend additional investigation at this site.
7 + 400	698471	5687649	Observed large wildlife tree and two smaller wildlife trees with multiple cavities 5 m from roadside. One Northern Flicker flew out of cavity in tree.	Recommend further surveys and preservation of trees for wildlife use.
7 + 600	698454	5687853	Archaeological Site. Site is protected under the *Conservation Heritage Act* and the Simpcw Cultural Heritage Policy - 2015.	Recommend no disturbance to the site.
7 + 900	698453	5688162	Wildlife mineral lick, E. side of DLR. Observed several deep cavities and trails. Site is well used.	Recommend no disturbance and not widen at this site. Consider impacts of construction to wildlife.
8 + 200	698572	5688561	Wetland-swamp on W. side of DLR, well established hydrophytic vegetation, several wildlife trees, nest cavities and dormant nests observed. Length of site is ~175 m.	Recommend minimal disturbance to the wetland/swamp. Widen on East side of DLR.
8 + 500			S. Simpcw Main Reserve residential area starts.	No concerns to note.
8 + 900	698743	5689099	Newhykulston Creek, flows seasonly, one 1,800mm culvert.	Recommend proper drainage is maintained.
9 + 100	698759	5689217	Historic irrigation channel, one 400 mm culvert crosses DLR.	Recommend proper drainage is maintained.
9 + 400	698732	5689546	Kikwilli Creek, one 1,200mm culvert across DLR, At outlet of	Recommend drainage is maintained.

Kilometre (Km + M)	UTM Location: Zone 10U		Description	Concerns
	Easting	Northing		
			culvert, a second culvert runs in ditch line under Coal Creek Cr.	
9 + 500			N. Simpcw Main Reserve residential area ends.	No concerns to note.
10 + 300	698619	5690473	E. side DLR, flowing seepage, flows in ditch line ~20 m to a culvert at 10 + 325	Recommend proper drainage is maintained.
10 + 325	698619	5690492	E. side DLR seepage flows from mountain side. One 300 mm culvert across DLR	Recommend proper drainage is maintained.
10 + 700	698590	5690855	E. side DLR seepage flowing. Observed Two 600 mm culverts across DLR.	Recommend proper drainage is maintained.
11 + 150	698426	5691301	E. side of DLR seepage flows in ditch line to culvert at 11 + 300. Observed hydrophytic plants in ditch line.	Recommend proper drainage is maintained.
11 + 300	698433	5691422	E. side of DLR seepage flows to one 400 mm culvert across DLR and into a wetland located in a hayfield approx. 150m from roadside	Recommend Amphibian and Rare Plant Surveys prior to commencement of work and proper drainage must be maintained.
12 + 200	698227	5692300	Point of Termination (POT) - North boundary North Thompson Indian Band IR No. 1. POT is S. of Chu Chua Creek. Creek flows seasonally during freshet. Creek has connectivity to North Thompson River.	Recommend proper drainage is maintained. Determine construction boundary and avoid potential impacts to Chu Chua Creek.

4.2 Old Sawmill Site

4.2.1 Topographic Condition

The old sawmill site on the east side of Dunn Lake Road is located on a bench at the base of a mountain. The property slopes downward toward Dunn Lake Road.

On the west side of Dunn Lake Road, the property is slightly down-sloped toward the CN Railway. On the south end of the property is Skowootum Creek.

4.2.2 Fill

In 2013, the Subject Property was subject to re-contouring with existing soil and wood chips from the decommissioned sawmill. It was indicated that no fill material or wood chips were removed from the site after the sawmill was decommissioned. The current SRG site is situated on top of this material.

4.2.3 Air Emissions

No air emissions or possible sources of air emissions were observed.

4.2.4 Hazardous Materials

Hazardous material and hydrocarbons were observed at the old sawmill site. Suspect hydrocarbon contamination will require further investigation.

4.2.5 Storage Tanks/Containers

Interviewees confirmed that a fuel storage tank was located on the old sawmill site where the SRG yard is currently. That particular tank was removed and replaced with a new fuel storage unit which services SRG equipment, mostly trucks and ATV/UTVs.

On land west of Dunn Lake Road that is currently leased by Chinook Cove Contracting, a decommissioned fuel tank was observed on-site. Also observed were hydraulic buckets, decommissioned vehicles and heavy equipment, a large shop, and shipping container storage. Hydrocarbon contamination is suspected at this site.

4.2.6 Odours

No suspect odours were detected during site visits at any locations within or near the Project area.

4.2.7 Special Attention Items

No items of special attention (e.g., asbestos/formaldehyde insulation) were noted beyond that which has been described in Section 4.2.

4.3 Interview/Questionnaire Results

Several individuals familiar with the old sawmill site were questioned about the historical and current uses of the area. Responses are provided in Appendix 7 and a summary of responses is provided below.

1. The use of the property has historically been:
    a. Simpcw Development Corporation (Sawmill); and
2. To the best of the individuals interviewed as part of the assessment's knowledge, there has been:
    b. No known spills or environmental issues associated with the Subject Property; and
    c. No hazardous wastes generated by the Property's activities.

4.4 Neighbouring Properties

There is a low possibility that neighbouring properties could be contaminating or impacting the Subject Property. The surrounding properties are primarily agriculture fields and forested land.

5.0 Conclusions

A Phase I ESA for the Dunn Lake Road Widening Project was completed in accordance with CSA standards (2001), the Contaminated Sites Regulation, the *Environmental Management Act,* and other pertinent legislation of the Province of British Columbia.

Background information searches provided information used to guide field investigations. Interviews with Simpcw First Nation community/residential members were conducted and provided valuable historical information on land uses within the Project area.

The information for the Dunn Lake Road Widening Project and Subject Property obtained for the review was a Parcel Abstract Report obtained from Arnold Baptiste, Manager, Simpcw First Nation Housing, Membership, and Lands Department. No on-site testing, sampling, or analysis of soils, water, wastes, air, or other materials were conducted. Based on these observations and interviews, the following conclusions have been made:

- Two sites, Simpcw Resources Limited LLP (historically Simpcw Development Corporation old sawmill site) and the Simpcw Transfer station, have been identified as requiring further testing and examination to confirm or negate potential contamination.
- Past use of the old sawmill site included milling, heavy equipment operations, fuelling station, and sawmill products and materials storage.
- There are historical and present-day fuel storage tanks and refuelling stations located on the old sawmill site.

It is the opinion of Estsék', based on information gathered from the Phase I ESA, that the Subject Property currently presents likelihood of land and groundwater contamination from internal or external sources at certain locations (described above). Further investigation may be required to confirm presence or absence of contamination within the proposed Project area at sites noted above.

6.0 References

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APPENDIX 1

PLAN OF SURVEY OF DUNN LAKE ROAD WIDENING PROJECT THROUGH NORTH THOMPSON INDIAN RESERVE NO. 1 (SIMPCW FIRST NATION IR NO. 1)

A copy of this plan is filed in the Land Title Office at Kamloops B.C. under number

KAP56623

CANADA LANDS SURVEYS RECORDS
7 8 2 8 4
DATE: 6 MAR 1996

PLAN OF SURVEY OF HIGHWAY THROUGH NORTH THOMPSON INDIAN RESERVE No.1

Kamloops Division Yale District
British Columbia

B.C.G.S. 92P.030

Scale 1:1000

0 5 10 20 50 75 100 metres

This survey was executed during the period from January 29/93 to January 7/94 by R.M. Bartell, B.C.L.S.

Bearings are astronomic and are derived from stellar observation referred to the meridian through found Iron Post #287 shown on Plan .... C.L.S.R.

All distances are in metres and decimals thereof.
All lines not checked by closure have been check measured.

B.C.G.S. denotes "British Columbia Geographical System".
WT denotes "Witness Post".
B.C. Standard Concrete Post placed
B.C. Standard Capped Post placed
B.C. Standard Iron Post found
B.C. Standard Iron Post placed
Stone Mound .... S.M.
Lands dealt with by this plan bounded thus
All posts found and set are marked with an identifying number eg. #10

BOOK OF REFERENCE

DESCRIPTION		AREA
NORTH THOMPSON IR No. 1	Area to be Acquired	0.83 ha
	Existing Road	0.61 ha
	TOTAL ROAD BY PLAN	1.44 ha

Autocad File: 93522CL4.DWG (1/17/94)

BARTELL & FIEDRICH
LAND SURVEYING INC.
204 – 153 SEYMOUR STREET
KAMLOOPS, B.C. V2C 2C7, PH: 372-8835
Kamloops FILE 93-522 F.B. MOTH P. 1-39

Department of Indian Affairs and Northern Development
Re : Section 29, Canada Lands Surveys Act
This plan is satisfactory

Robert Hart 23/2/96 Date
Director, Lands
British Columbia Region

96-02-28 Date
Registrar, Surveys
Indian Lands, Hull, Quebec

on behalf of the Minister

Department of ~~Energy, Mines and~~ Natural Resources
Re : Section 29, Canada Lands Surveys Act
Confirmed

96 Mar 1 Date
David K. Nielsen,
Regional Surveyor, B.C.
Legal Surveys Division

Item No. DY-92 BC SM8210-07186 Exam'd by V Smythe Jan 4 1995 Reviewed by: [illegible]

C.L.S.R. 78284


CANADA LANDS SURVEYS RECORDS
7 8 3 1 5
DATE: 18 MAR 1996
A copy of this plan is filed in the Land Title Office at Kamloops B.C. under number
KAP56790
Field notes for this plan are recorded as No. 78314 C.L.S.R.
PLAN OF SURVEY OF
HIGHWAY THROUGH AND LANDS RETURNED TO
NORTH THOMPSON INDIAN RESERVE No.1
Kamloops Division Yale District
British Columbia
B.C.G.S. 92P.030
Scale 1:1000
0 5 10 20 50 75 100 metres
Surveyed by R.M. Bartell, B.C.L.S. in 1993 & 1994
Bearings are astronomic and are derived from stellar observation referred to the meridian through found Iron Post #287
All distances are in metres and decimals thereof.
All lines not checked by closure have been check measured.
B.C.G.S. denotes "British Columbia Geographical System".
WT denotes "Witness Post".
B.C. Standard Concrete Post placed
B.C. Standard Capped Post found
B.C. Standard Capped Post placed
B.C. Standard Iron Post found
B.C. Standard Iron Post placed
UCL – UNSURVEYED CROWN LAND
Stone Mound.... S.M.
Lands dealt with by this plan bounded thus
All posts found and set are marked with an identifying number eg. #10
BOOK OF REFERENCE
DESCRIPTION
AREA
NORTH THOMPSON IR No. 1
EXISTING ROAD 0.84 ha
NEW ROAD 1.95 ha
TOTAL ROAD BY PLAN 2.79 ha
CLOSED ROAD 0.177 ha
Autocad File: 93522CL2.DWG (1/17/94)
BARTELL & FIEDRICH
LAND SURVEYING INC.
204 – 153 SEYMOUR STREET
KAMLOOPS, B.C. V2C 2C7, PH: 372-8835
Kamloops FILE 93-522 F.B. MOTH P. 1-39
Department of Indian Affairs and Northern Development
Re : Section 29, Canada Lands Surveys Act
This plan is satisfactory
Robert Hart 23/2/96
Director, Lands British Columbia Region
Date
96-02-28
Registrar, Surveys Indian Lands, Hull, Quebec
on behalf of the Minister
Department of ~~Energy, Mines and~~ Natural Resources
Re : Section 29, Canada Lands Surveys Act
Confirmed
96 Mar 14
David K. Nielsen,
Regional Surveyor, B.C.
Legal Surveys Division
Date
Item DZ-92 BC Exam'd by V SMYTHE JAN 4/95 Reviewed by: B. Smith
SM8210-07186
C.L.S.R. 78312
NORTH THOMPSON INDIAN RESERVE No. 1
PLAN BC 223 C.L.S.R.
C.L.S.R. FN 73818
101-1
101-2
101-3
PLAN 73286 C.L.S.R.
PLAN 43827 L.T.O.
60
PLAN 59549 C.L.S.R.
PLAN M1719 L.T.O.
PLAN RR 1213A C.L.S.R.
PLAN A613 L.T.O.
PLAN RR 1213A C.L.S.R.
R/W PLAN A613 L.T.O.
CANADIAN NATIONAL RAILWAY
ROAD PLAN KAP 54263
DUNN LAKE ROAD
UNSURVEYED CROWN LAND
D.L. 144A
D.L. 4387
D.L. 4389
CURVE TABLE
N
N

Field notes for this plan are recorded as No. 76147 C.L.S.R.
CANADA LANDS SURVEYS RECORDS
7 6 5 6 7
DATE: 26 OCT 1994
A Copy of this plan is filed in the Land Title Office at Kamloops as KAP 53447
PLAN OF SURVEY OF
HIGHWAY THROUGH PART OF
North Thompson Indian Reserve No. 1
From the North East corner of Lot 77, Plan 66587 C.L.S.R.
(Plan M15938 L.T.O.), North 3.6 Km. ±
KAMLOOPS DIVISION OF YALE DISTRICT
BRITISH COLUMBIA
BRITISH COLUMBIA GEOGRAPHIC SYSTEM No. 92 P .030
SCALE 1 : 1000
100 metres
C.N.R. R/W Plan A613 L.T.O. , RR 1213 A C.L.S.R.
DUNN LAKE ROAD
North Thompson Indian Reserve No. 1
LOT 101-1, PLAN 73286 C.L.S.R.
ROAD To be Surveyed by R.M. Bartell
D.L. 144A
9.031 ha.
EXISTING ROAD 8.5m WIDE
Unsurveyed Crown Land
Lot 77
Plan M15938 L.T.O. 66587 C.L.S.R.
Plan
SURVEYED BY LEO B. COSTER , B.C.L.S. IN 1993 .
This Plan lies within the Thompson-Nicola Regional District .
LEGEND
Bearings are astronomic and are derived from Stellar Observation and are referred to the Meridian through Traverse Hub # 240 .
B.C. Standard Capped Post (Type 4(1)(a)) Placed
B.C. Standard Capped Post (Type 4(1)(a)) Found
B.C. Standard Concrete Post Found
B.C. Standard Iron Post Placed
B.C. Standard Iron Post Found
Traverse Hub
Lands dealt with by this shown thus
All Posts set are marked with an identifying number ..... 1 (Typical)
All distances are in metres and decimals thereof .
STOTHERS-COSTER-SINGER ,
B.C. and Canada Land Surveyors ,
543 Battle St. , Kamloops , B.C. V2C-2M1
Phone 374-5331 Fax 374-5332
KEY PLAN
Scale 1 : 1000000
KAMLOOPS
NORTH THOMPSON RIVER
HIGHWAY No. 5
BARRIERE
DUNN LAKE ROAD
SUBJECT AREA
LITTLE FORT
CLEARWATER
North Thompson Indian Reserve No. 1
EXISTING ROAD = 2.491 ha.
NEW ROAD = 6.540 ha.
TOTAL ROAD BY PLAN = 9.031 ha.
Book of Reference
DESCRIPTION
AREA
North Thompson Indian Reserve No. 1 , K.D.Y.D.
Existing Road = 2.491 ha.
New Road = 6.540 ha.
Total Road by Plan = 9.031 ha.
Department of Indian Affairs and Northern Development
Re : Section 29 , Canada Lands Surveys Act
This Plan is satisfactory
94.9.19
A/Manager, Lands British Columbia Region
Date
94.09.20
Deputy Registrar, Surveys Indian Lands , Hull , Quebec
Date
on behalf of the Minister
Department of Energy, Mines and Resources
Re : Section 29 , Canada Lands Surveys Act
Confirmed
94/09/22
David K. Nielsen
Regional Surveyor B.C.
Legal Surveyor Division
Date
Item Number: B-93 BC
File Number: SM8210-07186
923314(2) E.M.R.
Examined by : H. Mackaay
Reviewed by : B. Smith.

CANADA LANDS SURVEYS RECORDS
7 6 5 6 6
DATE: 26 OCT 1994

Field notes for this plan are recorded as No. 76146 C.L.S.R.

A Copy of this plan is filed in the Land Title Office at Kamloops as KAP 53448

PLAN OF SURVEY OF HIGHWAY THROUGH PART OF North Thompson Indian Reserve No. 1

From the North Boundary of D.L. 1446 to the North East corner of Lot 77, Plan M15938 L.T.O., (Plan 66587 C.L.S.R.).

KAMLOOPS DIVISION OF YALE DISTRICT
BRITISH COLUMBIA

BRITISH COLUMBIA GEOGRAPHIC SYSTEM No. 92 P .030

SCALE 1 : 1000

10 5 0 10 20 30 40 50 100 metres

SURVEYED BY LEO B. COSTER, B.C.L.S. IN 1993.

THIS PLAN LIES WITHIN THE THOMPSON-NICOLA REGIONAL DISTRICT.

LEGEND

Bearings are astronomic and are derived from Stellar Observation and are referred to the Meridian through Traverse Hub # 240.

B.C. Standard Capped Post (Type 4 (1)(a)) Placed .... ⊗
B.C. Standard Capped Post (Type 4 (1)(a)) Found .... ●
B.C. Standard Concrete Post Placed .... ◎
B.C. Standard Iron Post Placed .... ○
B.C. Standard Iron Post Found .... ●
Traverse Hub .... △
Lands dealt with by this shown thus .... ▬
All Posts set are marked with an identifying number .... 1 (Typical)
All distances are in metres and decimals thereof.

BOOK OF REFERENCE

PARCEL	DESCRIPTION	AREA
1	LOT 64, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	78 m^2
2	LOT 79, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	353 m^2 + 0.131 ha. TOTAL = 0.166 ha.
3	LOT 66, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	0.289 ha.
4	LOT 67, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	697 m^2
5	ROAD, PLAN 69188 C.L.S.R., PLAN M18218 L.T.O.	94 m^2
6	LOT 73, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	973 m^2
7	LOT 74, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	585 m^2
8	LOT 77, PLAN 66587 C.L.S.R., PLAN M15938 L.T.O.	54 m^2 + 64 m^2 = 118 m^2
9	NORTH THOMPSON INDIAN RESERVE No. 1	6.583 ha.
	TOTAL ROAD BY PLAN	7.293 ha.

STOTHERS-COSTER-SINGER,
B.C. and Canada Land Surveyors,
543 Battle St., Kamloops, B.C. V2C-2M1
Phone 374-5331 Fax 374-5332

Department of Indian Affairs and Northern Development
Re: Section 29, Canada Lands Surveys Act
This Plan is satisfactory

Kelly Beaulieu 94.9.19
A/Manager, Lands, British Columbia Region — Date
on behalf of the Minister

Robert J Turcotte 94.09.20
Deputy Registrar, Surveys, Indian Lands, Hull, Quebec — Date

Department of Energy, Mines and Resources
Re: Section 29, Canada Lands Surveys Act
Confirmed

D K Nielsen 94/09/22
David K. Nielsen, Regional Surveyor B.C., Legal Surveys Division — Date

Item Number: B-93 BC File Number: SM8210-07186 923314(1) E.M.R.
Examined by: H. Mackaay Reviewed by: B. Smith

APPENDIX 2

PARCEL ABSTRACT REPORTS FOR CP HOLDERS POTENTIALLY AFFECTED BY THE PROJECT

Simpcw First Nation
"People of the North Thompson River"

January 29, 2016

To whom it may concern,

This letter is in regard to the Dunn Lake Road Widening Project through Simpcw First Nation No. 1 (formerly North Thompson Indian Band No. 1). Shelly Loring, Intermediate Technician with Estsek' Environmental requested my assistance with generating Land Parcel Abstract Reports for properties that are within the Dunn Lake Road Widening Project corridor.

Land Abstract Reports were generated for four (4) individual Certificate of Possession Holders that have been compensated for land lost as a result of the road widening.

The Indian Land Registry program that I am required to work within did not generate Lot or PIN #'s for any of the Band owned properties. The Simpcw Resources Group (SRG) property also did have any information as it again a Simpcw First Nation owned property. Another challenge is that not all Simpcw First Nation owned properties have been legally surveyed. Unfortunately, I cannot provide further assistance with this request.

If you have any questions or in need of further information, do not hesitate to contact me at 250.672.9995 extension 224. Thank you

Sincerely,

Arnold Baptiste
Housing, Membership and Lands

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Selected Criteria:
Registry: ILRS
Reserve: 07186 - NORTH THOMPSON NO. 1
Include Sub-surface Parcels: No

Printed on: 2016/01/28 6:45 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 66-1 RSBC 3808R	Surface	902516896

Reserve:
07186 NORTH THOMPSON NO. 1

Previous Legal Description:

External Registry:

Plan Type & No:	PIN Status:	Province:
RSBC 3808R	Active	BRITISH COLUMBIA

Retired Reason:

Retired by Registration No:

Band:
691 - Simpcw First Nation

PIN Hierarchy :

ROOT PIN(s)	902014344R LOT 66 CLSR 66587
FORMER PIN(s)	902014344R LOT 66 CLSR 66587

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Printed on: 2016/01/28 6:45 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 66-1 RSBC 3808R	Surface	902516896

INSTRUMENTS REGISTERED AGAINST PIN: 902516896

Registration Number:	Reference Registration Number:	Instrument Date:
331492		2005/05/05

Registration Date:	Effective Date:	Expiry Date:	Actual Expiry Date:
2005/10/05 1:52:12PM			

Instrument Type:	Purpose:
Transfer	

OCPC:	IOGC:	Area:	Term:	

Land Affected: LOT 66-1 RSBC 3808R

Remarks: RETAINS PARTIAL INTEREST RECEIVED THROUGH REG #288236

Grantor(s): IDA MATTHEW

Grantee(s): IDA MATTHEW - Certificate of Possession 152672

EASEMENTS/PERMITS AND RELATED INSTRUMENTS AFFECTING PIN: 902516896

(Blanket permits for utilities distribution are found in the Reserve General Report)

No Easements/Permits

--- END OF REPORT ---

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Selected Criteria:
Registry: ILRS
Reserve: 07186 - NORTH THOMPSON NO. 1
Include Sub-surface Parcels: No

Printed on: 2016/01/08 5:13 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 77 CLSR 66587	Surface	902014355

Reserve:
07186 NORTH THOMPSON NO. 1

Previous Legal Description:

External Registry:

Plan Type & No:	PIN Status:	Province:
CLSR 66587	Active	BRITISH COLUMBIA

Retired Reason:

Retired by Registration No:

Band:
691 - Simpcw First Nation

PIN Hierarchy :

ROOT PIN(s)	902014354R LOT 15 - 30 ACRES CLSR 56067
	902014331R PARCEL 1 - 18 ACRES NOPLAN
FORMER PIN(s)	902014354R LOT 15 - 30 ACRES CLSR 56067
	902014331R PARCEL 1 - 18 ACRES NOPLAN

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Legal Description:	Parcel Type:	PIN:
LOT 77 CLSR 66587	Surface	902014355

INSTRUMENTS REGISTERED AGAINST PIN: 902014355

Registration Number: 86337
Reference Registration Number:
Instrument Date: 1982/11/24
Registration Date: 1983/02/24 12:00:00AM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **Request**
Purpose:
OCPC:
IOGC:
Area:
Term:

Land Affected: LOT 77 CLSR 66587
Remarks: REQUEST FOR SUBDISION OF LOT
Grantor(s):
Grantee(s): WILFRED MATTHEW - Certificate of Possession 36230

INSTRUMENTS REGISTERED AGAINST PIN: 902014355

Registration Number: 117157
Reference Registration Number:
Instrument Date: 1988/03/22
Registration Date: 1988/05/16 12:00:00AM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **Discharge**
Purpose:
OCPC:
IOGC:
Area:
Term:

Land Affected: FORMERLY N1/2 LOT 15 CLSR PLAN 56067
Remarks: CAVEAT REG# 62120
Grantor(s): INDIAN ECONOMIC DEVELOPMENT FUND BRANCH -B.C.
Grantee(s): WILFRED MATTHEW

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Printed on: 2016/01/08 5:13 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 77 CLSR 66587	Surface	902014355

INSTRUMENTS REGISTERED AGAINST PIN: 902014355

Registration Number: 126824

Reference Registration Number:

Instrument Date: 1989/04/13

Registration Date: 1989/10/25 12:00:00AM

Effective Date:

Expiry Date:

Actual Expiry Date:

Instrument Type: **Transfer**

Purpose:

OCPC:

IOGC:

Area:

Term:

Land Affected: LOT 77 CLSR 66587

Remarks:

Grantor(s): WILFRED MATTHEW

Grantee(s):
KEITH IRVIN MATTHEW - Certificate of Possession 49741
RONALD GEORGE MATTHEW - Certificate of Possession 49741
WILFRED DOUGLAS MATTHEW - Certificate of Possession 49741
MARTHA THERESA MATTHEW - Certificate of Possession 49741
KENNETH GORDON MATTHEW - Certificate of Possession 49741
WILFRED MATTHEW - Certificate of Possession 49741

Aboriginal Affairs and Northern Development Canada / Affaires autochtones et Développement du Nord Canada

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Printed on: 2016/01/08 5:13 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 77 CLSR 66587	Surface	902014355

INSTRUMENTS REGISTERED AGAINST PIN: 902014355

Registration Number: 6075971
Reference Registration Number:
Instrument Date: 2012/08/15
Registration Date: 2013/12/05 6:16:44PM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **Admin Transfer**
Purpose:
OCPC:
IOGC:
Area: 0.000
Term:

Land Affected: LOT 77 CLSR 66587

Remarks: TRANSFER 1/6th INTEREST (each party received 1/48th interest). SEE ADDITIONAL INTEREST (8/48th - Wilfred Matthew) AT TRANSFER REG #126824.

Grantor(s): Estate of KENNETH GORDON MATTHEW

Grantee(s): Estate of RONALD GEORGE MATTHEW - Interest Note: Undivided 9/48 interest - NETI
KEITH IRVIN MATTHEW - Interest Note: Undivided 9/48 interest - Certificate of Possession 403021710
MAUREEN MAY MACLEOD - Interest Note: Undivided 1/48 interest - Certificate of Possession 403021707
RUSSELL ANTOINE MATTHEW - Interest Note: Undivided 1/48 interest - Certificate of Possession 403021711
RHONDA CHERYL WILLIAMSON - Interest Note: Undivided 1/48 interest - Certificate of Possession 403021712
WILFRED DOUGLAS MATTHEW - Interest Note: Undivided 9/48 interest - Certificate of Possession 403021709
MARTHA THERESA MATTHEW - Interest Note: Undivided 9/48 interest - Certificate of Possession 403021708
Estate of BERTHA DORENE ARNOLD - Interest Note: Undivided 1/48 interest - NETI

INSTRUMENTS REGISTERED AGAINST PIN: 902014355

Registration Number: 6077803
Reference Registration Number:
Instrument Date: 2013/07/12
Registration Date: 2014/04/14 4:05:31PM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **Admin Transfer**
Purpose:
OCPC:
IOGC:
Area: 0.000
Term:

Land Affected: Lot 77 CLSR 66587

Remarks: CTC OF APPOINTMENT OF ADMINISTRATOR FILED - REG #6076171

Grantor(s): Estate of RONALD GEORGE MATTHEW

Grantee(s): GERALDINE CELESTINE MATTHEW - Interest Note: Undivided 9/48 interest - Certificate of Possession 403022944

EASEMENTS/PERMITS AND RELATED INSTRUMENTS AFFECTING PIN: 902014355

(Blanket permits for utilities distribution are found in the Reserve General Report)

No Easements/Permits

--- END OF REPORT ---

Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Selected Criteria:
Registry: ILRS
Reserve: 07186 - NORTH THOMPSON NO. 1
Include Sub-surface Parcels: No

Printed on: 2015/12/17 6:18 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 64-2 RSBC 2126	Surface	902515850

Reserve: 07186 NORTH THOMPSON NO. 1

Previous Legal Description:

External Registry:

Plan Type & No:	PIN Status:	Province:
RSBC 2126	Active	BRITISH COLUMBIA

Retired Reason:

Retired by Registration No:

Band: 691 - Simpcw First Nation

PIN Hierarchy :

ROOT PIN(s)	902014378R LOT 64 CLSR 66587
FORMER PIN(s)	902014378R LOT 64 CLSR 66587

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Printed on: 2015/12/17 6:18 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 64-2 RSBC 2126	Surface	902515850

INSTRUMENTS REGISTERED AGAINST PIN: 902515850

Registration Number: 328085
Reference Registration Number:
Instrument Date: 2005/05/03
Registration Date: 2005/05/20 11:04:04AM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **Transfer**
Purpose:
OCPC:
IOGC:
Area:
Term:

Land Affected: LOT 64-2 RSBC 2126
Remarks:
Grantor(s): HELEN EUSTACHE
Grantee(s): 691 Simpcw First Nation

INSTRUMENTS REGISTERED AGAINST PIN: 902515850

Registration Number: 331469
Reference Registration Number:
Instrument Date: 2005/06/13
Registration Date: 2005/10/05 10:40:13AM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **BCR**
Purpose:
OCPC:
IOGC:
Area:
Term:

Land Affected: LOT 64-2 RSBC 2126
Remarks:
Grantor(s): 691 - Simpcw First Nation
Grantee(s): LOUISA JULES - Certificate of Possession 152657

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Printed on: 2015/12/17 6:18 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 64-2 RSBC 2126	Surface	902515850

INSTRUMENTS REGISTERED AGAINST PIN: 902515850

Registration Number:	Reference Registration Number:		Instrument Date:
6078743			2013/03/21
Registration Date:	**Effective Date:**	**Expiry Date:**	**Actual Expiry Date:**
2014/06/18 5:42:06PM			

Instrument Type: **Admin Transfer**

Purpose:

OCPC:	IOGC:	Area:	Term:	
		0.000		

Land Affected: LOT 64-2 RSBC 2126

Remarks:

Grantor(s): Estate of LOUISA JULES

Grantee(s): PIERRO ABEL JULES - Certificate of Possession 403023572

EASEMENTS/PERMITS AND RELATED INSTRUMENTS AFFECTING PIN: 902515850

(Blanket permits for utilities distribution are found in the Reserve General Report)

No Easements/Permits

--- END OF REPORT ---

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Selected Criteria:
Registry: ILRS
Reserve: 07186 - NORTH THOMPSON NO. 1
Include Sub-surface Parcels: No

Printed on: 2014/06/11 12:14 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 73 CLSR 66587	Surface	902009705

Reserve: 07186 NORTH THOMPSON NO. 1

Previous Legal Description:

External Registry:

Plan Type & No:	PIN Status:	Province:
CLSR 66587	Active	BRITISH COLUMBIA

Retired Reason:

Retired by Registration No:

Band: 691 - Simpcw First Nation

PIN Hierarchy :

INDIAN LANDS REGISTRY SYSTEM

Parcel Abstract Report

Sorted by: Legal Description / Instrument Date - Ascending

Printed on: 2014/06/11 12:14 PM

UNCLASSIFIED

Legal Description:	Parcel Type:	PIN:
LOT 73 CLSR 66587	Surface	902009705

INSTRUMENTS REGISTERED AGAINST PIN: 902009705

Registration Number: 248637
Reference Registration Number:
Instrument Date: 1996/11/25
Registration Date: 1997/01/13 1:09:49PM
Effective Date:
Expiry Date:
Actual Expiry Date:
Instrument Type: **BCR**
Purpose:
OCPC:
IOGC:
Area:
Term:

Land Affected: LOT 73 CLSR 66587
Remarks:
Grantor(s): 691 - Simpcw First Nation
Grantee(s): HYACINTH EUSTACHE - Certificate of Possession 119174

EASEMENTS/PERMITS AND RELATED INSTRUMENTS AFFECTING PIN: 902009705

(Blanket permits for utilities distribution are found in the Reserve General Report)

No Easements/Permits

--- END OF REPORT ---

APPENDIX 3

SPECIES AT RISK – PLANT SPECIES WITH POTENTIAL TO OCCUR IN THE IDF OR IDFXH2

Scientific Name	Common Name	BC List	COSEWIC	SARA
Allium geyeri var. *tenerum*	Geyer's onion		Blue	
Atriplex argentea ssp. *argentea*	silvery orache		Red	
Azolla mexicana	Mexican mosquito fern	T (Nov 2008)	Red	1-T (Jun 2003)
Berula erecta	cut-leaved water-parsnip		Blue	
Boechera microphylla	crevice suncress		Red	
Boechera sparsiflora	stretching suncress		Red	
Botrychium simplex var. *compositum*	least moonwort		Blue	
Bryoerythrophyllum columbianum	Columbian carpet moss	SC (Nov 2014)	Blue	1-SC (Jul 2005)
Bryum gemmiparum			Blue	
Carex heleonastes	Hudson Bay sedge		Blue	
Carex hystericina	porcupine sedge		Red	
Carex lenticularis	lakeshore sedge		Blue	
Castilleja cusickii	Cusick's paintbrush		Red	
Chamaerhodos erecta ssp. *nuttallii*	American chamaerhodos		Blue	
Chenopodium atrovirens	dark lamb's-quarters		Blue	
Coscinodon cribrosus			Red	
Crepis modocensis ssp. *modocensis*	low hawksbeard		Red	
Dryopteris cristata	crested wood fern		Blue	
Encalypta intermedia			Blue	
Encalypta spathulata			Blue	
Epipactis gigantea	giant helleborine	SC (May 1998)	Blue	3
Erythranthe breviflora	short-flowered monkey-flower		Blue	
Funaria muhlenbergii			Blue	
Gaura coccinea	scarlet gaura		Red	
Gayophytum humile	dwarf groundsmoke		Blue	
Hedeoma hispida	mock-pennyroyal		Red	
Hesperostipa spartea	porcupinegrass		Blue	
Hornungia procumbens	ovalpurse		Blue	
Juncus confusus	Colorado rush		Blue	
Leptosiphon septentrionalis	northern linanthus		Blue	

Scientific Name	*Common Name*	*BC List*	*COSEWIC*	*SARA*
Lupinus argenteus var. *laxiflorus*	silvery lupine		Red	
Lupinus bingenensis var. *subsaccatus*	Suksdorf's lupine		Red	
Lupinus sulphureus	sulphur lupine		Red	
Marsilea vestita	hairy water-clover		Red	
Melica spectabilis	purple oniongrass		Blue	
Navarretia intertexta	needle-leaved navarretia		Red	
Navarretia propinqua	near navarretia		Red	
Olsynium douglasii var. *inflatum*	satinflower		Red	
Ophioglossum pusillum	northern adder's-tongue		Blue	
Orobanche ludoviciana var. *arenosa*	Suksdorf's broomrape		Red	
Pinus albicaulis	whitebark pine	E (Apr 2010)	Blue	1-E (Jul 2012)
Poa fendleriana ssp. *fendleriana*	mutton grass		Red	
Polygonum polygaloides ssp. *kelloggii*	Kellogg's knotweed		Blue	
Pterygoneurum kozlovii	alkaline wing-nerved moss	T (Nov 2004)	Blue	1-T (Aug 2006)
Pyrola elliptica	shinleaf wintergreen		Blue	
Salix amygdaloides	peach-leaf willow		Red	
Salix boothii	Booth's willow		Blue	
Salix tweedyi	Tweedy's willow		Blue	
Schistidium heterophyllum			Blue	
Sphaeralcea coccinea	scarlet globe-mallow		Red	
Sphenopholis obtusata	prairie wedgegrass		Red	
Sporobolus compositus var. *compositus*	rough dropseed		Blue	
Stuckenia vaginata	sheathing pondweed		Blue	
Tortula obtusifolia			Blue	

APPENDIX 4

SPECIES AT RISK – ECOLOGICAL COMMUNITIES WITH POTENTIAL TO OCCUR IN THE IDF OR IDFXH2

Scientific Name	Common Name	Prov Status	BC List	Global Status	Occurs as/ in Site Series
Distichlis spicata var. *stricta Hervaceous Vegetation*	Alkali saltgrass Herbaceous Vegetation	S2	Red	GNR	IDFxh2/Gs01
Pseudotsuga menziesii – Pinus ponderosa / Calamagrostis rubescens	Douglas-fir – ponderosa pine / pinegrass	S3	Blue	GNR	IDFxh2/01; IDFxh2/05
Pseudotsuga menziesii – Pinus ponderosa / Pseudoroegneria spicata	Douglas-fir – ponderosa / bluebunch wheatgrass	S2	Red	GNR	IDFxh2/02; IDFxh2/03
Pseudotsuga menziesii – Pinus ponderosa / Pseudoroegneria spicata – Calamagrostis rubescens	Douglas-fir – ponderosa pine / bluebunch wheatgrass – pinegrass	S3	Blue	GNR	IDFxh2/04
Schoenoplectus acutus	Hard-stemmed bulrush Deep Marsh	S3	Blue	G5	IDFxh2/Wm06
Thuja plicata – Pseudotsuga menziesii / Cornus stolonifera	Western redcedar – Douglas-fir / red-osier dogwood	S3	Blue	GNR	IDFxh2/07
Typha latifolia	Common cattail Marsh	S3	Blue	G5	IDFxh2/Wm05

APPENDIX 5

SPECIES AT RISK – WILDLIFE SPECIES WITH POTENTIAL TO OCCUR IN THE IDF OR IDFXH2

Scientific Name	***Common Name***	***BC List***	***COSEWIC***	***SARA***
Acipenser transmontanus pop. 6	White Sturgeon (Middle Fraser River population)	E (Nov 2003)	Red	
Acrocheilus alutaceus	Chiselmouth	NAR (May 2003)	Blue	
Aeronautes saxatalis	White-throated Swift		Blue	
Anaxyrus boreas	Western Toad	SC (Nov 2012)	Blue	1-SC (Jan 2005)
Ardea herodias herodias	Great Blue Heron, herodias subspecies		Blue	
Asio flammeus	Short-eared Owl	SC (Mar 2008)	Blue	1-SC (Jul 2012)
Athene cunicularia	Burrowing Owl	E (Apr 2006)	Red	1-E (Jun 2003)
Buteo swainsoni	Swainson's Hawk		Red	
Catherpes mexicanus	Canyon Wren	NAR (May 1992)	Blue	
Catostomus platyrhynchus	Mountain Sucker	SC (Nov 2010)	Blue	
Chondestes grammacus	Lark Sparrow		Blue	
Chrysemys picta pop. 2	Painted Turtle - Intermountain - Rocky Mountain Population	SC (Apr 2006)	Blue	1-SC (Dec 2007)
Coluber constrictor	North American Racer	SC (Nov 2004)	Blue	1-SC (Aug 2006)
Contia tenuis	Sharp-tailed Snake	E (Nov 2009)	Red	1-E (Jun 2003)
Contopus cooperi	Olive-sided Flycatcher	T (Nov 2007)	Blue	1-T (Feb 2010)
Corynorhinus townsendii	Townsend's Big-eared Bat		Blue	
Crotalus oreganus	Western Rattlesnake	T (May 2015)	Blue	1-T (Jul 2005)
Cypseloides niger	Black Swift	E (May 2015)	Blue	
Dolichonyx oryzivorus	Bobolink	T (Apr 2010)	Blue	
Eremophila alpestris merrilli	Horned Lark, merrilli subspecies		Blue	

Scientific Name	***Common Name***	***BC List***	***COSEWIC***	***SARA***
Euderma maculatum	Spotted Bat	SC (Nov 2014)	Blue	1-SC (Jul 2005)
Euphagus carolinus	Rusty Blackbird	SC (Apr 2006)	Blue	1-SC (Mar 2009)
Falco mexicanus	Prairie Falcon	NAR (May 1996)	Red	
Falco peregrinus anatum	Peregrine Falcon, anatum subspecies	SC (Apr 2007)	Red	1-SC (Jun 2012)
Gulo gulo luscus	Wolverine, luscus subspecies	SC (May 2014)	Blue	
Hirundo rustica	Barn Swallow	T (May 2011)	Blue	
Megascops kennicottii macfarlanei	Western Screech-Owl, macfarlanei subspecies	T (May 2012)	Red	1-E (Jan 2005)
Melanerpes lewis	Lewis's Woodpecker	T (Apr 2010)	Blue	1-T (Jul 2012)
Myotis ciliolabrum	Western Small-footed Myotis		Blue	
Myotis thysanodes	Fringed Myotis	DD (May 2004)	Blue	3 (Mar 2005)
Numenius americanus	Long-billed Curlew	SC (May 2011)	Blue	1-SC (Jan 2005)
Oreoscoptes montanus	Sage Thrasher	E (Nov 2010)	Red	1-E (Jun 2003)
Ovis Canadensis	Bighorn Sheep		Blue	
Pekania pennant	Fisher		Blue	
Perognathus parvus	Columbia Plateau Pocket Mouse		Blue	
Pituophis catenifer deserticola	Gopher Snake, deserticola subspecies	T (Apr 2013)	Blue	1-T (Jan 2005)
Podiceps nigricollis	Eared Grebe		Blue	
Psiloscops flammeolus	Flammulated Owl	SC (Apr 2010)	Blue	1-SC (Jun 2003)
Recurvirostra americana	American Avocet		Blue	

Scientific Name	***Common Name***	***BC List***	***COSEWIC***	***SARA***
Salvelinus confluentus	Bull Trout	SC (Nov 2012)	Blue	
Spea intermontana	Great Basin Spadefoot	T (Apr 2007)	Blue	1-T (Jun 2003)
Sphyrapicus thyroideus	Williamson's Sapsucker	E (May 2005)	Blue	1-E (Aug 2006)
Taxidea taxus	American Badger	E (Nov 2012)	Red	1-E (Jun 2003)
Tympanuchus phasianellus columbianus	Sharp-tailed Grouse, columbianus subspecies		Blue	
Ursus arctos	Grizzly Bear	SC (May 2002)	Blue	

APPENDIX 6

SITE PHOTOGRAPHS

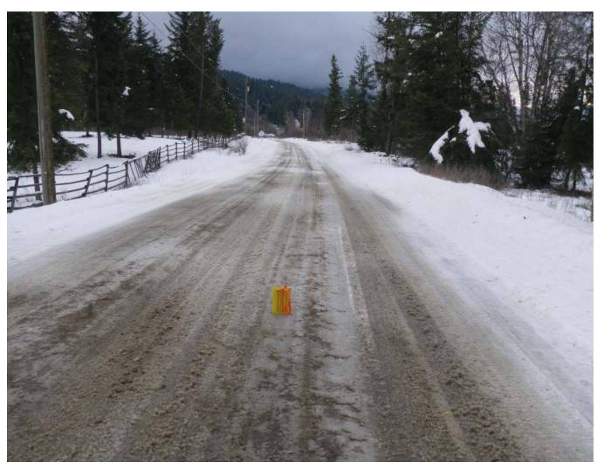
Photographs 1 and 2. North view of Dunn Lake Rd. at Point of Commencement of Survey, North View of manmade sump on West side of Dunn Lake Road


Photographs 3 and 4. View East of Wetland. North View of access roads to Subject Property.


Photographs 5 and 6. West view of Subject Property with shop and vehicles/equipment. East view of refuelling station on Subject Property.


Photographs 7 and 8. View south of Subject Property on east side of Dunn Lake Road. North view subject property on east side of Dunn Lake Road.


Photographs 9 and 10. View east of entrance to transfer station. View east of mineral lick approximately 4 m from Dunn Lake Road.

Photographs 11 and 12. View west, inlet of culvert at Newhykulston Creek. View South of Point of Termination, north end of North Thompson Indian Reserve No.1 (Simpcw First Nation).

APPENDIX 7

OLD SAWMILL SITE INVESTIGATION QUESTIONNAIRES

January 15, 2016

ESTSÉK' ENVIRONMENTAL SERVICES LLP

Log Yard Site Investigation - Questionnaire

PROPERTY OWNER INFORMATION

Organization/Person Name: Sam Phillips, Simpcw Resources LLP (SRLLP SRG) (General manager) (previous role: assisted in dismantling of Simpcw Development Corp.)

Address: Po Box 1287, 416 Dunn Lake Rd.

City: Barriere, BC V0E 1E0

Date of occupancy (if applicable): Simpcw Dev. Corp: 1992-2008 SRLLP/SRG: 2013-Present

Describe the organization and site use (historic site use and present site use including dates when current land use began): Historically site was used as a small sawmill (Simpcw Development Corp), cutting larger diameter wood, shop on W. side of DLR originally built for finger jointing plant (but never came to fruition). Currently the site is utilized as SRG Admin offices. Current to sawmill was a residential home.

UNIT INFORMATION

NOTE: DLR = Dunn Lake Road SFN = Simpcw First Nation

Describe the general condition of the property (i.e. current land use, surrounding land use, activities conducted on the property, stains, spills etc). Shop on W. side of DLR: leased to logging/const company owned by SFN member: equipment storage/maintenance. SRG Administration offices & vehicle storage. No maintenance/mechanical work on East property side of DLR by SRG. East side of property there is one fuel tank

Describe the drainage patterns of the property, if any (i.e. watercourses, drainage ditches, settling ponds, creeks etc.) South of SRG: Skowootum Cr., crosses DLR; drainage into N.T. (North Thompson) River. Identified watershed above SRG Admin offices on E side (report previously completed by TOLKO on this watershed), no other creeks, or water bodies exist on property

Are there any known environmental issues associated with the unit/building/property?

Yes ☐ No ☐ Unknown ☑ N/A ☐

If yes, please specify: Previous use would lead him to believe there could be issues. Thompson Rivers University previously recontoured site + removed old buildings. No old material (wood chips) were removed from when sawmill was on property. Wood chips were spread and utilized in recontouring of site. There was an older refuelling container/unit removed and replaced with newer tank.

Are there any major sources of noise and vibration on the property?

Yes ☐ No ☑ Unknown ☐ N/A ☐

If yes, please specify: Note: railroad traffic noise.

Are any hazardous wastes generated on site? Please note both historic and present information.

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify (i.e. nature, quantity, fate): Refuelling station, historically potential petroleum contaminants from Old Sawmill. •Simpcw Development Equipment: 2 Kodiac Saws, frontend loader, fuel storage, pick up trucks, first Aid unit + logging trucks delivering logs to mill.

Does the organization have wastewater treatment systems and controls on discharge to municipal sewers?

Yes ☐ No ☑ Unknown ☐ N/A ☐

Please specify: Current: Septic System

Past: Residential Home, unsure how system was taken care of.

Are the organization's shipping facilities and protocols required to be in compliance with the requirements of the Transportation of Dangerous Goods Act?

Yes ☐ No ☑ Unknown ☐ N/A ☐

No transportation of any dangerous goods.

Has the organization developed safety plans, emergency response or contingency plans?

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify (i.e. provide title and availability for review): Simpcw Resources LLP has Spill Response Plan, Safety Plans: trucks equipped w Spill kits Unaware of spill abatement for existing refuelling station that is rented by Simpcw member/ company.

ACTIVITIES INFORMATION

Are there Certificates of Approval or related regulatory documents or permits that may impose conditions on various aspects of the organization's operation?

Yes ☐ No ☑ Unknown ☐ N/A ☐

If yes, please specify: Property leased by Simpcw Resources LLP from Simpcw First Nation (SFN)

Are there any hazardous materials used on the property? If applicable, explain historic use of hazardous materials used on property. Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify (i.e. nature, quantity, frequency of use): Historically the sawmill used hazardous material (fuel, hydraulic oil etc) Presently: work trucks & refuelling station

Are there any hazardous materials currently stored on the property?

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify (i.e. nature, quantities, method of storage): Refuelling station leased by SFN member/Co.
Capacity:
no pesticides, fertilizers or related hazards stored on site

Is there any mechanical equipment used or stored on the property?

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify: UTV, chainsaws, generators, light towers, vehicles, chipper unit, snowmobiles, small pumps, brush saws/weed eaters

January 29, 2016

ESTSÉK' ENVIRONMENTAL SERVICES LLP

Log Yard Site Investigation - Questionnaire

PROPERTY OWNER INFORMATION

Organization/Person Name: Nathan Matthew, Previous. General Mgr, Simpcw Dev. Corp. chairman of the Brd & chief

Address: P.O. Box 220

City: Barriere, BC V0E 1E0 Phone: 250 851 6054

Date of occupancy (if applicable): Simpcw Dev. Corp (Sawmill) started: 1992-2008 operation time.

Describe the organization and site use (historic site use and present site use including dates when current land use began): Began in 1992 as a sawmill (Simpcw Development Corp.)

Onsite: Log decks, chipper, filing operation, lumber product piles, site was supplied w electrical power, loaders, logging trucks & semi trucks came & went from site. No diesel power used. Deborker machine. Fuel Station site, greenchain, infeeds & rollers were all used.

UNIT INFORMATION

Describe the general condition of the property (i.e. current land use, surrounding land use, activities conducted on the property, stains, spills etc)

Does not recall any spills, over the years could have been leakages of transmission & engine oil. Crews changed own oil filters on site, did not just drain it onto the ground. Greenchain had to have regular greasing & oiling so was some residue under those sites.

Was sure there were hydraulic lines that ruptured and would have been a significant contribution to contamination

Describe the drainage patterns of the property, if any (i.e. watercourses, drainage ditches, settling ponds, creeks etc.)

There were none of these on the site (watercourses, ditches, ponds etc.)

The only watersource was at the South end of sawmill site

Active septic field for offices

Are there any known environmental issues associated with the unit/building/property?

Yes ☐ No ☑ Unknown ☐ N/A ☐

If yes, please specify: ____________________

ESTSÉK' ENVIRONMENTAL SERVICES LLP

Log Yard Site Investigation - Questionnaire

Are there any major sources of noise and vibration on the property?

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify: Chipper was loud, machines (loader) and head saw were loud. all noise/vibration was historical. Present day: no major noise/vibration issues.

Are any hazardous wastes generated on site? Please note both historic and present information.

Yes ☐ No ☑ Unknown ☐ N/A ☐

If yes, please specify (i.e. nature, quantity, fate):

Does the organization have wastewater treatment systems and controls on discharge to municipal sewers?

Yes ☐ No ☐ Unknown ☐ N/A ☑

Please specify: Septic system, domestic water/waste utilized the septic system. Was not connected to the Bands sewer system

Are the organization's shipping facilities and protocols required to be in compliance with the requirements of the Transportation of Dangerous Goods Act?

Yes ☑ No ☐ Unknown ☐ N/A ☐

the products shipped were wood products.

Has the organization developed safety plans, emergency response or contingency plans?

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify (i.e. provide title and availability for review): the site was regularly inspected by WCB. Safety lock-outs were in place. Crew training was provided & kept up to date as per the regulations.

Everyone was very concious of the monitoring & policies.

ACTIVITIES INFORMATION

Are there Certificates of Approval or related regulatory documents or permits that may impose conditions on various aspects of the organization's operation?

Yes ☐ No ☐ Unknown ☐ N/A ☑

If yes, please specify:

Are there any hazardous materials used on the property? If applicable, explain historic use of hazardous materials used on property. Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify (i.e. nature, quantity, frequency of use): Fuel station (fence was built around tank met the requirements) hydraulic oil, grease, diesel fuel. Certain over the years there were small leaks & hose breakages with spills that caused contamination around the mill property.

Are there any hazardous materials currently stored on the property?

Yes ☐ No ☐ Unknown ☑ N/A ☐

If yes, please specify (i.e. nature, quantities, method of storage): There were no major spills, more than 100 L, spills would have been under the reportable limits.

Is there any mechanical equipment used or stored on the property?

Yes ☑ No ☐ Unknown ☐ N/A ☐

If yes, please specify: Previously stated under Property Owner Information. On the East side of Simpcw Dev. Corp. Adjacent to Dunn Lk Rd, clean wood chips were stockpiled: the chips were marketable and could not have any oil etc., on the NE end above Dunn Lake Rd. was a waste pile where reject lumber, log ends, contaminated chips were piled.