CONTRACT # EN13TAB010

FISH PASSAGE CULVERT INVESTIGATIONS

Babine TSA

Prepared By:
MarLim Ecological Consulting Ltd.

February 2013

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THE CONTENTS OF THIS REPORT ARE MEANT TO PROVIDE A SUMMARY OF THE FISH PASSAGE CULVERT INVESTIGATIONS COMPLETED BY MARLIM ECOLOGICAL CONSULTING LTD. BETWEEN SEPTEMBER AND NOVEMBER 2012, FOR BURNS LAKE CONTRACT # EN13TAB010. ANY CHANGES SINCE THE DOCUMENTED DATE OF THE LAST SITE VISIT ON ***NOVEMBER 11, 2012*** *ARE NOT ACCOUNTED FOR IN THIS REPORT. THE CONTENTS OF THIS REPORT SHOULD NOT BE SUBSTANTIALLY MODIFIED WITHOUT PRIOR CONSENT FROM MARLIM ECOLOGICAL CONSULTING LTD. THIS IS TO ENSURE THAT THE INTEGRITY OF THE DATA AND ANY OBSERVATIONS MADE IN THIS REPORT ARE MAINTAINED. A COMPLETE COPY OF THIS REPORT HAS BEEN RETAINED IN THE OFFICES OF MARLIM ECOLOGICAL CONSULTING LTD. FOR FUTURE REFERENCE.*

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EXECUTIVE SUMMARY

Marlim Ecological Consulting Ltd. completed a Fish Passage Culvert Investigation (FPCI) in the Babine Timber Sales Area, Bulkley Watershed Group, for BC Timber Sales. This project involved the assessment of all designated fish-streams crossings in the study area to determine which stream crossing structures were barriers and preventing fish passage. Recommendations were made for each stream crossing structure and ten sites were selected and recommended for restoration projects. The site assessments involved obtaining standardized information at each location and keeping photographic documentation for each site. The field data collected for all structures assessed on fish streams was entered and submitted into the Provincial Stream Crossing Inventory System (PSCIS). The PSCIS has a scoring system which automatically produces results when the data collected in the field is entered into the program. This scoring system determines whether a stream crossing structure is classified as unknown, passable, potential or barrier and aided in determining which sites were selected and recommended for restoration.

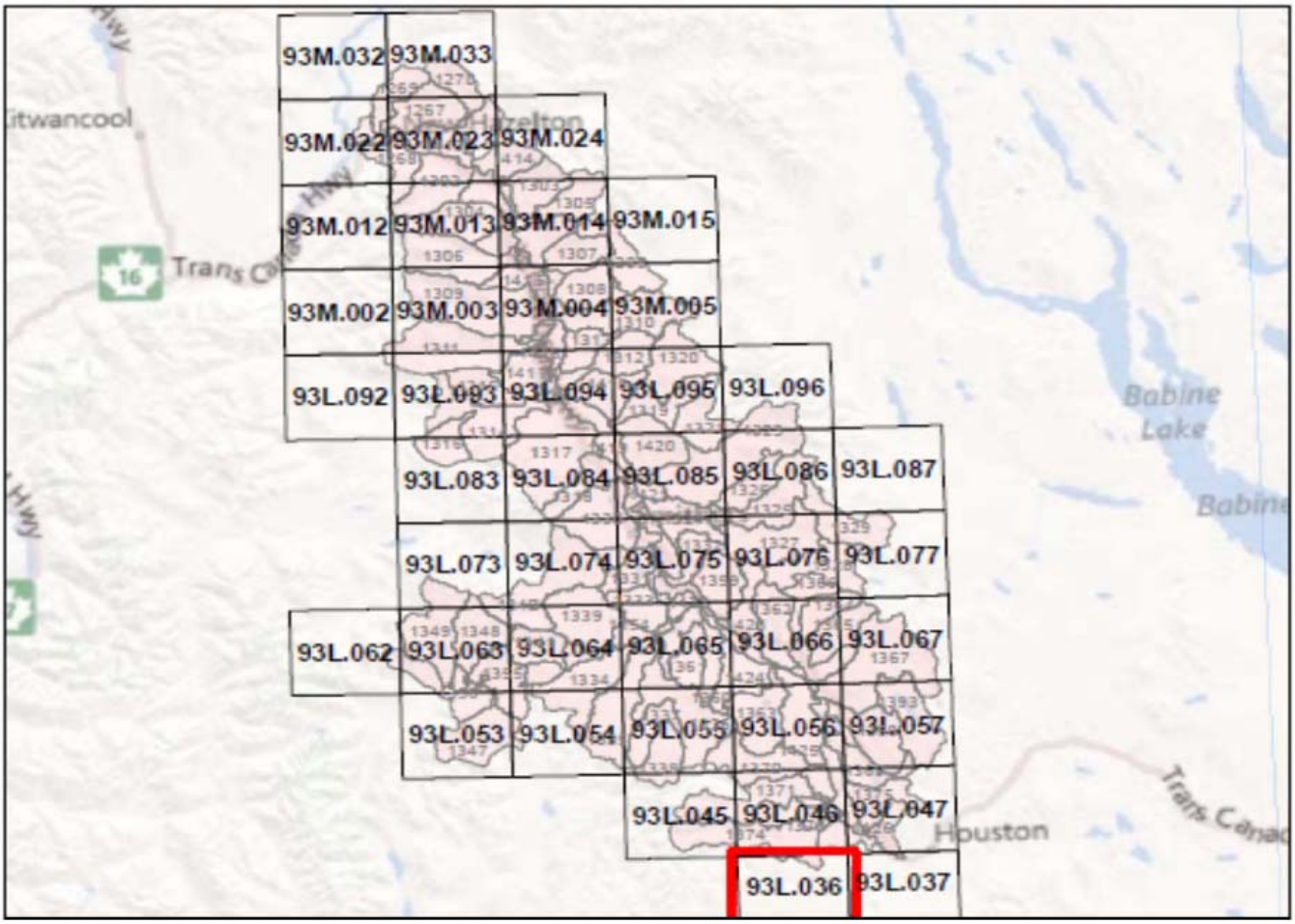
A total of 722 sites were visited and assessed throughout the duration of this study. Out of those, 126 sites did not exist. Photographs were taken at these sites to verify that while they were identified on the mapping provided, they were in fact non-existent.

A total of 89 stream crossings had open bottom structures in place, 81 bridges and 8 wood box culverts. A total of 373 stream crossings had closed bottom structures installed, 360 round culverts and 13 oval culverts. A total of 134 sites were classified as “other” and had fords in place at the stream crossing locations. Out of the 596 existing sites assessed, 109 were deemed passable. A total of 70 were classified as potential barriers to fish passage, 283 sites were confirmed barriers to fish passage and 134 sites were classified as unknown.

Following analysis of the crossing barrier results, ten stream crossing structures were selected and are being recommended to BC Timber Sales for restoration in this report.

STUDY AREA

The study area of this contract was the Babine Timber Sales Area, Bulkley Watersheds. The sites assessed were located on BC map sheets 93L and 93M. Sites assessed were in the area of Houston and Smithers, BC. Priority watersheds were selected from the general study area by the contract manager at BCTS. These watersheds were: 1374, 1373, 1371, 1370, 1426, 1369, 1318, 1317, 1314, 1316, 1315, 1417, 1324, 1325, 1327, 1326, 1313, 1312, 1330, 1323, 1319, 1320, 1331, 1362, 1423, 1422, 1334, 1335 and are outlined below on the study area map.



SCOPE OF WORKS COMPLETED

The scope of works completed is outlined in the table below:

Table 1: Overall Summary of Sites for Burns Lake FPCI - 2012 Work

****NOTE: As the mapsheets overlap significantly along the edges, overlapping numbers have been counted on the mapsheet with the largest area of the subject watershed, and not on adjacent mapsheets.****

Watershed #	Mapsheet #	# of Sites Mapped	# of Mapped Sites Assessed	# of Unmapped Sites Assessed	# of Sites Confirmed Inaccessible	# of Sites Remaining
1374	93L.046	19	19	2	0	0
1373	93L.046	11	11	0	0	0
1371	93L.046	7	6	4	1	0
1370	93L.056	20	16	1	4	0
1426	93L.056	5	5	0	0	0
	93L.046	2	2	0	0	0
	93L.047	10	10	1	0	0
1369	93L.056	2	2	0	0	0
	93L.057	2	1	0	1	0
	93L.047	18	18	0	0	0
1318	93L.084	8	8	4	0	0
	93L.085	2	2	0	0	0
1317	93L.084	19	19	15	0	0
	93L.094	45	45	3	0	0
1314	93L.094	13	13	0	0	0
	93L.093	54	52	9	2	0
1316	93L.093	23	13	2	10	0
	93L.083	4	0	0	4	0
1315	93L.093	28	27	10	1	0
	93L.094	5	5	0	0	0
1417	93L.093	0	0	0	0	0
	93L.094	24	19	7	5	0
	93M.004	8	8	0	0	0
1324	93L.085	19	19	5	0	0
	93L.075	17	13	2	4	0
1325	93L.085	2	2	0	0	0
	93L.086	14	14	4	0	0
	93L.076	7	7	2	0	0
1327	93L.076	88	75	8	13	0
	93L.086	4	0	0	0	4
1326	93L.086	16	16	2	0	0
1313	93L.094	17	17	0	0	0
	93M.004	13	13	4	0	0
1312	93L.094	19	19	0	0	0
	93L.095	18	17	1	1	0
	93M.005	2	2	0	0	0
1330	93L.084	21	19	2	2	0
	93L.085	22	19	2	0	3
	93L.074	1	0	0	1	0
	93L.075	9	8	3	1	0
1323	93L.085	39	12	0	0	27
	93L.086	14	0	0	0	14
1319	93L.095	19	18	0	1	0
1320	93L.095	26	26	4	0	0
1331	93L.075	35	1	0	0	34
1362	93L.066	38	2	0	0	36
	93L.076	3	0	0	0	3
1423	93L.065	3	2	0	0	1
	93L.076	4	0	0	0	4
	93L.066	30	13	0	0	17
1422	93L.065	3	0	0	0	3
	93L.075	12	0	0	0	12
1334	93L.054	12	0	0	0	12
	93L.065	14	1	0	0	13
	93L.064	65	0	0	0	65
1335	93L.065	23	1	0	0	22
	93L.054	11	0	0	0	11
	93L.055	2	0	0	0	2
TOTAL:		**971**	**637**	**97**	**51**	**283**

METHODS

Full size hardcopy maps and PDF copies of the map sheets for the study area were obtained from BC Timber Sales Burns Lake office. Road and stream layers for ArcGIS were requested at a later time and obtained through the Ministry of Forests, Lands & Natural Resource Operations (MoFLNRO).

The methodology followed for this survey follows the methods described in the Field Assessment for Determining Fish Passage Status of Closed Bottom Structures, which is the standardised methodology for FPCI surveys. The scoring and data collection sheets from the document have been included in Appendix IV.

A photographic log was kept throughout the duration of the survey, to provide an accurate and standardized record of the physical characteristics of each stream crossing and crossing structure. A minimum of five photos were taken at each crossing structure site which included photos of the stream in the upstream and downstream direction from the crossing structure taken outside the influence of the road, a photo of the barrel of the structure and a photo of the inlet and outlet. Additional photos were taken if necessary to document additional or unusual features at the site such as beaver activity.

Stream widths were determined by recording and averaging the width of three locations on the downstream end of the crossing structure, the locations being the most representative of the channel configuration. The measurements were taken from the high water mark on both banks.

Stream gradient was determined using a clinometer. This measurement was taken on the downstream end of the crossing structure and on the longest sighting within the stream reach as possible. Culvert gradient was also measured using a clinometer, the sighting taken through the barrel of the culvert on the downstream end.

Other information recorded during each crossing assessment included UTM coordinates, stream and road name, crossing type, culvert diameter and length, inlet and outlet drop, habitat value and recommendations for the crossing structure. Each crossing structure assessed was marked using

Following completion of field assessments, all data was entered into the PSCIS excel data template, and submitted to the PSCIS database along with the photographs from each site. The barrier classifications produced by the scoring matrix were used in conjunction with site notes and photographs to select the ten sites which would provide the most benefit from remediation. The ten sites recommended in this report were selected based on fisheries habitat value (limited to the immediate vicinity upstream and downstream from the crossing), barrier severity, upstream habitat gained if fish passage is restored, and cost of crossing structure replacement.

RESULTS

In all, 722 mapped sites were assessed through this contract. Tables 1 and 2 below outline the total number of sites assessed by each structure type and subtype, as well as the scoring matrix barrier classifications. Of the 722 sites assessed, 89 were Open Bottom Structures (OBS) 81 bridges and 8 wood box culverts, 373 were Closed Bottom Structures (CBS) 360 round culverts, and 13 oval culverts, 134 were Other (fords), and 126 did not exist (DNE).

Table 2: Structures Assessed

Structure Type	Structure Subtype	# Assessed	Total	%
Open Bottom Structure	Bridge	81		
	Wood Box Culvert	8	89	12
Closed Bottom Structure	Round Culvert	360		
	Oval Culvert	13	373	52
Other	Ford	134	134	19
Do Not Exist	No Crossing at or Near Mapped Location	126	126	17
	Total		722	100

Of the 89 OBS assessed, all structures were classed as Passable by the scoring matrix; however, 4 of the bridges are either starting to fall apart, or are creating debris jams at the supports. This debris was considered to be causing the structures to be barriers. In addition, 4 of the wood box culverts were in fact log and earth crossing structures which were complete barriers to fish passage. These crossings were classified as wood box culverts as there is no suitable option to enter for log and earth structures in the data template.

Of the 373 CBS assessed, 17 of the round culverts were classed as Passable by the matrix, while 3 of the oval culverts were classed as Passable. 68 round culverts and 2 oval culverts were classed as Potential barriers, while 275 round culverts and 8 oval culverts were classed as Barriers.

All ford structures assessed were classified as Unknown by the scoring matrix; however, 14 of the ford crossings had significant debris jams which were creating barriers to fish passage.

Table 3: Assessment Statistics

Structure Type	Structure Subtype	# Existing Assessed	Passable	Potential	Barrier	Unknown
Open Bottom Structure	Bridge	81	81*	-	-	-
	Wood Box Culvert	8	8**	-	-	-
Closed Bottom Structure	Round Culvert	360	17	68	275	-
	Oval Culvert	13	3	2	8	-
Other	Ford	134	-	-	-	134***
	Total	596	109	70	283	134
	%		18	12	48	22

*All 81 bridges were classed as Passable by the FPCI spreadsheet; however, 4 of these had significant debris built up that was creating a barrier.

**All 8 wood box culverts were classed as Passable by the FPCI spreadsheet; however, 4 of these had logs that were creating barriers.

***All 134 fords were classed as Unknown by the FPCI spreadsheet; however, 14 of these had significant debris built up that was creating a barrier.

The following paragraphs contain detailed summaries of the ten sites selected for removal or replacement from the results of this contract. Tables 3 and 4 below summarize the results of the assessment results of the ten structures. The order in which the crossing structures are presented and described does not indicate any priority for replacement.

Table 4: Assessment Perameters

Row	My Crossing Reference	Crossing Type	Crossing Subtype	Diameter or Span (meters)	Length or Width (meters)	Continuous Embeddedment? Yes/No	Resemble Channel? Yes / No	Backwatered? Yes / No	Fill Depth (meters)	Outlet Drop (meters)	Outlet Pool Depth (0.01m)	Inlet Drop? Yes / No	Culvert Slope (%)	Downstream Channel Width (meters)	Stream Slope (%)	Beaver Activity? Yes / No	Fish Observed? Yes / No	Valley Fill	Habitat Value
1	Marlim 284401	Closed Bottom Structure	Round Culvert	1.40	21.00	No	No	No	3.20	0.7	0.10	No	9.00	1.40	10	No	No	Deep Fill	Medium
2	Marlim 284403	Closed Bottom Structure	Round Culvert	1.40	14.00	No	No	No	2.10	0.13	0.07	Yes	7.00	2.63	7	No	No	Deep Fill	High
3	Marlim 286177	Closed Bottom Structure	Oval Culvert	1.90	14.00	No	No	No	0.50	0.27	0.63	No	2.00	3.00	4	No	No	Deep Fill	High
4	Marlim 286185	Closed Bottom Structure	Oval Culvert	2.20	15.40	No	No	No	1.30	0.25	0.45	No	2.00	6.16	4	No	No	Deep Fill	High
5	Marlim 286397	Closed Bottom Structure	Round Culvert	1.40	14.20	No	No	No	1.70	0.27	0.13	No	6.00	1.03	10	No	No	Deep Fill	High
6	Marlim 286513	Closed Bottom Structure	Oval Culvert	1.40	16.30	No	No	No	1.75	0.17	0.24	Yes	7.00	3.05	13	No	No	Deep Fill	High
7	Marlim 286528	Closed Bottom Structure	Round Culvert	1.63	18.50	No	No	No	2.50	0.6	0.33	No	5.00	2.95	11	No	No	Shallow Fill	High
8	Marlim 286592	Closed Bottom Structure	Round Culvert	0.80	14.00	No	No	No	1.00	0	0.25	Yes	3.50	2.06	4	No	No	Deep Fill	High
9	Marlim 286649	Closed Bottom Structure	Round Culvert	0.90	13.00	No	No	No	1.40	0	0.00	No	3.00	2.91	3	No	No	Deep Fill	High
10	Marlim 286967	Closed Bottom Structure	Round Culvert	1.00	11.00	No	No	No	0.75	0.47	0.54	No	3.00	1.60	3	No	Yes	Deep Fill	High

Table 5: Scoring Matrix

Row	My Crossing Reference	Stream Width Ratio	Culvert Length Score	Embed Score	Outlet Drop Score	Culvert Slope Score	Stream Width Ratio Score	Final Score	Barrier Result
1	Marlim 284401	1.00	3	10	10	10	3	36	Barrier
2	Marlim 284403	1.88	0	10	0	10	6	26	Barrier
3	Marlim 286177	1.58	0	10	5	5	6	26	Barrier
4	Marlim 286185	2.80	3	10	5	5	6	29	Barrier
5	Marlim 286397	0.74	0	10	5	10	0	25	Barrier
6	Marlim 286513	2.18	3	10	5	10	6	34	Barrier
7	Marlim 286528	1.81	3	10	10	10	6	39	Barrier
8	Marlim 286592	2.58	0	10	0	10	6	26	Barrier
9	Marlim 286649	3.23	0	10	0	10	6	26	Barrier
10	Marlim 286967	1.60	0	10	10	10	6	36	Barrier

TRIBUTARY TO OWEN CREEK

MAP NO.: 284401 **MARLIM NO.:** MARLIM 284401

STREAM NAME: TRIBUTARY TO OWEN CREEK **ROAD NAME:** UNNAMED FSR

UTM COORDINATES: ZONE 9N 605736E 6085891N

Marlim Site No.: 284401 was assessed on October 1st 2012. The site was located at 2.30km on an unnamed forest service road in the Babine Timber Sales Area, Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (round culvert) with a diameter of 1.40m, a length of 21.0m and a gradient of 9.0%. This culvert was not embedded and had a fill depth of 3.20m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was no inlet drop however there was an outlet drop of 0.70m.

The stream had an average channel width of 1.40m and a gradient of 10.0%. The outlet pool depth was 0.10m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had medium habitat value.

Photo 4: Marlim 284401

Description: Outlet

Direction: Upstream

TRIBUTARY TO TROUT CREEK

MAP NO.: 284403 **MARLIM NO.:** MARLIM 284403

STREAM NAME: TRIBUTARY TO TROUT CREEK **ROAD NAME:** R10836 608A-5

UTM COORDINATES: ZONE 9N 603569E 6085549N

Marlim Site No.: 284403 was assessed on October 2nd, 2012. The site was located at 2.40km on R10836 608A-5 in the Babine Timber Sales Area Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (round culvert) with a diameter of 1.40m, a length of 14.00m and a gradient of 7.0%. This culvert was not embedded and had a fill depth of 2.10m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was an inlet drop of 0.30m and an outlet drop of 0.13m.

The stream had an average channel width of 2.63m and a gradient of 7.0%. The outlet pool depth was 0.07m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 9: Marlim 284403

Description: Outlet

Direction: Upstream

TRIBUTARY TO GRAMOPHONE CREEK

MAP NO.: 286177 **MARLIM NO.:** MARLIM 286177

STREAM NAME: TRIBUTARY TO GRAMOPHONE CREEK **ROAD NAME:** TELKWA HIGH ROAD

UTM COORDINATES: ZONE 9N 609660E 6093554N

Marlim Site No.: 286177 was assessed on October 4th, 2012. The site was located at 5.90km on Telkwa High Road in the Babine Timber Sales Area Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (oval culvert) with a diameter of 1.90m, a length of 14.00m and a gradient of 2.0%. This culvert was not embedded and had a fill depth of 0.50m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was no inlet drop however there was an outlet drop of 0.27m.

The stream had an average channel width of 3.00m and a gradient of 4.0%. The outlet pool depth was 0.63m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 14: Marlim 286177

Description: Outlet

Direction: Upstream

TRIBUTARY TO GRAMOPHONE CREEK

MAP NO.: 286185 **MARLIM NO.:** MARLIM 286185

STREAM NAME: TRIBUTARY TO GRAMOPHONE CREEK **ROAD NAME:** TELKWA HIGH ROAD

UTM COORDINATES: ZONE 9N 609726E 6092873N

Marlim Site No.: 286185 was assessed on October 4th, 2012. The site was located at 6.60km on Telkwa High Road in the Babine Timber Sales Area Bulkley Watershed Group**.**

There were two crossing structures at this site, which were both closed-bottom structures (oval culverts). Pipe #1 had a diameter of 2.20m, a length of 15.40m and a gradient of 2.0%. This culvert was not embedded and had a fill depth of 1.30m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was no inlet drop however there was an outlet drop of 0.25m. Pipe #2 had a diameter of 1.90m, a length of 15.00m and a gradient of 0%. There was no inlet drop, and no outlet drop for Pipe #2. The tables included (as submitted to PSCIS) contain data for both culverts combined as per data entry requirements.

The stream had an average channel width of 6.16m and a gradient of 4.0%. The outlet pool depth was 0.45m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 20: Marlim 286185

Description: Outlet

Direction: Upstream

TRIBUTARY TO OWEN CREEK

MAP NO.: 286397 **MARLIM NO.:** MARLIM 286397

STREAM NAME: TRIBUTARY TO OWEN CREEK **ROAD NAME:** UNNAMED FSR

UTM COORDINATES: ZONE 9N 606298E 6085891N

Marlim Site No.: 286397 was assessed on October 1st, 2012. The site was located at 3.20km on an unnamed forest service road in the Babine Timber Sales Area, Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (round culvert) with a diameter of 1.40m, a length of 14.20m and a gradient of 6.0%. This culvert was not embedded and had a fill depth of 1.70m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was no inlet drop however there was an outlet drop of 0.27m.

The stream had an average channel width of 1.03m and a gradient of 10.0%. The outlet pool depth was 0.13m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 25: Marlim 286397

Description: Outlet

Direction: Upstream

TRIBUTARY TO DRIFTWOOD CREEK

MAP NO.: 286513 **MARLIM NO.:** MARLIM 286513

STREAM NAME: TRIBUTARY TO DRIFTWOOD CREEK **ROAD NAME:** ADAMS ROAD

UTM COORDINATES: ZONE 9N 623406E 6079516N

Marlim Site No.: 286513 was assessed on October 24th, 2012. The site was located at 2.80km on Adams Road in the Babine Timber Sales Area Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (oval culvert) with a diameter of 1.40m, a length of 16.30m and a gradient of 7.0%. This culvert was not embedded and had a fill depth of 1.75m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was an inlet drop of 0.02m and an outlet drop of 0.17m.

The stream had an average channel width of 3.05m and a gradient of 13.0%. The outlet pool depth was 0.24m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 30: Marlim 286513

Description: Outlet

Direction: Upstream

TRIBUTARY TO DRIFTWOOD CREEK

MAP NO.: 286528 **MARLIM NO.:** MARLIM 286528

STREAM NAME: TRIBUTARY TO DRIFTWOOD CREEK **ROAD NAME:** BABINE LAKE ROAD

UTM COORDINATES: ZONE 9N622537E 6078562N

Marlim Site No.: 286528 was assessed on October 23rd, 2012. The site was located at 4.60km on Babine Lake Road in the Babine Timber Sales Area Bulkley Watershed Group**.**

There were two crossing structures at this site, which were both closed-bottom structures (round culverts). Pipe #1(culvert with the lowest elevation) had a diameter of 0.75m, a length of 18.50m and a gradient of 4.5%. This culvert was not embedded and had a fill depth of 2.62m. The substrate inside both culverts did not resemble the substrate characteristics of the streambed. and both culverts were not backwatered. There was no inlet drop however there was an outlet drop of 0.29m. Pipe #2 had a diameter of 0.90m, a length of 18.50m and a gradient of 5.0%. This culvert was not embedded and had a fill depth of 2.39m. There was no inlet drop however there was an outlet drop of 0.60m.The tables included as submitted to PSCIS contain data for the lowest culvert as per data entry requirements.

The stream had an average channel width of 2.95m and a gradient of 11.0%. The outlet pool depth was 0.33m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was shallow. It was determined that this stream had high habitat value.

Photo 37: Marlim 286528

Description: Outlet

Direction: Upstream

TRIBUTARY TO SIMPSON CREEK

MAP NO.: 286592 **MARLIM NO.:** MARLIM 286592

STREAM NAME: TRIBUTARY TO SIMPSON CREEK **ROAD NAME:** NELSON ROAD

UTM COORDINATES: ZONE 9N614279E 6075193N

Marlim Site No.: 286592 was assessed on October 14th, 2012. The site was located at 0.90km on Nelson Road in the Babine Timber Sales Area Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (round culvert) with a diameter of 0.80m, a length of 14.00m and a gradient of 3.5%. This culvert was not embedded and had a fill depth of 1.00m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was no outlet drop however there was an inlet drop.

The stream had an average channel width of 2.06m and a gradient of 4.0%. The outlet pool depth was 0.25m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 42: Marlim 286592

Description: Outlet

Direction: Upstream

GONAKWA CREEK

MAP NO.: 286649 **MARLIM NO.:** MARLIM 286649

STREAM NAME: GONAKWA CREEK **ROAD NAME:** UNNAMED FSR

UTM COORDINATES: ZONE 9N 631056E 6074362N

Marlim Site No.: 286649 was assessed on October 16th, 2012. The site was located at 1.20km on an unnamed forest service road in the Babine Timber Sales Area Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (round culvert) with a diameter of 0.90m, a length of 13.00m and a gradient of 3.0%. This culvert was not embedded and had a fill depth of 1.40m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered and there was no inlet or outlet drop.

The stream had an average channel width of 2.91m and a gradient of 3.0%. The outlet pool depth was 0.0m. There was no presence of beaver activity at this site and no fish were observed. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 50: Marlim 286649

Description: Outlet_2

Direction: Upstream

MCDOWELL CREEK

MAP NO.: 286967 **MARLIM NO.:** MARLIM 286967

STREAM NAME: MCDOWELL CREEK **ROAD NAME:** WOODMERE NURSERY ROAD

UTM COORDINATES: ZONE 9N 627643E 6060449N

Marlim Site No.: 286967 was assessed on November 10th, 2012. The site was located at 0.40km on Woodmere Nursery Road in the Babine Timber Sales Area Bulkley Watershed Group**.**

The crossing structure at this site was a closed-bottom structure (round culvert) with a diameter of 1.00m, a length of 11.00m and a gradient of 3.0%. This culvert was not embedded and had a fill depth of 0.75m. The substrate inside the culvert did not resemble the substrate characteristics of the streambed. The culvert was not backwatered. There was no inlet drop however there was an outlet drop of 0.47m.

The stream had an average channel width of 1.60m and a gradient of 3.0%. The outlet pool depth was 0.54m. There was no presence of beaver activity at this site however fry were observed in the outlet pool at the time of the assessment. The valley fill at the site was deep. It was determined that this stream had high habitat value.

Photo 55: Marlim 286967

Description: Outlet

Direction: Upstream

ANALYSIS AND RECOMMENDATIONS

The following paragraphs contain recommendations for the stream crossing structures assessed during the course of this study. It is important to note that all site assessments were completed during the fall, and stream characteristics may vary seasonally. Seasonal differences in channel flow will be important to determine prior to confirming that a recommended site is in fact a high priority for replacement. In addition, fish sampling has not been carried out to confirm fish presence at any of the recommended crossing sites, and no field assessments have been carried out to determine the value of mapped upstream habitat. Recommendations and upstream habitat to be gained has been determined from the mapping data provided by MoFLNRO. Prior to restoration, each stream crossing should be assessed by a hydrologist and/or an engineer to determine if the recommended crossing structure will be adequately sized to convey the stream flow and the determine if any design/construction constraints exist.

Table 6 below outlines the recommendations provided by Marlim for each selected site.

Table 6: Recommendations

Row	My Crossing Reference	Final Score	Barrier Result	Crossing Fix	Recommended Diameter or Span (meters)	Assessment Comment	Species Potentially Present
1	Marlim 284401	36	Barrier	Streambed Simulation	1.40	Intall properly embedded culvert or OBS	DV
2	Marlim 284403	26	Barrier	Removal		Remove culvert, and deactivate road	CT
3	Marlim 286177	26	Barrier	Streambed Simulation	3.00	Intall properly embedded culvert or OBS	ST, RB
4	Marlim 286185	29	Barrier	Streambed Simulation	6.20	Intall properly embedded culvert or OBS	ST, RB
5	Marlim 286397	25	Barrier	Removal		Remove culvert, and deactivate road	DV
6	Marlim 286513	34	Barrier	Streambed Simulation	3.10	Culvert too small for stream, install larger, properly embedded culvert, or OBS	DV, RB, CO
7	Marlim 286528	39	Barrier	Streambed Simulation	3.00	Currently 2 culverts, blocking fish passage	DV, RB, CO
8	Marlim 286592	26	Barrier	Streambed Simulation	2.00	Culvert is too small for channel, replace with embedded, larger cv	DV, CO, CS, CT, RB, MW
9	Marlim 286649	26	Barrier	Removal		Culvert is blown out, and should be removed and the channel restored	DV
10	Marlim 286967	36	Barrier	Streambed Simulation	1.6	Culvert should be replaced with properly embedded structure, fry observed at outlet	RB

TRIBUTARY TO OWEN CREEK

MAP NO.: 284401 **MARLIM NO.:** MARLIM 284401

STREAM NAME: TRIBUTARY TO OWEN CREEK **ROAD NAME:** UNNAMED FSR

UTM COORDINATES: ZONE 9N 605736E 6085891N

Marlim Site No.: 284401 had a stream width ratio of 1.00 and a stream width ratio score of 3. The culvert length score was 3, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 10.

This site received a final score of 36 and was classed as a Barrier by the scoring matrix. The upstream length to be gained is 875.00m, as mapped. Marlim No.: 286397 is located 585.00m downstream from this site, which was also a barrier, and has been recommended for restoration.

It is recommended that the current culvert be replaced with a properly embedded culvert of a minimum 1.40m diameter.

TRIBUTARY TO TROUT CREEK

MAP NO.: 284403 **MARLIM NO.:** MARLIM 284403

STREAM NAME: TRIBUTARY TO TROUT CREEK **ROAD NAME:** R10836 608A-5

UTM COORDINATES: ZONE 9N 603569E 6085549N

Marlim Site No.: 284403 had a stream width ratio of 1.88 and a stream width ratio score of 6. The culvert length score was 0, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 0.

This site received a final score of 26 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 1.70km.

Recommendations for this site are to remove the culvert, restore the channel, and deactivate the road. If the road is not deactivated, it should be replaced with a properly embedded culvert which is a minimum of 2.63m in diameter.

TRIBUTARY TO GRAMOPHONE CREEK

MAP NO.: 286177 **MARLIM NO.:** MARLIM 286177

STREAM NAME: TRIBUTARY TO GRAMOPHONE CREEK **ROAD NAME:** TELKWA HIGH ROAD

UTM COORDINATES: ZONE 9N 609660E 6093554N

Marlim Site No.: 286177 had a stream width ratio of 1.58 and a stream width ratio score of 6. The culvert length score was 0, the culvert slope score was 5, the embed score was10, and the outlet drop score was 5.

This site received a final score of 26 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 19.76km.

Recommendations for this site are to replace the culvert with a properly embedded culvert which is a minimum of 3.00m in diameter, or replace it with an open-bottom structure.

TRIBUTARY TO GRAMOPHONE CREEK

MAP NO.: 286185 **MARLIM NO.:** MARLIM 286185

STREAM NAME: TRIBUTARY TO GRAMOPHONE CREEK **ROAD NAME:** TELKWA HIGH ROAD

UTM COORDINATES: ZONE 9N 609726E 6092873N

Marlim Site No.: 286185 had a stream width ratio of 2.80 and a stream width ratio score of 6. The culvert length score was 3, the culvert slope score was 5, the embed score was 10 and the outlet drop score was 5.

This site received a final score of 29 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 27.15km.

Recommendations for this site are to replace the existing culverts with one properly embedded culvert which is a minimum of 6.20m in diameter, or replace them with an open-bottom structure.

TRIBUTARY TO OWEN CREEK

MAP NO.: 286397 **MARLIM NO.:** MARLIM 286397

STREAM NAME: TRIBUTARY TO OWEN CREEK **ROAD NAME:** UNNAMED FSR

UTM COORDINATES: ZONE 9N 606298E 6085891N

Marlim Site No.: 286397 had a stream width ratio of 0.74 and a stream width ratio score of 0. The culvert length score was 0, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 5.

This site received a final score of 25 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 585.00m. Marlim No.: 284401 is located 585.00m upstream from this site, which was also a barrier, and has been recommended for restoration.

Recommendations for this site are to deactivate the road, and remove the culvert to restore the stream channel. If the road is not deactivated, the culvert should be replaced with a properly embedded and graded culvert which is a minimum of 1.03m in diameter.

TRIBUTARY TO DRIFTWOOD CREEK

MAP NO.: 286513 **MARLIM NO.:** MARLIM 286513

STREAM NAME: TRIBUTARY TO DRIFTWOOD CREEK **ROAD NAME:** ADAMS ROAD

UTM COORDINATES: ZONE 9N 623406E 6079516N

Marlim Site No.: 286513 had a stream width ratio of 2.18 and a stream width ratio score of 6. The culvert length score was 3, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 5.

This site received a final score of 34 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 8.40km. Marlim No.: 286528 is located downstream from this site, which was also a barrier, and has been recommended for restoration.

Recommendations for this site are to replace with a properly embedded culvert which is a minimum of 3.1m in diameter.

TRIBUTARY TO DRIFTWOOD CREEK

MAP NO.: 286528 **MARLIM NO.:** MARLIM 286528

STREAM NAME: TRIBUTARY TO DRIFTWOOD CREEK **ROAD NAME:** BABINE LAKE ROAD

UTM COORDINATES: ZONE 9N 622537E 6078562N

Marlim Site No.: 286528 had a stream width ratio of 1.81 and a stream width ratio score of 6. The culvert length score was 3, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 10.

This site received a final score of 39 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 2.50km. Marlim No.: 286513 is located upstream from this site, which was also a barrier, and has been recommended for restoration.

Recommendations for this site are to replace the culverts with a properly embedded culvert which is a minimum of 3.00m in diameter, or replace it with an open-bottom structure.

TRIBUTARY TO SIMPSON CREEK

MAP NO.: 286592 **MARLIM NO.:** MARLIM 286592

STREAM NAME: TRIBUTARY TO SIMPSON CREEK **ROAD NAME:** NELSON ROAD

UTM COORDINATES: ZONE 9N 614279E 6075193N

Marlim Site No.: 286592 had a stream width ratio of 2.58 and a stream width ratio score of 6. The culvert length score was 0, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 0.

This site received a final score of 26 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 5.40km.

Recommendations for this site are to replace the culvert with a properly embedded culvert which is a minimum of 2.10m in diameter.

GONAKWA CREEK

MAP NO.: 286649 **MARLIM NO.:** MARLIM 286649

STREAM NAME: GONAKWA CREEK **ROAD NAME:** UNNAMED FSR

UTM COORDINATES: ZONE 9N 631056E 6074362N

Marlim Site No.: 286649 had a stream width ratio of 3.23 and a stream width ratio score of 6. The culvert length score was 0, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 0.

This site received a final score of 26 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 12.70km.

Recommendations for this site are to remove the culverts and debris and fully deactivate the road.

MCDOWELL CREEK

ORIGINAL NO.: 286967 **MARLIM NO.:** MARLIM 286967

STREAM NAME: MCDOWELL CREEK **ROAD NAME:** WOODMERE NURSERY ROAD

UTM COORDINATES: ZONE 9N 627643E 6060449N

Marlim Site No.: 286967 had a stream width ratio of 1.60 and a stream width ratio score of 6. The culvert length score was 0, the culvert slope score was 10, the embed score was 10 and the outlet drop score was 10.

This site received a final score of 36 and was classed by the matrix as a Barrier. The upstream habitat length to be gained is 6.50km.

Recommendations for this site are to replace the culvert with a properly embedded and graded culvert which is a minimum of 1.60m in diameter.

CONCLUSIONS

A total of 722 mapped sites were assessed during this contract. Of the 596 sites that existed, 283 (48%) were classed as barriers by the scoring matrix. The 10 sites recommended in the report for removal or replacement are considered to be the top 10 crossings for which replacement or removal would be most beneficial. Stream crossing structures, especially closed bottom structures appear to be a significant issue for fish passage in the Babine Timber Sales Area.

APPENDIX I

PHOTOGRAPH LOG

Marlim 284401, Row 1 - All Tables

Photo 1: Marlim 284401

Description: Barrel

Direction: Upstream

Photo 2: Marlim 284401

Description: Downstream Channel

Direction: Downstream

Marlim 284401, Row 1 - All Tables

Photo 3: Marlim 284401

Description: Inlet

Direction: Downstream

Photo 4: Marlim 284401

Description: Outlet

Direction: Upstream

Marlim 284401, Row 1 - All Tables

Photo 5: Marlim 284401

Location: Upstream Channel

Direction: Upstream

Marlim 284403, Row 2 - All Tables

Photo 6: Marlim 284403

Description: Barrel

Direction: Upstream

Photo 7: Marlim 284403

Description: Downstream Channel

Direction: Downstream

Marlim 284403, Row 2 - All Tables

Photo 8: Marlim 284403

Description: Inlet

Direction: Downstream

Photo 9: Marlim 284403

Description: Outlet

Direction: Upstream

Marlim 284403, Row 2 - All Tables

Photo 10: Marlim 284403

Location: Upstream Channel

Direction: Upstream

Marlim 286177, Row 3 - All Tables

Photo 11: Marlim 286177

Description: Barrel

Direction: Upstream

Photo 12: Marlim 286177

Description: Downstream Channel

Direction: Downstream

Marlim 286177, Row 3 - All Tables

Photo 13: Marlim 286177

Description: Inlet

Direction: Downstream

Photo 14: Marlim 286177

Description: Outlet

Direction: Upstream

Marlim 286177, Row 3 - All Tables

Photo 15: Marlim 286177

Location: Upstream Channel

Direction: Upstream

Marlim 286185, Row 4 - All Tables

Photo 16: Marlim 286185

Description: Barrel_1

Direction: Upstream

Photo 17: Marlim 286185

Description: Barrel_2

Direction: Upstream

Marlim 286185, Row 4 - All Tables

Photo 18: Marlim 286185

Description: Downstream Channel

Direction: Downstream

Photo 19: Marlim 286185

Description: Inlet

Direction: Downstream

Marlim 286185, Row 4 - All Tables

Photo 20: Marlim 286185

Description: Outlet

Direction: Upstream

Photo 21: Marlim 286185

Description: Upstream Channel

Direction: Upstream

Marlim 286397, Row 5 - All Tables

Photo 22: Marlim 286397

Description: Barrel

Direction: Upstream

Photo 23: Marlim 286397

Description: Downstream Channel

Direction: Downstream

Marlim 286397, Row 5 - All Tables

Photo 24: Marlim 286397

Description: Inlet

Direction: Downstream

Photo 25: Marlim 286397

Description: Outlet

Direction: Upstream

Marlim 286397, Row 5 - All Tables

Photo 26: Marlim 286397

Location: Upstream Channel

Direction: Upstream

Marlim 286513, Row 6 - All Tables

Photo 27: Marlim 286513

Description: Barrel

Direction: Upstream

Photo 28: Marlim 286513

Description: Downstream Channel

Direction: Downstream

Marlim 286513, Row 6 - All Tables

Photo 29: Marlim 286513

Description: Inlet

Direction: Downstream

Photo 30: Marlim 286513

Description: Outlet

Direction: Upstream

Marlim 286513, Row 6 - All Tables

Photo 31: Marlim 286513

Description: Upstream Channel

Direction: Upstream

Marlim 286528, Row 7 - All Tables

Photo 32: Marlim 286528

Description: Barrel_1

Direction: Upstream

Photo 33: Marlim 286528

Description: Barrel_2

Direction: Upstream

Marlim 286528, Row 7 - All Tables

Photo 34: Marlim 286528

Description: Downstream Channel

Direction: Downstream

Photo 35: Marlim 286528

Description: Inlet_1

Direction: Downstream

Marlim 286528, Row 7 - All Tables

Photo 36: Marlim 286528

Description: Inlet_2

Direction: Downstream

Photo 37: Marlim 286528

Description: Outlet

Direction: Upstream

Marlim 286528, Row 7 - All Tables

Photo 38: Marlim 286528

Description: Upstream Channel

Direction: Upstream

Marlim 286592, Row 8 - All Tables

Photo 39: Marlim 286592

Description: Barrel

Direction: Upstream

Photo 40: Marlim 286592

Description: Downstream Channel

Direction: Downstream

Marlim 286592, Row 8 - All Tables

Photo 41: Marlim 286592

Description: Inlet

Direction: Downstream

Photo 42: Marlim 286592

Description: Outlet

Direction: Upstream

Marlim 286592, Row 8 - All Tables

Photo 43: Marlim 286592

Location: Upstream Channel

Direction: Upstream

Marlim 286649, Row 9 - All Tables

Photo 44: Marlim 286649

Description: Barrel

Direction: Upstream

Photo 45: Marlim 286649

Description: Crossing

Direction: N/A

Marlim 286649, Row 9 - All Tables

Photo 46: Marlim 286649

Description: Downstream Channel

Direction: Downstream

Photo 47: Marlim 286649

Description: Inlet

Direction: Downstream

Marlim 286649, Row 9 - All Tables

Photo 48: Marlim 286649

Description: Inlet_ LWD

Direction: Downstream

Photo 49: Marlim 286649

Description: Outlet

Direction: Upstream

Marlim 286649, Row 9 - All Tables

Photo 50: Marlim 286649

Description: Outlet_2

Direction: Upstream

Photo 51: Marlim 286649.

Description: Upstream Channel

Direction: Upstream

Marlim 286967, Row 10 - All Tables

Photo 52: Marlim 286967

Description: Barrel

Direction: Upstream

Photo 53: Marlim 286967

Description: Downstream Channel

Direction: Downstream

Marlim 286967, Row 10 - All Tables

Photo 54: Marlim 286967

Description: Inlet

Direction: Downstream

Photo 55: Marlim 286967

Description: Outlet

Direction: Upstream

Marlim 286967, Row 10 - All Tables

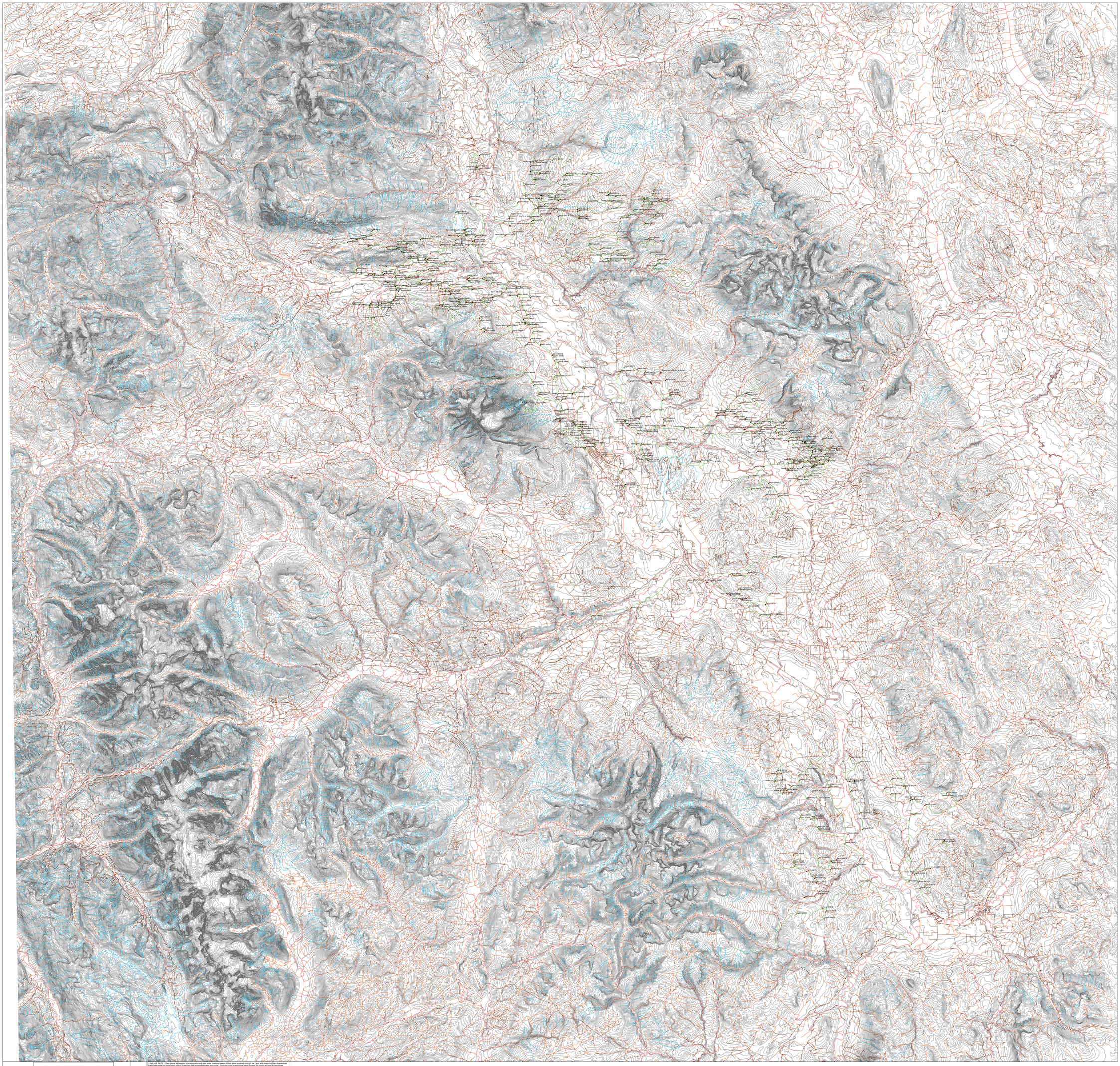
Photo 56: Marlim 286967

Location: Upstream Channel

Direction: Upstream

APPENDIX II

OVERVIEW MAP
DIGITAL VERSION ONLY



Fish Passage Culvert Investigations - Burns Lake TSA

Contract: EN13TA0010

Date: January 2013

Map Title: Overview

MarLim Ecological Consulting Ltd.

Project: 327.12.01

Page: 1

Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com

"PLEASE NOTE" Crew points as-mapped correspond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Discrepancies between the location of crew points and the road and stream layers in the maps created by MarLim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Fish Habitat
- None
- Inferred
- Observed

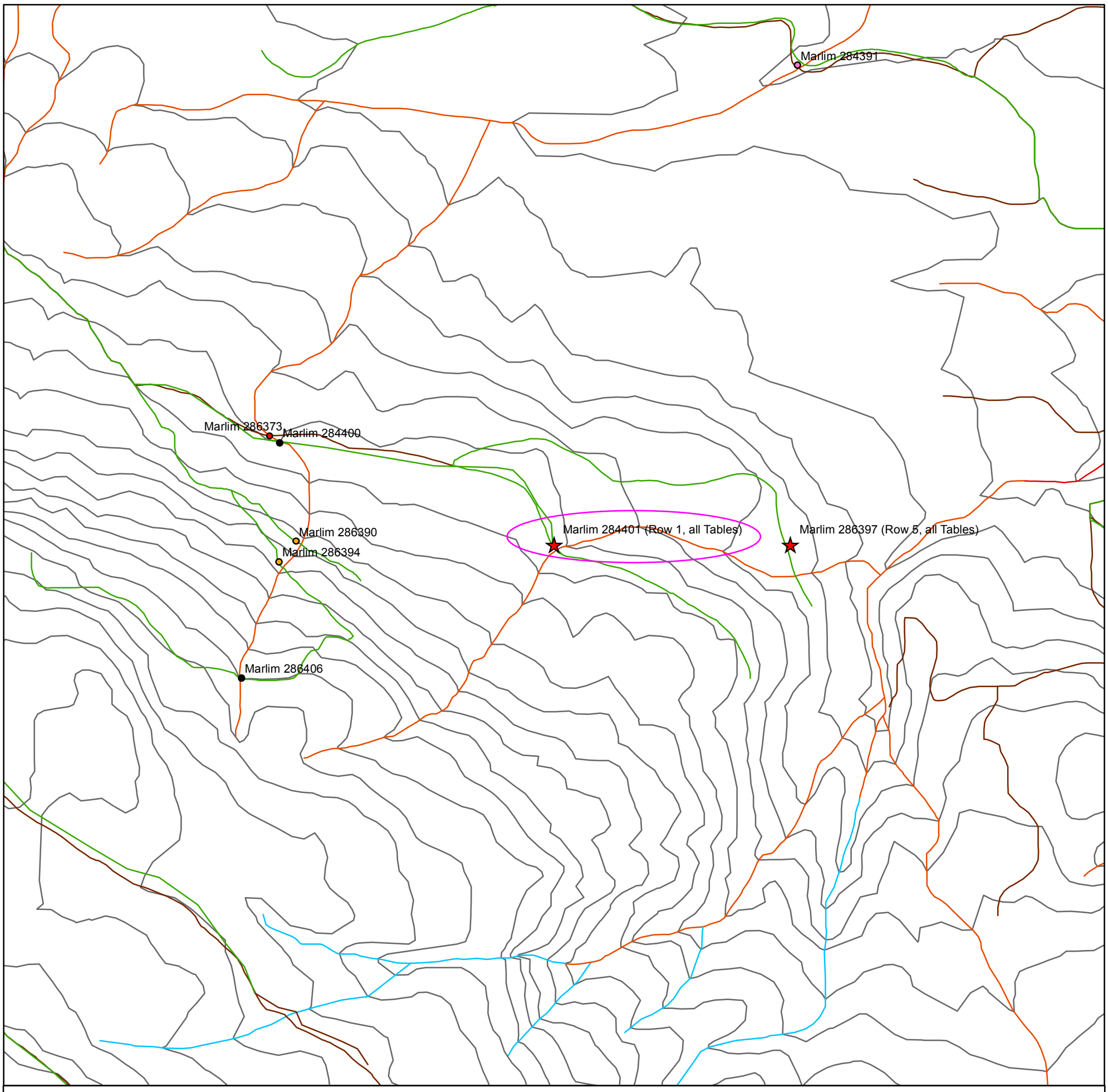
Contours
- 20m interval

0 625 1,250 2,500 3,750 5,000 Meters

1:50,000

APPENDIX III

SITE MAPS



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

Date: January 2013

Map Title: Marlim 284401

MarLim Ecological Consulting Ltd.

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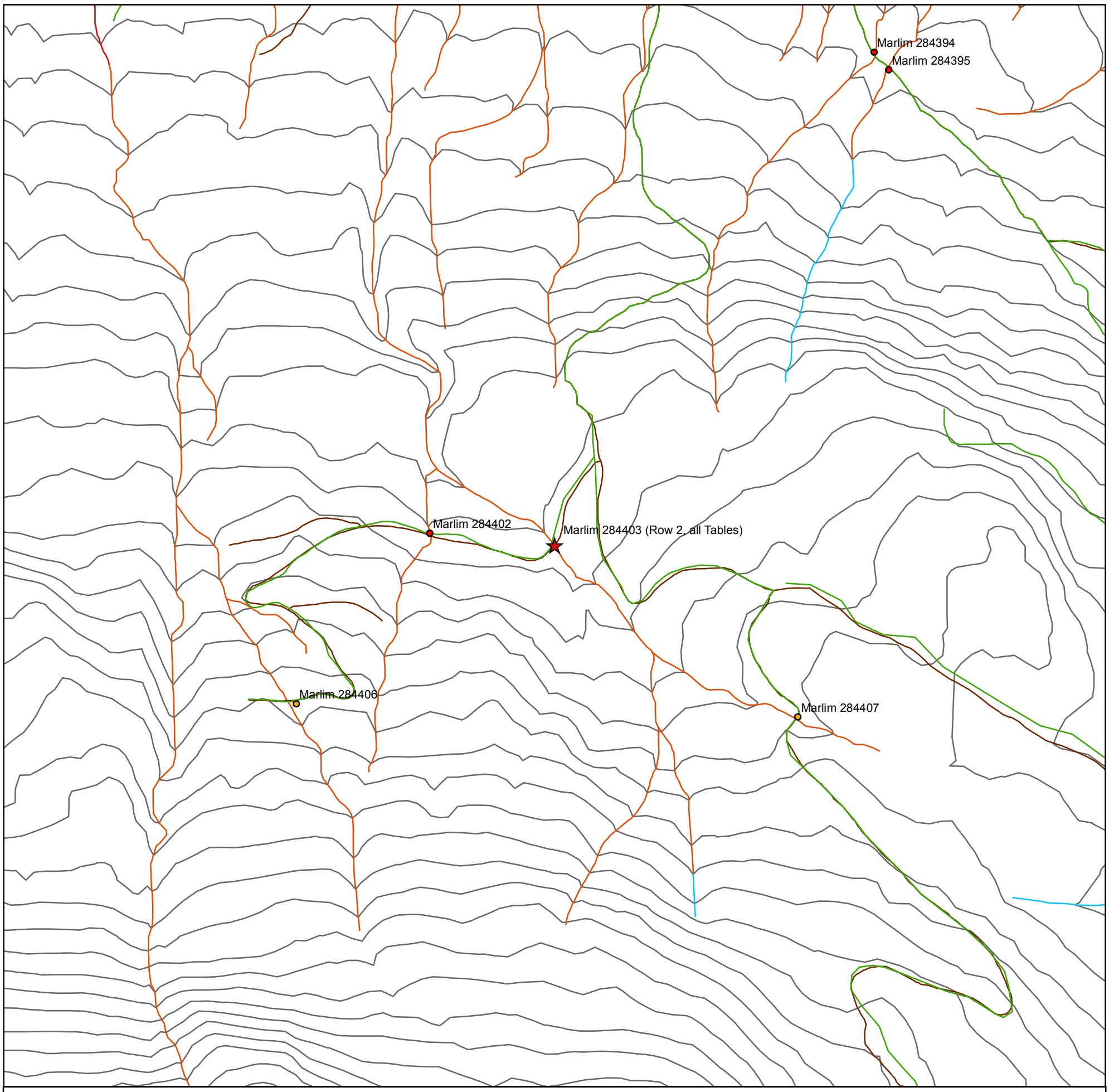
Project: 327.12.01

Page: 1



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

Date: January 2013

Map Title: Marlim 284403

MarLim Ecological Consulting Ltd.

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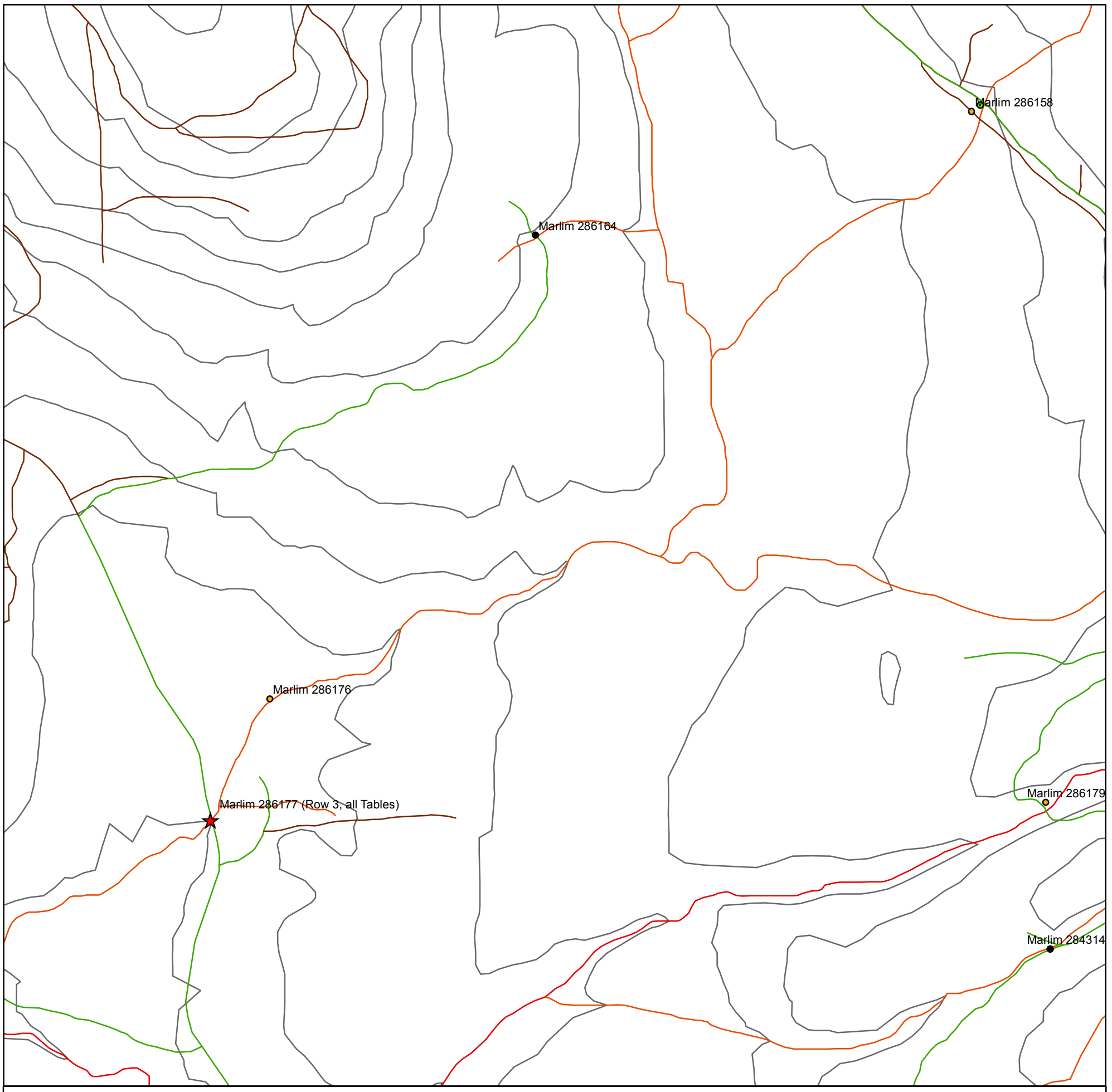
Project: 327.12.01



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

Date: January 2013

Map Title: Marlim 286177

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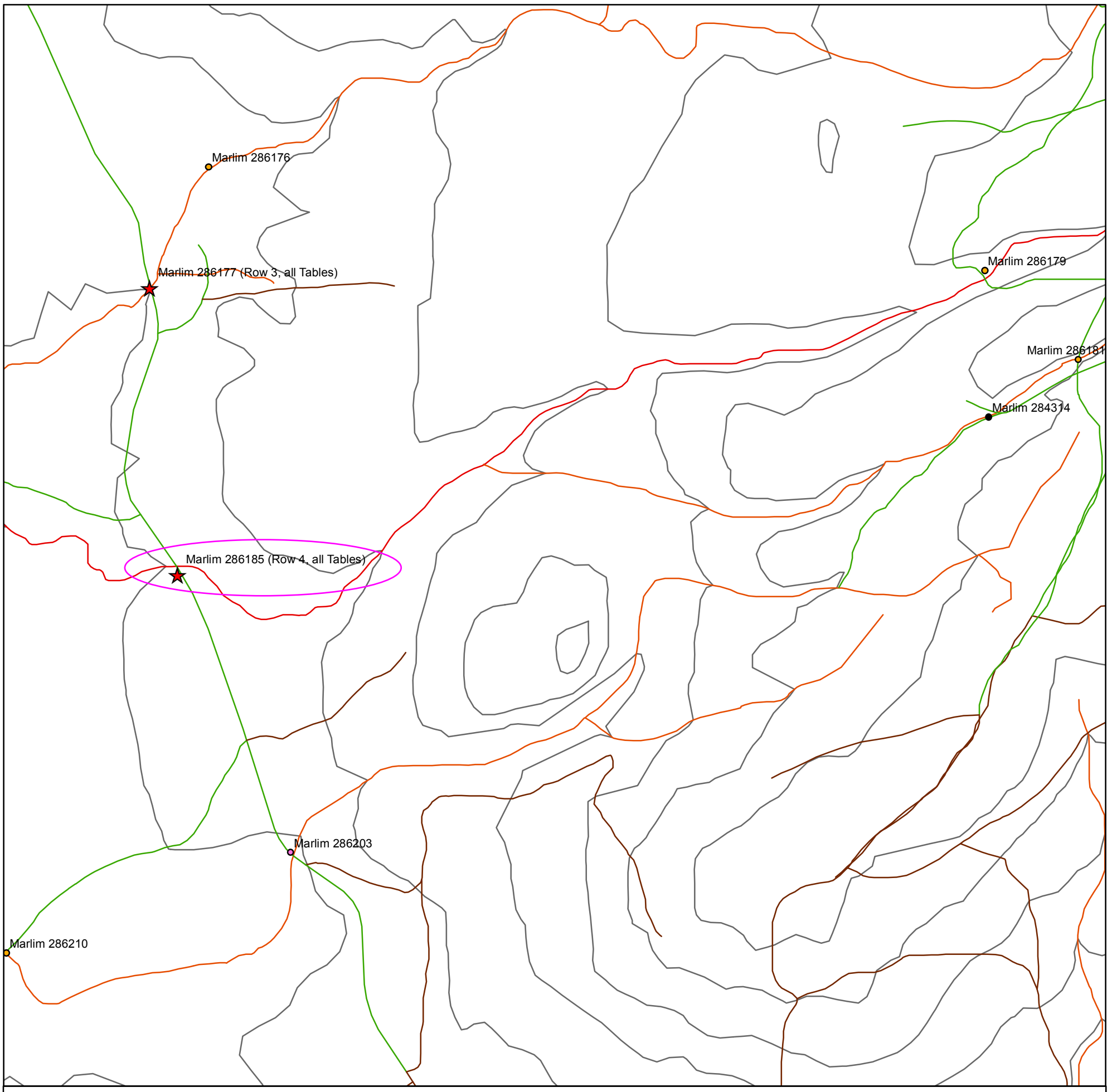
Project: 327.12.01



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

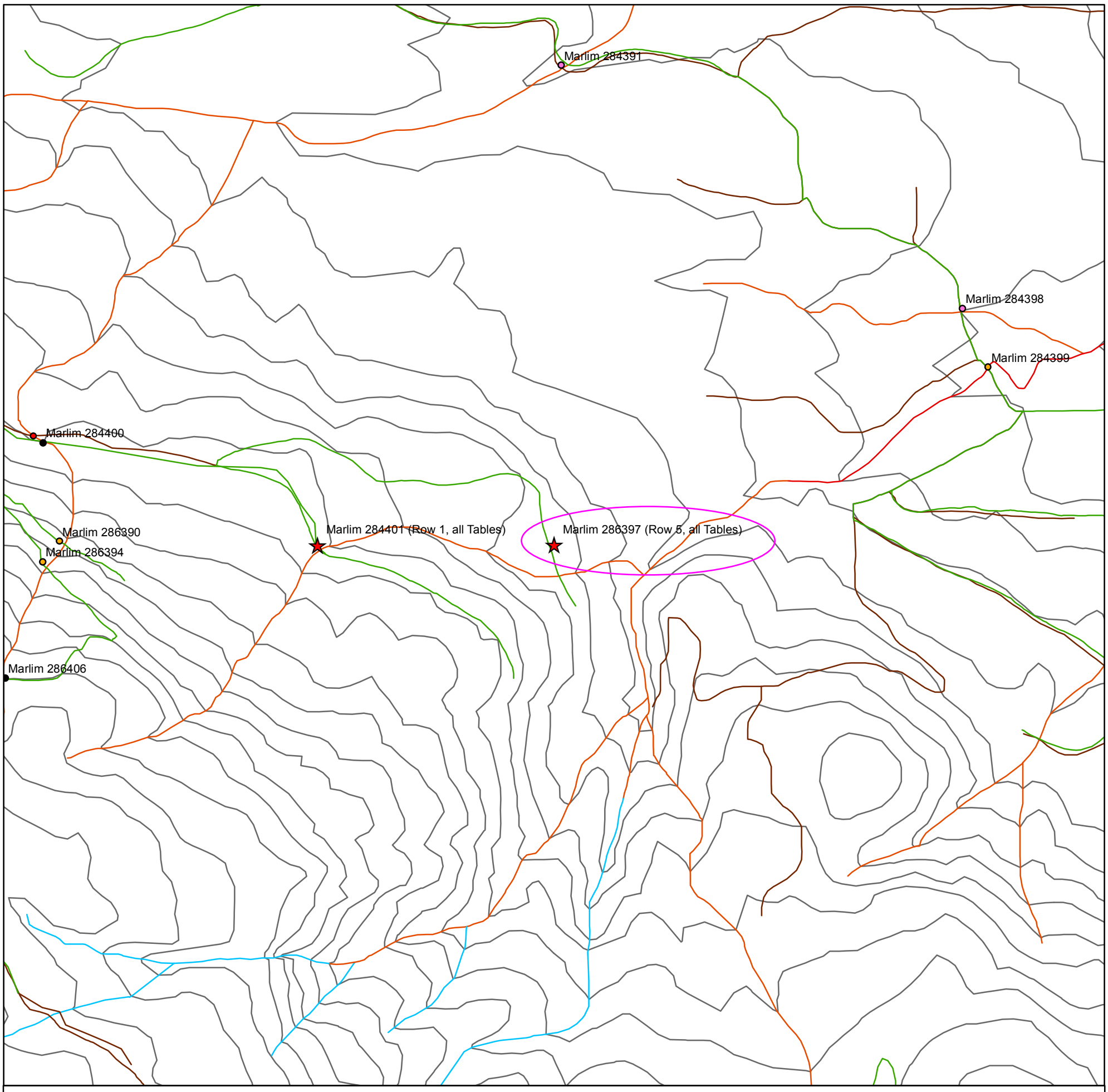
Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD	Fish Passage Culvert Investigations - Babine TSA Contract: EN13TAB010	Date: January 2013	Map Title: Marlim 286185
	MarLim Ecological Consulting Ltd. Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com	Project: 327.12.01	Page: 4



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

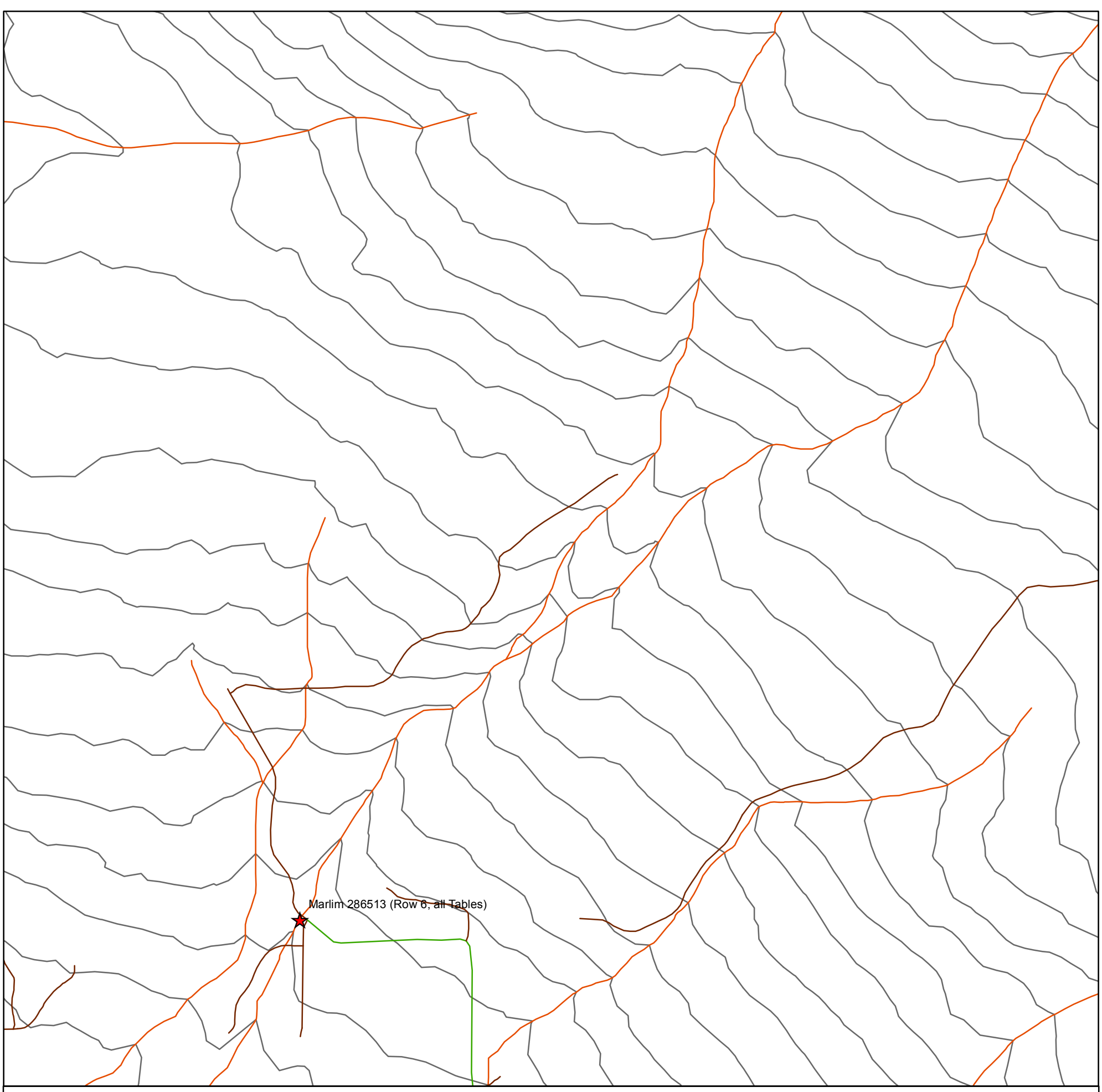
Date: January 2013

Map Title: Marlim 286397

MarLim Ecological Consulting Ltd.

Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com

Project: 327.12.01



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status

- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads

- Unassessed
- Inaccessible
- Assessed

Contours

- 20m Interval

Fish Habitat

- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

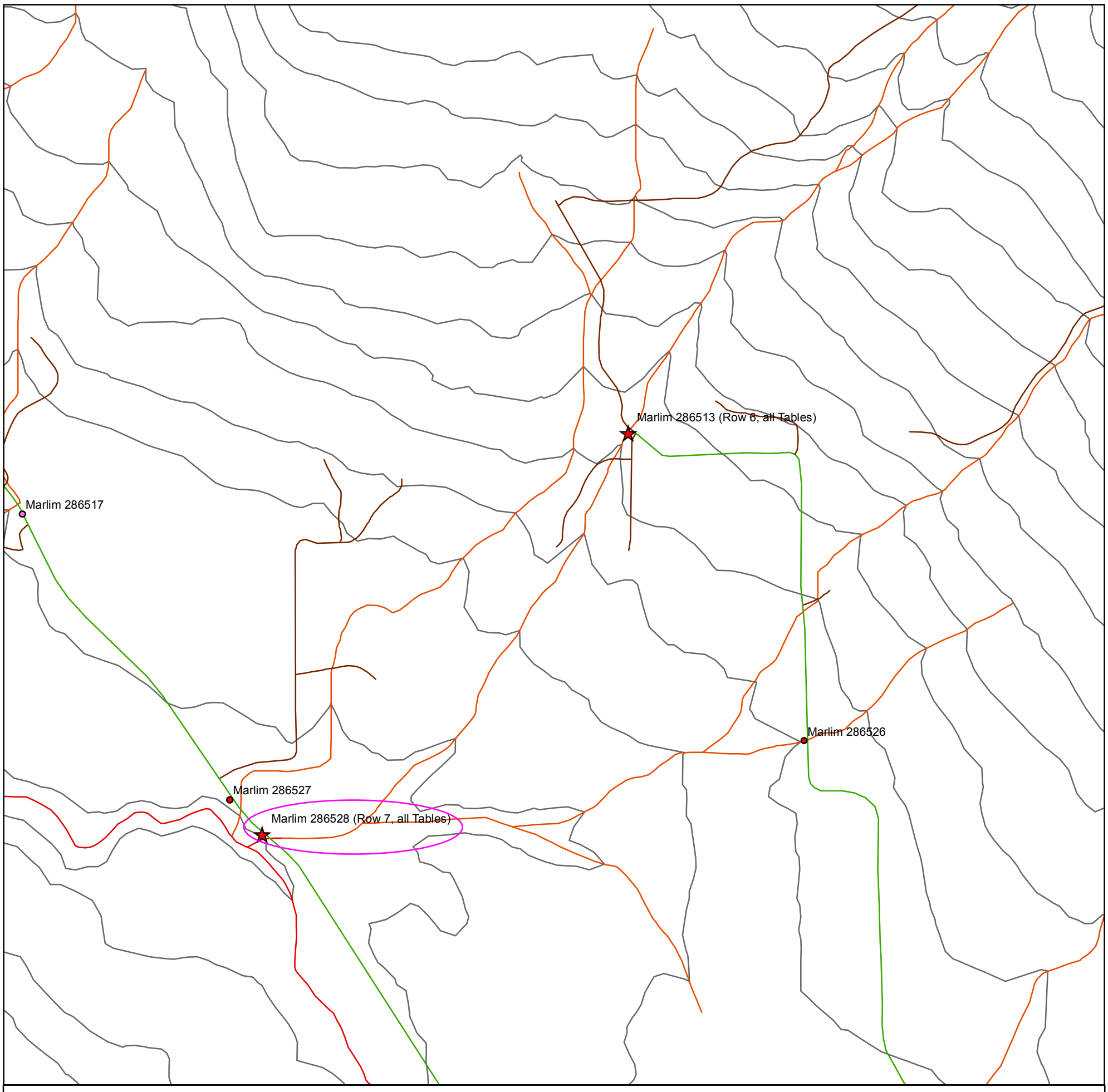
Date: January 2013

Map Title: Marlim 286513

MarLim Ecological Consulting Ltd.

Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com

Project: 327.12.01



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

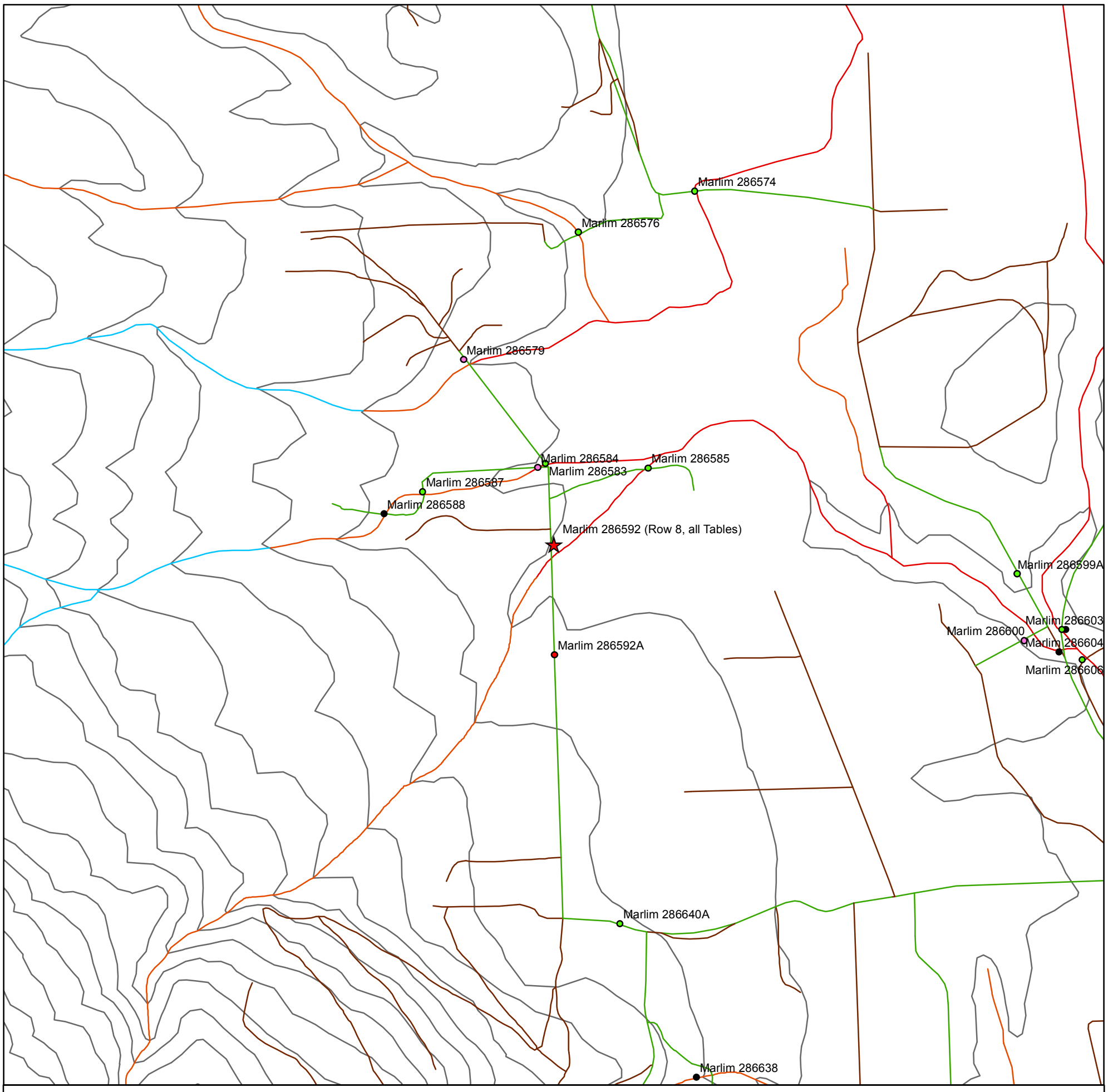
Date: January 2013

Map Title: Marlim 286528

MarLim Ecological Consulting Ltd.

Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com

Project: 327.12.01



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

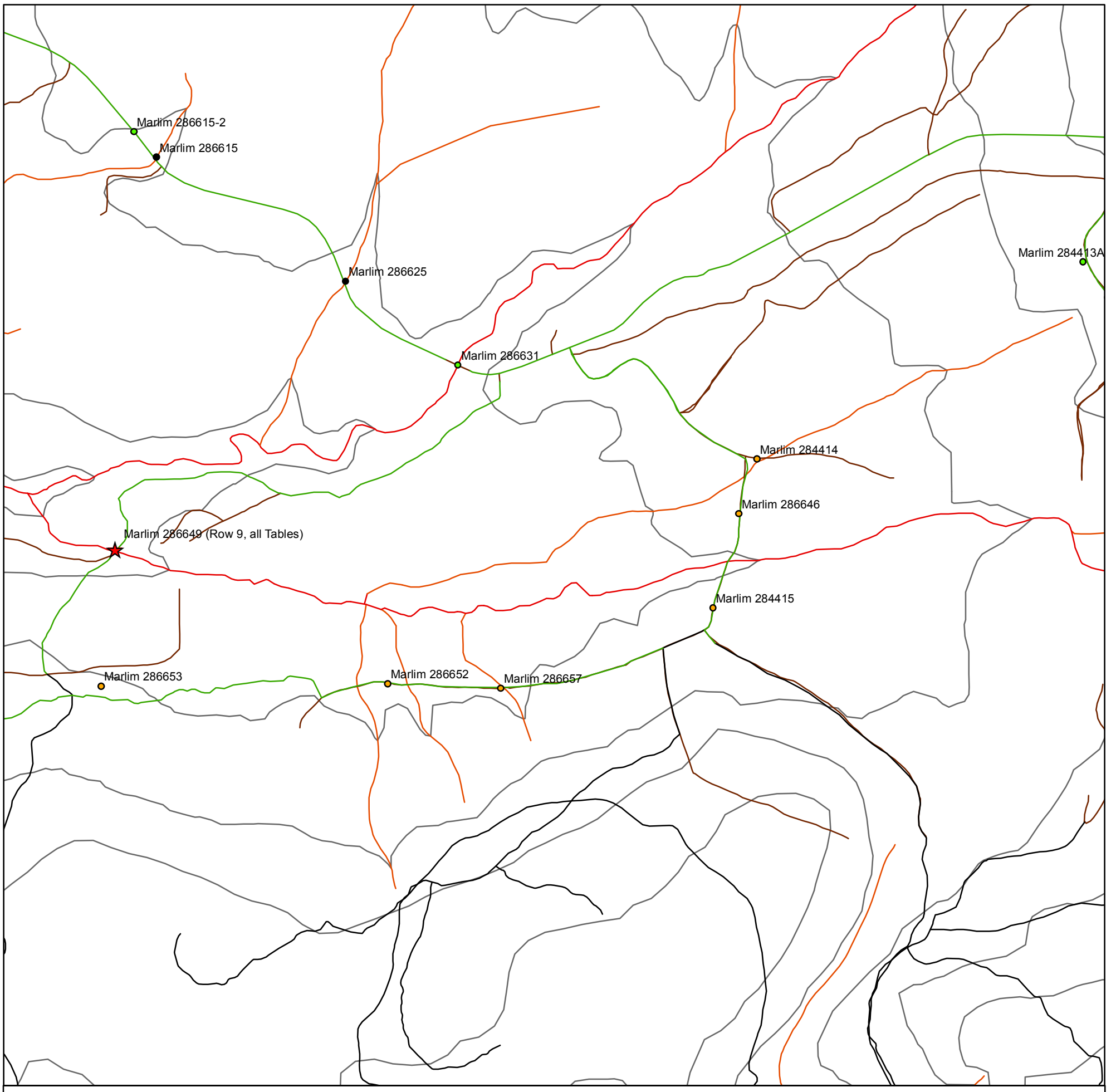
Date: January 2013

Map Title: Marlim 286592

MarLim Ecological Consulting Ltd.

Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com

Project: 327.12.01



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status

- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads

- Unassessed
- Inaccessible
- Assessed

Contours

- 20m Interval

Fish Habitat

- None
- Inferred
- Observed

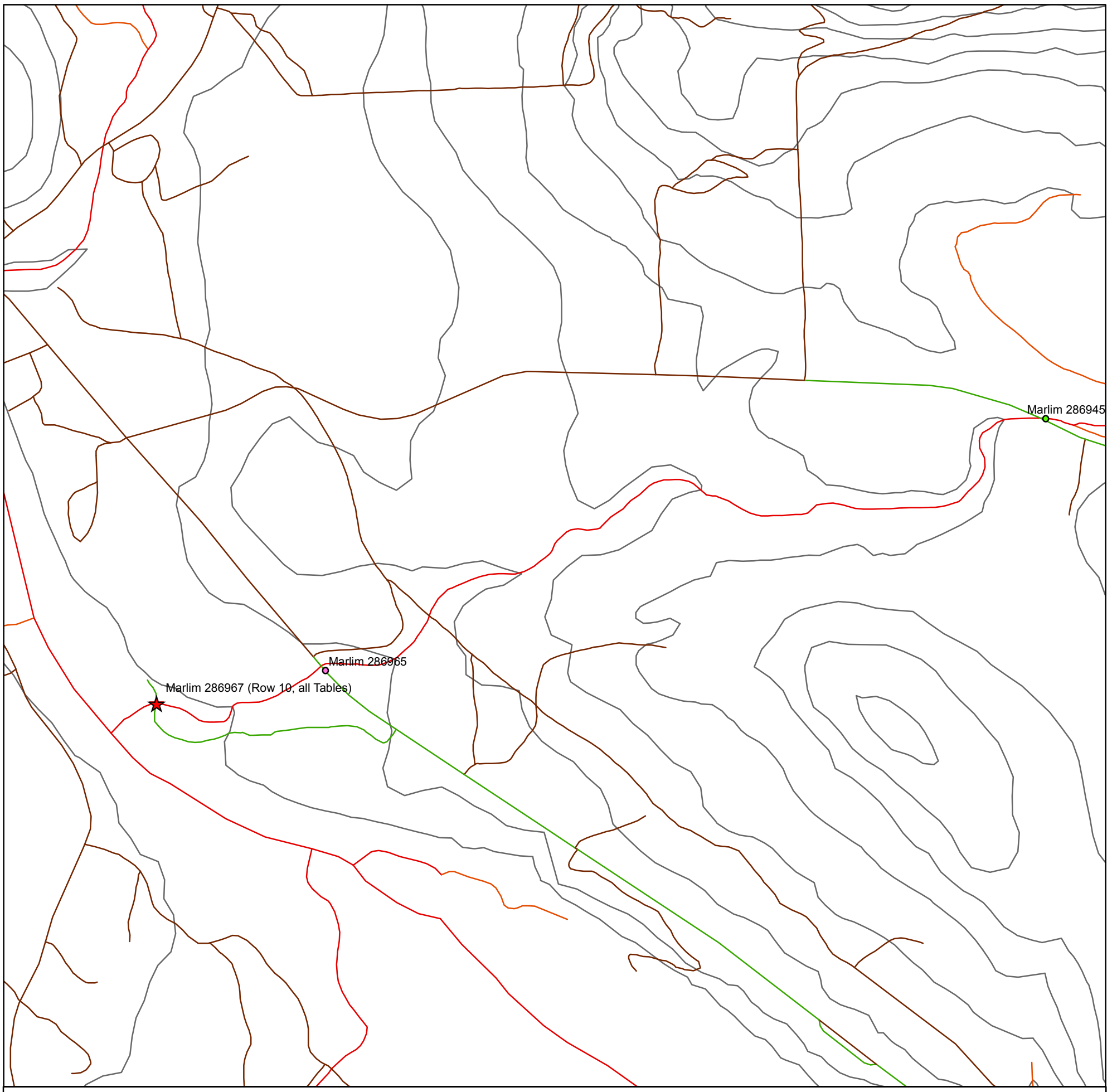
N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA Contract: EN13TAB010	Date: January 2013	Map Title: Marlim 286649
MarLim Ecological Consulting Ltd. Phone/Fax: 604-531-4338 Web: www.marlimecological.com Email: mail@marlimecological.com	Project: 327.12.01	Page: 9



PLEASE NOTE Data points as mapped corrospond to field data while road and stream layers were obtained through the Land and Resource Data Warehouse. Field data points do not always match up exactly with mapped streams and roads. Duplicate road layers in the maps created by Marlim are due to using both FTEN and DRA road layers, in order to map the complete road network. Some overlap is present between the layers.

Legend

Crossing Status
- Barrier
- Priority
- Passable
- Potential
- Unknown
- DNE

Roads
- Unassessed
- Inaccessible
- Assessed

Contours
- 20m Interval

Fish Habitat
- None
- Inferred
- Observed

N

0 100 200 400 600 800 Meters

1:10,000

MARLIM ECOLOGICAL CONSULTING LTD

Fish Passage Culvert Investigations - Babine TSA

Contract: EN13TAB010

Date: January 2013

Map Title: Marlim 286967

MarLim Ecological Consulting Ltd.

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Project: 327.12.01

APPENDIX IV

FIELD ASSESSMENT FOR DETERMINING FISH PASSAGE STATUS OF CLOSED BOTTOM STRUCTURES – SCORING AND DATA COLLECTION SHEETS

Appendix 1: Closed Bottom Structure (CBS) Field Measurement Form

Closed Bottom Structure (CBS) Field Measurement Form								
Location and Overview Data					**Field Observations and Assessment Measurements**			
Date of Assessment					*Crossing Type*	*OBS CBS Other*		
PSCIS Crossing ID *(only needed if this is a re-assessment)*					*Crossing Subtype*	*Bridge, Pipe Arch, Wood Box Culvert, Round Culvert, Oval Culvert, Concrete Box, Ford*		
My Crossing Reference					*Culvert Diameter or Span for OBS (m)*			
Crew Members					*Culvert Length or Width for OBS (m)*			
UTM/GPS (NAD 83)	*Zone*	*Easting*	*Northing*		*Continuous Embeddedment?*	*Yes No*		
Stream Name					*If Embedded, Average Depth of Embeddedment*	*Inlet* ____*m*	*Outlet* ____*m*	*Average* ____*m*
Road Name								
Road Km Mark					*Resemble Channel?*	*Yes No*		
Road Tenure					*Backwatered?*	*Yes No*		
					If Backwatered, to what Percentage			
Stream Information					*Fill Depth (m)*			
Channel Width *Stream Width Ratio*	*Avg. Channel Width*	*Culvert Dia.*	*SWR*		*Outlet Drop (A+B)*	*Invert-ToP (A)*	*ToP – BoC (B)*	*OD*
Stream Slope (%)					*Outlet Pool Depth (m) (C-B)*	*ToP –BoP (C)*	*ToP – BoC (B)*	*OPD*
Beaver Activity	*Yes No*				*Inlet drop*	*Yes No*		
Fish Sighted?	*Yes No*				*Culvert Slope (%)*			
Valley Fill	*DF SF BR*				**Recommendations**			
Habitat Value	*Low Medium High*				*Culvert Fix*	*RM OBS SS ASM BW*		
					Recommended Diameter or Span (m)			
Comments:								

Fish Barrier Scoring[1]

Risk	Embedded[2]	value	Outlet drop	value	Slope	value	SWR	value	Length	value
low	> 30 cm. or > 20% of Diameter and continuous	0	< 15	0	< 1	0	< 1.0	0	< 15	0
mod	< 30 cm. or 20% of Diameter but continuous	5	15 - 30	5	1 - 3	5	1.0 - 1.3	3	15 – 30	3
high	No embeddment or discontinuous	10	> 30	10	> 3	10	> 1.3	6	> 30	6

Notes

1. For the barrier determination of multiple culverts, use the metrics from the pipe lowest in elevation at the outlet. For pipes installed at the same elevation at the outlet, add diameters for SWR criteria and use the highest slope, and length measurement.

2 Properly embedded culverts are considered passable as per natural stream channel. No further consideration of other surrogates is required.

Cumulative Score	Result
0 - 14	passable
15 - 19	potential barrier
> 20	barrier

APPENDIX V

PSCIS DATA TABLES

PSCIS Data for Sites Recommended for Replacement/Restoration

Row	Date of Assessment (YYYY-MM-DD)	PSCIS Crossing	My Crossing Reference	Crew Members	UTM Zone	Easting	Northing	Stream Name	Road Name	Road KM Mark	Road Tenure	Crossing Type	Crossing Subtype	Diameter or Span (meters)	Length or Width (meters)	Continuous Embeddedment? Yes/No	Average Depth Embeded dment (meters)	Resemble Channel? Yes / No	Backwatered? Yes / No	Percentage Backwatered	Fill Depth (meters)	Outlet Drop (meters)
1	2012-10-01		Marlim 284401	RC/CH	9	605736.00	6085891.00	Tributary to Owen Creek	branch off R10836 608A-5 at 0.5km	2.30		Closed Bottom Structure	Round Culvert	1.40	21.00	No	0.00	No	No	0.00	3.20	0.7
2	2012-10-02		Marlim 284403	RC/CH	9	603569.00	6085549.00	Tributary to Trout Creek	R10836 608A-5	2.40		Closed Bottom Structure	Round Culvert	1.40	14.00	No	0.00	No	No	0.00	2.10	0.13
3	2012-10-04		Marlim 286177	RC/CH	9	609660.00	6093554.00	Tributary to Gramophone Creek	Telkwa High Road	5.90		Closed Bottom Structure	Oval Culvert	1.90	14.00	No	0.00	No	No	0.00	0.50	0.27
4	2012-10-04		Marlim 286185	RC/CH	9	609726.00	6092873.00	Tributary to Gramophone Creek	Telkwa High Road	6.60		Closed Bottom Structure	Oval Culvert	2.20	15.40	No	0.00	No	No	0.00	1.30	0.25
5	2012-10-01		Marlim 286397	RC/CH	9	606298.00	6085891.00	Tributary to Owen Creek	branch off R10836 608A-5 at 0.5km	3.20		Closed Bottom Structure	Round Culvert	1.40	14.20	No	0.00	No	No	0.00	1.70	0.27
6	2012-10-24		Marlim 286513	MG	9	623406.00	6079516.00	Tributary to Driftwood Creek	Adams Road	2.80		Closed Bottom Structure	Oval Culvert	1.40	16.30	No		No	No		1.75	0.17
7	2012-10-23		Marlim 286528	MG	9	622537.00	6078562.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)	4.60		Closed Bottom Structure	Round Culvert	1.63	18.50	No		No	No		2.50	0.6
8	2012-10-14		Marlim 286592	RM/CH	9	614279.00	6075193.00	Tributary to Simpson Creek	Nelson Road	0.90		Closed Bottom Structure	Round Culvert	0.80	14.00	No		No	No		1.00	0
9	2012-10-16		Marlim 286649	MG	9	631056.00	6074362.00	Gonakwa Creek	Unnamed	1.20		Closed Bottom Structure	Round Culvert	0.90	13.00	No		No	No		1.40	0
10	2012-11-10		Marlim 286967	RM/NJV	9	627643.00	6060449.00	McDowell Creek	Woodmere Nursery Road	0.40		Closed Bottom Structure	Round Culvert	1.00	11.00	No		No	No		0.75	0.47

Outlet Pool Depth (0.01m)	Inlet Drop? Yes / No	Culvert Slope (%)	Downstream Channel Width (meters)	Stream Slope (%)	Beaver Activity? Yes / No	Fish Observed? Yes / No	Valley Fill	Habitat Value	Stream Width Ratio	Culvert Length Score	Embed Score	Outlet Drop Score	Culvert Slope Score	Stream Width Ratio Score	Final Score	Barrier Result	Crossing Fix	Recommended Diameter or Span (meters)	Assessment Comment
0.10	No	9.00	1.40	10	No	No	Deep Fill	Medium	1.00	3	10	10	10	3	36	Barrier	Open Bottom Structure	1.40	Install OBS if road remaining active
0.07	Yes	7.00	2.63	7	No	No	Deep Fill	High	1.88	0	10	0	10	6	26	Barrier	Removal		Remove culvert, and deactivate road
0.63	No	2.00	3.00	4	No	No	Deep Fill	High	1.58	0	10	5	5	6	26	Barrier	Open Bottom Structure	3.00	replace with OBS
0.45	No	2.00	6.16	4	No	No	Deep Fill	High	2.80	3	10	5	5	6	29	Barrier	Open Bottom Structure	6.20	Replace with OBS
0.13	No	6.00	1.03	10	No	No	Deep Fill	High	0.74	0	10	5	10	0	25	Barrier	Removal		Remove culvert, and deactivate road
0.24	Yes	7.00	3.05	13	No	No	Deep Fill	High	2.18	3	10	5	10	6	34	Barrier	Open Bottom Structure	3.10	Culvert too small for stream
0.33	No	5.00	2.95	11	No	No	Shallow Fi	High	1.81	3	10	10	10	6	39	Barrier	Open Bottom Structure	3.00	Currently 2 culverts, blocking fish passage
0.25	Yes	3.50	2.06	4	No	No	Deep Fill	High	2.58	0	10	0	10	6	26	Barrier	Streambed Simulation	2.00	cv too small for channel, replace with embedded, larger cv
0.00	No	3.00	2.91	3	No	No	Deep Fill	High	3.23	0	10	0	10	6	26	Barrier	Streambed Simulation	2.20	Culvert is blown out, and should be replaced with an embedded culvert
0.54	No	3.00	1.60	3	No	Yes	Deep Fill	High	1.60	0	10	10	10	6	36	Barrier	Streambed Simulation	1.6	Culvert should be replaced with properly embedded structure, fry observed at outlet

PSCIS Assessment Worksheet

Location and Overview Information

Field Observations and Assessment Measurements

Date of Assessment (YYYY-MM-DD)	PSCIS Crossing ID	My Crossing Reference	Crew Members	UTM Zone	Easting	Northing	Stream Name	Road Name	Road KM Mark	Road Tenure	Crossing Type	Crossing Subtype	Diameter or Span (meters)	Length or Width (meters)	Continuous Embeddedment? Yes/No	Average Depth Embeddedment (meters)	Resemble Channel? Yes / No	Backwatered? Yes / No	Percentage Backwatered	Fill Depth (meters)	Outlet Drop (meters)	Outlet Pool Depth (0.01m)
2012-09-07		Marlim 288186	RC/CH	9	638136.00	6030830.00	Tributary to Emerson Creek	R165402	5.30		Open Bottom Structure	Bridge	7.40	4.90								
2012-09-07		Marlim 288199	RC/CH	9	635728.00	6030284.00	Tributary to Emerson Creek	R165402	7.80		Other	Ford										
2012-09-07		Marlim 288198	RC/CH	9	638410.00	6030477.00	Tributary to Emerson Creek	R165402 (left Junction)	5.50		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.50	0.5	0.40
2012-09-07		Marlim 288214	RC/CH	9	638267.00	6029868.00	Tributary to Emerson Creek	R165402 (left Junction)	5.90		Other	Ford										
2012-09-07		Marlim 285082	RC/CH	9	641134.00	6034675.00	Emerson Creek	Walcott FSR	10.90		Open Bottom Structure	Bridge	14.80	4.80								
2012-09-07		Marlim 285092	RC/CH	9	639399.00	6035241.00	Tributary to Dockrill Creek	Emerson FSR	2.10		Closed Bottom Structure	Round Culvert	0.50	9.00	Yes	0.05	No	No		0.20	0	0.00
2012-09-07		Marlim 285102	RC/CH	9	638932.00	6035081.00	Tributary to Dockrill Creek	Flapjack Main (R143150)	1.60		Open Bottom Structure	Bridge	4.90	7.30								
2012-09-07		Marlim 285106	RC/CH	9	638794.00	6035012.00	Tributary to Dockrill Creek	Flapjack Main (R143150)	1.70		Open Bottom Structure	Bridge	7.30	4.90								
2012-09-07		Marlim 285085	RC/CH	9	637775.00	6035345.00	Tributary to Dockrill Creek	Flapjack Main (R143150)	4.00		Other	Ford										
2012-09-07		Marlim 285169	RC/CH	9	637778.00	6032220.00	Tributary to Emerson Creek	R05237.04 (left junction)	6.80		Closed Bottom Structure	Round Culvert	0.90	17.90	No		No	No		2.40	0.5	0.10
2012-09-07		Marlim 285157	RC/CH	9	637578.00	6033106.00	Tributary to Emerson Creek	R05237.04 (left junction)	5.70		Closed Bottom Structure	Round Culvert	0.60	9.00	No		No	Yes	60.00	0.70	0	0.00
2012-09-07		Marlim 285151	RC/CH	9	637578.00	6033106.00	Tributary to Emerson Creek	R05237.04 (left junction)	5.60		Closed Bottom Structure	Round Culvert	0.90	16.30	No		No	No		1.40	0.8	0.70
2012-09-08		Marlim 285148	RC/CH	9	637416.00	6033512.00	Tributary to Emerson Creek	Emerson FSR (R05246)	6.20		Closed Bottom Structure	Round Culvert	0.80	15.00	No		No	No		0.40	0.3	0.60
2012-09-08		Marlim 285131	RC/CH	9	636672.00	6034174.00	Tributary to Emerson Creek	Emerson FSR (R05246)	7.30		Closed Bottom Structure	Round Culvert	0.60	8.70	No		No	No		0.50	0.3	0.10
2012-09-08		Marlim 285112	RC/CH	9	635598.00	6034654.00	Tributary to Bulkley River	Emerson FSR (R05246)	8.60		Other	Ford										
2012-09-08		Marlim 285101	RC/CH	9	635534.00	6034898.00	Tributary to Bulkley River	Emerson FSR (R05246)	10.00		Closed Bottom Structure	Round Culvert	0.60	8.80	No		No	No		1.60	0.2	0.20
2012-09-08		Marlim 285041	RC/CH	9	640164.00	6036698.00	Tributary to Bulkley River	Walcott FSR	12.90		Open Bottom Structure	Bridge	10.46	4.74								
2012-09-08		Marlim 285022	RC/CH	9	640426.00	6037527.00	Dockrill Creek	Walcott FSR	16.00		Open Bottom Structure	Bridge	13.92	4.80								
2012-09-08		Marlim 287783	RC/CH	9	636678.00	6040781.00	Tributary to Bulkley River	R05237.08	5.00		Closed Bottom Structure	Round Culvert	0.30	12.20	No		No	No		1.10	0.15	0.05
2012-09-08		Marlim 284951	RC/CH	9	638647.00	6041808.00	Tributary to Bulkley River	Walcott FSR	18.10		Open Bottom Structure	Bridge	9.52	6.10								
2012-09-08		Marlim 287691	RC/CH	9	636716.00	6043414.00	Tributary to Bulkley River	Unnamed	2.35		Closed Bottom Structure	Round Culvert	0.50	9.00	No		No	No		1.77	0	0.00
2012-09-08		Marlim 288136	RC/CH	9	647424.00	6032843.00	Tributary to Mathews Creek	Eichenberger	1.20		Closed Bottom Structure	Round Culvert	0.45	6.00	No		No	No		0.84	0.05	0.09
2012-09-08		Marlim 288073	RC/CH	9	647977.00	6034454.00	Mathews Creek	Road to Mathews Lake	1.80		Closed Bottom Structure	Round Culvert	0.60	6.15	No		No	Yes	15.00	0.60	0.1	0.10
2012-09-08		Marlim 288096	RC/CH	9	646501.00	6033893.00	Mathews Creek	Hwy 16	0.45		Closed Bottom Structure	Round Culvert	0.95	55.30	No		No	No		9.99	0.34	0.30
2012-09-08		Marlim 288091	RC/CH	9	646357.00	6034018.00	Mathews Creek	Hwy 16	0.60		Closed Bottom Structure	Round Culvert	0.90	61.70	No		No	No		9.99	0.7	0.04
2012-09-09		Marlim 287791	RC/CH	9	646192.00	6040863.00	Tributary to Vallee Creek	Hwy 16	7.50		Closed Bottom Structure	Round Culvert	0.60	50.30	No		No	Yes	100.00	9.99	0	0.00
2012-09-09		Marlim 287859	RC/CH	9	646598.00	6039385.00	Vallee Creek	Anderson Road	0.50		Closed Bottom Structure	Round Culvert	0.50	12.28	No		No	No		0.45	0	0.00
2012-09-09		Marlim 287822	RC/CH	9	647460.00	6040143.00	Vallee Creek	Summit Lake Rd	1.30		Closed Bottom Structure	Round Culvert	1.20	12.00	No		No	No		0.63	0.55	0.20
2012-09-09		Marlim 287804	RC/CH	9	644715.00	6050569.00	Vallee Creek	Barrett Hat Rd	2.70		Closed Bottom Structure	Round Culvert	1.60	12.30	No		No	No		1.60	0.65	0.55
2012-09-09		Marlim 287779	RC/CH	9	644735.00	6041241.00	Tributary to Vallee Creek	Barrett Hat Rd	3.40		Closed Bottom Structure	Round Culvert	0.40	6.20	No		No	No		0.20	0	0.00
2012-09-09		Marlim 287781	RC/CH	9	644310.00	6041157.00	Tributary to Vallee Creek	Barrett Hat Rd	4.10		Other	Ford										
2012-09-09		Marlim 287767	RC/CH	9	645536.00	6041908.00	Tributary to Vallee Creek	Private	9.00		Other	Ford										
2012-09-09		Marlim 287745	RC/CH	9	644400.00	6042534.00	Tributary to Vallee Creek	Private	1.30		Closed Bottom Structure	Round Culvert	0.50	7.60	No		No	No		1.30	0	0.00
2012-09-09		Marlim 287677	RC/CH	9	641460.00	6044049.00	Vallee Creek	Walcott Rd	6.00		Closed Bottom Structure	Round Culvert	3.20	12.30	No		No	Yes	80.00	1.60	0	0.30
2012-09-09		Marlim 287669	RC/CH	9	640672.00	6044414.00	Vallee Creek	Walcott Rd (Private)	6.90		Other	Ford										
2012-09-09		Marlim 287790	RC/CH	9	640990.00	6040660.00	Tributary to Bulkley River	Private off of Grouse Rd	2.80		Closed Bottom Structure	Round Culvert	0.50	6.00	No		No	No		0.70	0.05	0.30
2012-09-09		Marlim 287774	RC/CH	9	640661.00	6041428.00	Tributary to Bulkley River	Private off of Grouse Rd	2.00		Closed Bottom Structure	Round Culvert	0.60	9.00	No		No	No		0.60	0	0.00
2012-09-09		Marlim 287746	RC/CH	9	640520.00	6042368.00	Tributary to Bulkley River	Private off of Grouse Rd	1.00		Closed Bottom Structure	Round Culvert	0.50	12.00	No		No	No		0.80	0.05	0.10
2012-09-09		Marlim 287801	RC/CH	9	646290.00	6040677.00	Tributary to Vallee Creek	Hwy 16	7.40		Closed Bottom Structure	Round Culvert	0.65	21.30	No		No	No		1.80	0.1	0.05
2012-09-10		Marlim 288121	RC/CH	9	646004.00	6033201.00	Tributary to Mathews Creek	Seinen Rd	1.10		Open Bottom Structure	Bridge	3.72	3.68								
2012-09-10		2	RC/CH	9	646065.00	6033294.00	Tributary to Mathews Creek	Seinen Rd	0.90		Closed Bottom Structure	Round Culvert	0.65	6.00	No		No	No		0.30	0.7	0.20
2012-09-09		Marlim 287862	RC/CH	9	646110.00	6039268.00	Vallee Creek	Hwy 16	6.10		Closed Bottom Structure	Round Culvert	0.95	41.40	No		No	No		6.30	0.4	0.35
2012-09-11		Marlim 286671	RC/CH	9	621184.00	6072970.00	Tributary to Canyon Creek	Billeter Rd	0.30		Closed Bottom Structure	Round Culvert	0.75	12.00	No		No	No		0.60	0.05	0.10
2012-09-11		Marlim 286674	RC/CH	9	621593.00	6072901.00	Tributary to Canyon Creek	Highland Rd	0.10		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.50	0	0.00
2012-09-11		Marlim 286699	RC/CH	9	621424.00	6072382.00	Tributary to Canyon Creek	Antler Rd	0.20		Closed Bottom Structure	Round Culvert	0.90	12.00	No		No	No		0.20	0	0.00
2012-09-11		Marlim 286708	RC/CH	9	621647.00	6072086.00	Tributary to Canyon Creek	Berry Rd	0.00		Closed Bottom Structure	Round Culvert	0.60	18.00	No		No	No		0.45	0	0.00
2012-09-11		Marlim 286715	RC/CH	9	621776.00	6071880.00	Tributary to Canyon Creek	Lowland Rd	0.15		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		1.10	0	0.00
2012-09-11		2	RC/CH	9	622049.00	6071660.00	Tributary to Canyon Creek	Private Rd off of Highland	1.50		Closed Bottom Structure	Round Culvert	0.60	14.00	No		No	No		1.20	0	0.00
2012-09-11		Marlim 286732	RC/CH	9	622205.00	6071559.00	Tributary to Canyon Creek	Upland Rd	0.05		Closed Bottom Structure	Round Culvert	0.90	16.00	No		No	No		1.30	0.05	0.03
2012-09-11		2	RC/CH	9	622220.00	6071514.00	Tributary to Canyon Creek	Private Rd off of Upland	0.10		Closed Bottom Structure	Round Culvert	0.50	8.00	No		No	No		1.00	0	0.00
2012-09-11		Marlim 286682	RC/CH	9	623250.00	6072831.00	Tributary to Canyon Creek	Billeter Rd	2.50		Closed Bottom Structure	Round Culvert	0.60	12.60	No		No	No		0.50	0.15	0.35
2012-09-11		Marlim 286749	RC/CH	9	626818.00	6071355.00	Tributary to Canyon Creek	Private/Jollymore	3.70		Closed Bottom Structure	Round Culvert	0.06	15.00	No		No	No		0.60	0.2	0.00
2012-09-11		Marlim 286675	RC/CH	9	624003.00	6073018.00	Canyon Creek	Billeter Rd	2.90		Open Bottom Structure	Bridge	6.40	17.00								
2012-09-11		Marlim 286666	RC/CH	9	623961.00	6073357.00	Tributary to Canyon Creek	Billeter Rd	3.10		Closed Bottom Structure	Round Culvert	0.75	11.20	No		No	No		0.65	0.4	0.25
2012-09-11		Marlim 286619	RC/CH	9	619931.00	6074757.00	Tributary to Canyon Creek	Newens Rd	2.80		Closed Bottom Structure	Round Culvert	0.80	11.70	No		No	No		1.10	0	0.00
2012-09-11		Marlim-1	RC/CH	9	621179.00	6073847.00	Canyon Creek	Old Babine Lake Rd	4.00		Open Bottom Structure	Bridge	30.45	8.50								
2012-09-11		Marlim 286622	RC/CH	9	620420.00	6074643.00	Tributary to Canyon Creek	Snake Rd	1.00		Closed Bottom Structure	Round Culvert	0.60	17.00	No		No	No		1.35	0	0.00
2012-09-11		Marlim 286608	RC/CH	9	620227.00	6075074.00	Tributary to Canyon Creek	Snake Rd	1.30		Closed Bottom Structure	Round Culvert	0.35	11.50	No		No	No		0.40	0	0.00
2012-09-11		Marlim 286605	RC/CH	9	620093.00	6075134.00	Tributary to Canyon Creek	Snake Rd	1.50		Closed Bottom Structure	Round Culvert	0.80	8.00	No		No	No		0.55	0.8	0.50
2012-09-11		2	RC/CH	9	620169.00	6075165.00	Tributary to Canyon Creek	Snake Rd	1.40		Closed Bottom Structure	Round Culvert	0.47	12.10	No		No	No		0.35	0.15	0.20
2012-09-11		Marlim 286611	RC/CH	9	620078.00	6079988.00	Canyon Creek	Private/Snake Rd	1.90		Open Bottom Structure	Bridge	18.35	4.20								
2012-09-11		Marlim 286626	RC/CH	9	620745.00	6074541.00	Tributary to Canyon Creek	Snake Rd	0.60		Closed Bottom Structure	Round Culvert	0.35	11.50	No		No	No		3.10	0	0.00
2012-09-11		Marlim 286645	RC/CH	9	622213.00	6074133.00	Tributary to Canyon Creek	Old Babine Lake Rd	5.30		Closed Bottom Structure	Round Culvert	0.60	15.00	No		No	No		0.20	0	0.00
2012-09-12		Marlim 286565	RC/CH	9	618841.00	6076652.00	Canyon Creek	Private/Snake Rd	5.00		Open Bottom Structure	Bridge	13.00	4.34								
2012-09-12		2	RC/CH	9	621470.00	6075255.00	Tributary to Canyon Creek	McCabe Road	1.10		Closed Bottom Structure	Round Culvert	0.90	18.40	No		No	No		1.60	0	0.00
2012-09-12		Marlim 286648	RC/CH	9	622119.00	6074110.00	Tributary to Canyon Creek	Old Babine Lake Rd	5.60		Closed Bottom Structure	Round Culvert	1.80	16.50	No		No	No		1.65	0.26	0.40
2012-09-12		Marlim 286623	RC/CH	9	623707.00	6074711.00	Tributary to Canyon Creek	Telkwa Rd	0.30		Closed Bottom Structure	Round Culvert	0.50	12.00	No		No	No		0.70	0.2	0.15
2012-09-12		2	RC/CH	9	623697.00	6074710.00	Tributary to Canyon Creek	Telkwa Rd	0.30		Closed Bottom Structure	Round Culvert	0.70	6.00	No		No	No		0.65	0.15	0.15

2012-09-12		2	RC/CH	9	623648.00	6075256.00	Tributary to Canyon Creek	Telkwa High Rd	0.80		Closed Bottom Structure	Round Culvert	0.90	12.30	No		No	No		1.30	0	0.00
2012-09-12		Marlim 286636	RC/CH	9	627476.00	6074565.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	3.70		Closed Bottom Structure	Round Culvert	0.60	11.10	No		No	No		0.65	0	0.00
2012-09-23		Marlim 286234	RC/CH	9	603365.00	6091073.00	Tributary to Bulkley River	Private off of Kitsequecla Road	0.40		Closed Bottom Structure	Round Culvert	0.60	6.50	No		No	No		0.65	0	0.00
2012-09-12		Marlim 286607	RC/CH	9	628490.00	6075511.00	Tributary to Gonakwa Creek	Old Babine	5.10		Closed Bottom Structure	Round Culvert	0.60	10.00	No		No	No		0.55	1.4	0.00
2012-09-12		Marlim 286595	RC/CH	9	628641.00	6075771.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	5.40		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.70	1.2	0.00
2012-09-12		Marlim 286589	RC/CH	9	628998.00	6075942.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	5.80		Closed Bottom Structure	Round Culvert	1.20	12.00	Yes	0.15	No	No		0.60	0	0.00
2012-09-12		Marlim 286590	RC/CH	9	629234.00	6075848.00	Lyon Creek	Private/Old Babine Lake FSR	5.90		Closed Bottom Structure	Round Culvert	1.30	16.70	No		No	No		4.20	0.2	0.80
2012-09-12		Marlim 286598	RC/CH	9	629363.00	6075638.00	Badley Creek	Private/Old Babine Lake FSR	5.90		Closed Bottom Structure	Round Culvert	0.95	8.00	No		No	No		0.60	0.05	0.10
2012-09-12		Marlim 286581	RC/CH	9	629325.00	6076040.00	Lyon Creek	Old Babine Lake FSR	6.20		Closed Bottom Structure	Round Culvert	1.90	18.40	No		No	No		4.20	0.35	0.60
2012-09-12		Marlim 286586	RC/CH	9	629771.00	6075988.00	Badley Creek	Old Babine Lake FSR	6.60		Closed Bottom Structure	Round Culvert	1.45	12.10	Yes	0.05	Yes	No		1.00	0.06	0.14
2012-09-12		Marlim 286593	RC/CH	9	630180.00	6075803.00	Tamara Brook	Old Babine Lake FSR	7.10		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.55	0	0.00
2012-09-12		Marlim 286591	RC/CH	9	630360.00	6075854.00	Tamara Brook	Private/Old Babine Lake FSR	7.40		Closed Bottom Structure	Round Culvert	0.50	6.00	No		No	No		0.40	0	0.00
2012-09-12		Marlim 286575	RC/CH	9	630709.00	6076707.00	Badley Creek	Private/Old Babine Lake FSR	9.30		Open Bottom Structure	Bridge	6.70	3.10								
2012-09-13		Marlim 284411	RC/CH	9	630295.00	6077278.00	Lyon Creek	Bill Main	0.00		Open Bottom Structure	Bridge	7.35	4.80								
2012-09-13		Marlim 286631	RC/CH	9	631871.00	6074800.00	Gonakwa Creek	Old Babine Lake FSR	16.50		Open Bottom Structure	Bridge	16.50	4.40								
2012-09-13		Marlim 286632	RC/CH	9	634434.00	6074896.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	19.30		Closed Bottom Structure	Round Culvert	0.80	15.60	No		No	No		1.00	0.15	0.35
2012-09-13		Marlim 286642	RC/CH	9	634635.00	6074721.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	19.50		Closed Bottom Structure	Round Culvert	0.80	18.00	Yes	0.70	Yes	No		1.55	0	0.00
2012-09-13		Marlim 286659	RC/CH	9	635132.00	6074150.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	20.30		Closed Bottom Structure	Round Culvert	0.60	14.00	No		No	No		0.40	0.3	0.00
2012-09-13		Marlim 286665	RC/CH	9	635324.00	6073946.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	20.55		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.80	0.1	0.09
2012-09-13		Marlim 286677	RC/CH	9	635853.00	6073458.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	21.30		Closed Bottom Structure	Round Culvert	0.60	18.30	No		No	No		2.00	0.47	0.23
2012-09-13		Marlim 286690	RC/CH	9	636566.00	6073195.00	Trib to Canyon Creek	Smithers Snowmobile Association Access Road	0.12		Closed Bottom Structure	Round Culvert	0.60	6.00	No		No	No		0.60	0	0.00
2012-09-13		Marlim 286681	RC/CH	9	633743.00	6073399.00	Tributary to Canyon Creek	Smithers Snowmobile Association Access Road	0.60		Closed Bottom Structure	Round Culvert	0.45	10.00	No		No	No		0.40	1	0.00
2012-09-13		Marlim 286673	RC/CH	9	636717.00	6073580.00	Tributary to Canyon Creek	Smithers Snowmobile Association Access Road	0.80		Closed Bottom Structure	Round Culvert	0.60	7.00	No		No	No		0.20	0.4	0.00
2012-09-13		Marlim 286704	RC/CH	9	636808.00	6072751.00	Tributary to Canyon Creek	Old Babine Lake FSR	22.50		Closed Bottom Structure	Round Culvert	1.85	20.90	No		No	No		1.20	1.1	0.60
2012-09-13		Marlim 286710	RC/CH	9	637133.00	6072716.00	Tributary to Canyon Creek	Old Babine Lake FSR	22.90		Closed Bottom Structure	Round Culvert	0.60	11.60	No		No	No		0.90	0.35	0.05
2012-09-13		2	RC/CH	9	637972.00	6072390.00	Tributary to Canyon Creek	30m u/s of "Marlim 286724"	23.70		Other	Ford										
2012-09-13		Marlim 286721	RC/CH	9	637967.00	6072420.00	Tributary to Canyon Creek	70m u/s of "Marlim 286724"	23.70		Other	Ford										
2012-09-13		2	RC/CH	9	637997.00	6072344.00	Tributary to Canyon Creek	Old Babine Lake FSR	24.20		Closed Bottom Structure	Round Culvert	0.80	15.60	No		No	No		1.20	0.25	0.30
2012-09-13		Marlim 286756	RC/CH	9	638733.00	6071792.00	Tributary to Canyon Creek	Old Babine Lake FSR	24.70		Closed Bottom Structure	Round Culvert	0.60	10.00	No		No	No		0.60	0.35	0.00
2012-09-13		2	RC/CH	9	637145.00	6072744.00	Tributary to Canyon Creek	30m u/h from "Marlim 286707"	22.90		Other	Ford										
2012-09-13		Marlim 286702	RC/CH	9	636820.00	6072786.00	Tributary to Canyon Creek	30m u/h from "Marlim 286704"	22.50		Other	Ford										
2012-09-13		2	RC/CH	9	631101.00	6075354.00	Tributary to Gonakwa Creek	Old Babine Lake FSR	10.30		Closed Bottom Structure	Round Culvert	1.20	8.80	Yes	0.12	Yes	No		0.30	0	0.00
2012-09-14		Marlim 286796	RC/CH	9	631891.00	6070140.00	Tributary to Canyon Creek	Babine lake Rd	10.30		Closed Bottom Structure	Round Culvert	0.60	15.20	No		No	No		1.70	0	0.00
2012-09-14		Marlim 284444	RC/CH	9	632630.00	6070096.00	Tributary to Canyon Creek	McDowell Main	0.60		Closed Bottom Structure	Round Culvert	0.50	8.00	No		No	No		0.60	0	0.00
2012-09-14		Marlim 286816	RC/CH	9	632501.00	6068946.00	Tributary to Canyon Creek	McDowell Main	2.40		Closed Bottom Structure	Round Culvert	0.50	8.50	No		No	No		1.00	0	0.00
2012-09-14		Marlim 286817	RC/CH	9	631675.00	6068894.00	Tributary to Canyon Creek	McDowell Main (Right Branch)	3.50		Closed Bottom Structure	Round Culvert	0.50	9.00	No		No	No		1.00	0	0.00
2012-09-14		Marlim 284449	RC/CH	9	633245.00	6069444.00	Tributary to Canyon Creek	McDowell Main	1.30		Closed Bottom Structure	Round Culvert	0.45	13.00	No		No	No		0.90	0.3	0.00
2012-09-14		Marlim 284464	RC/CH	9	634107.00	6068251.00	Tributary to Canyon Creek	McDowell Main	2.80		Closed Bottom Structure	Round Culvert	0.50	8.60	No		No	No		1.60	0	0.00
2012-09-14		Marlim 286460	RC/CH	9	634049.00	6068394.00	Tributary to Canyon Creek	McDowell Main	2.60		Closed Bottom Structure	Round Culvert	0.50	9.00	Yes	0.12	No	No		1.70	0	0.00
2012-09-14		Marlim 286776	RC/CH	9	631928.00	6070886.00	Canyon Creek	Private/Babine Lake Rd	0.90		Open Bottom Structure	Bridge	16.00	4.65								
2012-09-14		Marlim 286774	RC/CH	9	632774.00	6070978.00	Canyon Creek	Babine lake Rd	12.20		Open Bottom Structure	Bridge	21.30	8.50								
2012-09-14		Marlim-2	RC/CH	9	634025.00	6071203.00	Tributary to Canyon Creek	Babine lake Rd	13.50		Closed Bottom Structure	Round Culvert	0.60	17.60	No		No	No		1.30	0.45	0.20
2012-09-14		Marlim 286768	RC/CH	9	634974.00	6071335.00	Tributary to Canyon Creek	Babine lake Rd	14.00		Closed Bottom Structure	Round Culvert	0.80	26.98	No		No	No		7.20	0	0.00
2012-09-14		Marlim 286791	RC/CH	9	634978.00	6070618.00	Tributary to Canyon Creek	Private	0.60		Closed Bottom Structure	Round Culvert	0.45	6.90	No		No	No		0.30	0.3	0.40
2012-09-14		Marlim 286788	RC/CH	9	635006.00	6070709.00	Tributary to Canyon Creek	90m u/s from "Marlim 286791"	0.60		Closed Bottom Structure	Round Culvert	0.60	9.00	No		No	No		1.50	0.5	0.45
2012-09-14		Marlim 286785	RC/CH	9	635362.00	6070750.00	Tributary to Canyon Creek	Private	0.60		Closed Bottom Structure	Round Culvert	1.65	8.10	No		No	No		0.45	0.55	0.55
2012-09-14		Marlim 286803	RC/CH	9	635811.00	6069786.00	Tributary to Canyon Creek	Private/Babine Lake Rd	2.00		Closed Bottom Structure	Round Culvert	0.80	6.00	No		No	No		0.25	0	0.00
2012-09-14		Marlim 286806	RC/CH	9	635881.00	6069705.00	Tributary to Canyon Creek	Private/Babine Lake Rd	2.10		Closed Bottom Structure	Round Culvert	0.45	8.00	No		No	No		0.10	0.2	0.05
2012-09-14		Marlim 286815	RC/CH	9	636124.00	6069274.00	Tributary to Canyon Creek	Private/Babine Lake Rd	2.60		Closed Bottom Structure	Round Culvert	0.90	4.50	No		No	No		0.25	0	0.20
2012-09-14		Marlim 286790	RC/CH	9	635275.00	6070665.00	Tributary to Canyon Creek	130m d/s of "Marlim 286785"	0.60		Other	Ford										
2012-09-14		Marlim 286759	RC/CH	9	635617.00	6071525.00	Tributary to Canyon Creek	Babine lake Rd	15.00		Closed Bottom Structure	Round Culvert	2.40	18.30	No		No	No		2.20	0.14	0.39
2012-09-15		Marlim 286753	RC/CH	9	637046.00	6071733.00	Tributary to Canyon Creek	R01944	0.70		Closed Bottom Structure	Round Culvert	0.50	6.00	No		No	No		0.50	0	0.00
2012-09-15		Marlim 286755	RC/CH	9	637148.00	6071722.00	Tributary to Canyon Creek	R01944	0.70		Closed Bottom Structure	Round Culvert	0.45	7.00	No		No	No		0.30	0	0.00
2012-09-15		Marlim 284431	RC/CH	9	637474.00	6071692.00	Tributary to Canyon Creek	R01944	1.20		Other	Ford										
2012-09-15		2	RC/CH	9	632112.00	6072240.00	Tributary to Canyon Creek	R01944	1.30		Closed Bottom Structure	Round Culvert	0.45	10.60	No		No	No		0.50	0	0.00
2012-09-15		Marlim 286762	RC/CH	9	636757.00	6071525.00	Tributary to Canyon Creek	Babine lake Rd	15.95		Closed Bottom Structure	Round Culvert	0.90	31.00	No		No	No		1.90	0.25	0.35
2012-09-15		Marlim 284443	RC/CH	9	636601.00	6070469.00	Tributary to Canyon Creek	R01944 12 (Woodlot 100)	1.50		Closed Bottom Structure	Round Culvert	1.65	18.20	No		No	No		1.20	0.3	0.10
2012-09-15		Marlim 284447	RC/CH	9	636481.00	6069997.00	Tributary to Canyon Creek	R01944 D (Woodlot 100)	2.40		Closed Bottom Structure	Round Culvert	0.60	12.30	No		No	No		0.80	0.15	0.25
2012-09-15		Marlim 284445	RC/CH	9	637023.00	6070211.00	Tributary to Canyon Creek	R01944 12 (Woodlot 100)	2.40		Closed Bottom Structure	Round Culvert	0.35	10.00	No		No	No		0.50	0.02	0.17
2012-09-15		Marlim-3	RC/CH	9	637256.00	6070974.00	Tributary to Canyon Creek	R01944 (Woodlot 100)	1.00		Closed Bottom Structure	Round Culvert	1.00	13.00	No		No	No		0.80	0	0.00
2012-09-15		Marlim 286781	RC/CH	9	637310.00	6070943.00	Tributary to Canyon Creek	R01944 (Woodlot 100)	1.10		Closed Bottom Structure	Round Culvert	0.60	13.00	No		No	No		0.65	0	0.00
2012-09-15		Marlim 286778	RC/CH	9	637540.00	6071077.00	Tributary to Canyon Creek	250m u/s from "Marlim 286781"	1.10		Other	Ford										
2012-09-15		Marlim 284440	RC/CH	9	637410.00	6070986.00	Tributary to Canyon Creek	100m u/s from "Marlim 286781"	1.10		Other	Ford										
2012-09-13		Marlim 286740	RC/CH	9	638422.00	6072036.00	Tributary to Canyon Creek	Old Babine Lake FSR	24.20		Other	Ford										
2012-09-20		Marlim 284436	RC/CH	9	637835.00	6071360.00	Tributary to Canyon Creek	R01944 P	0.50		Closed Bottom Structure	Round Culvert	1.00	13.00	No		No	No		0.50	0.1	0.02
2012-09-20		Marlim 286773	RC/CH	9	637605.00	6071347.00	Tributary to Canyon Creek	R01944 P	0.75		Other	Ford										
2012-09-20		Marlim 284433	RC/CH	9	638649.00	6071454.00	Tributary to Canyon Creek	R01944 Q	1.50		Closed Bottom Structure	Round Culvert	0.45	9.50	No		No	Yes	20.00	0.90	0.05	0.25
2012-09-20		Marlim 284435	RC/CH	9	638278.00	6071396.00	Tributary to Canyon Creek	R01944 R	0.90		Other	Ford										
2012-09-20		Marlim-4	RC/CH	9	638145.00	6071188.00	Tributary to Canyon Creek	R10553-3 A	1.10		Closed Bottom Structure	Round Culvert	0.40	9.00	No		No	No		0.50	0	0.00
2012-09-20		Marlim-5	RC/CH	9	638278.00	6071827.00	Tributary to Canyon Creek	R01944 K	0.10		Other	Ford										
2012-09-20		Marlim 286766	RC/CH	9	638669.00	6071538.00	Tributary to Canyon Creek	Babine lake Rd	17.90		Closed Bottom Structure	Round Culvert	0.60	18.60	No		No	No		1.80	0.2	0.05
2012-09-20		Marlim 286494	RC/CH	9	616458.00	6079895.00		Yellich Rd	2.90		Closed Bottom Structure	Round Culvert	0.40	7.70	No		No	No		0.50	0	0.00
2012-09-21		Marlim 286554	RC/CH	9	611035.00	6076839.00	Tributary to Glacier Gultch Creek	Glacier Gultch Rd	3.60		Closed Bottom Structure	Round Culvert	0.45	10.80	No		No	No		0.30	0	0.00
2012-09-21		Marlim 286525	RC/CH	9	611870.00	6078324.00	Glacier Gultch Creek	Right Branch of Glacier Gultch Rd	1.65		Open Bottom Structure	Bridge	16.90	4.60								
2012-09-21		Marlim 286522	RC/CH	9	611717.00	6078557.00	Tributary to Glacier Gultch Creek	Right Branch of Glacier Gultch Rd	1.90		Other	Ford										

2012-09-21		Marlim 286498	RC/CH	9	610999.00	6079390.00	Toboggan Creek	Right Branch of Glacier Gultch Rd	3.20		Other	Ford											
2012-09-21		Marlim 286507	RC/CH	9	609653.00	6079187.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	5.20		Other	Ford											
2012-09-21		Marlim-6	RC/CH	9	608542.00	6078986.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	6.50		Other	Ford											
2012-09-21		Marlim 286505	RC/CH	9	608349.00	6079143.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	6.80		Other	Ford											
2012-09-21		Marlim 286511	RC/CH	9	607826.00	6078944.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	7.20		Other	Ford											
2012-09-21		Marlim 286510	RC/CH	9	608031.00	6079004.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	7.05		Other	Ford											
2012-09-21		Marlim-7	RC/CH	9	608286.00	6079123.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	6.90		Other	Ford											
2012-09-21		Marlim-8	RC/CH	9	608453.00	6079018.00	Tributary to Toboggan Creek	Right Branch of Glacier Gultch Rd	6.70		Other	Ford											
2012-09-21		Marlim 286516	RC/CH	9	613798.00	6079112.00	Tributary to Glass Creek	Horlings Rd	1.50		Closed Bottom Structure	Round Culvert	1.60	18.58	Yes	0.50	Yes	No		3.85	0	0.00
2012-09-21		Marlim 286487	RC/CH	9	614089.00	6080422.00	Tributary to Glass Creek	Raceway Rd	0.30		Closed Bottom Structure	Round Culvert	0.90	11.00	No		No	No		0.60	0	0.00
2012-09-21		Marlim-9	RC/CH	9	613720.00	6030662.00	Tributary to Glass Creek	Hwy 16	0.70		Closed Bottom Structure	Round Culvert	0.80	24.30	No		No	No		2.30	0.25	0.15
2012-09-21		Marlim 286485	RC/CH	9	613743.00	6080562.00	Tributary to Glass Creek	Hwy 16	0.60		Closed Bottom Structure	Round Culvert	1.00	24.50	No		No	Yes	5.00	1.50	0.1	0.50
2012-09-21		Marlim 286473	RC/CH	9	612463.00	6081951.00	Tributary to Toboggan Creek	Hwy 16	2.50		Closed Bottom Structure	Round Culvert	0.60	17.00	No		No	No		1.70	0	0.00
2012-09-21		Marlim 286462	RC/CH	9	611791.00	6083115.00	Tributary to Glass Creek	Hwy 16	4.00		Closed Bottom Structure	Round Culvert	0.80	27.80	No		No	No		1.90	0	0.00
2012-09-21		Marlim 286457	RC/CH	9	611725.00	6083520.00	Tributary to Glass Creek	Hwy 16	4.40		Closed Bottom Structure	Round Culvert	0.60	33.50	No		No	No		2.00	0.1	0.50
2012-09-21		Marlim 286449	RC/CH	9	611352.00	6083825.00	Toboggan Creek	Owens Rd	0.30		Open Bottom Structure	Bridge	9.65	15.90								
2012-09-21		Marlim 286439	RC/CH	9	610584.00	6083893.00	Tributary to Elliot Creek	Owens Rd	1.10		Closed Bottom Structure	Round Culvert	0.80	13.10	No		No	No		0.70	0	0.00
2012-09-21		2	RC/CH	9	609954.00	6083210.00	Elliot Creek	Owens Rd	1.80		Open Bottom Structure	Bridge	12.20	4.50								
2012-09-22		Marlim 286453	RC/CH	9	609497.00	6083661.00	Tributary to Toboggan Creek	Private	0.30		Closed Bottom Structure	Round Culvert	1.00	9.30	No		No	Yes	10.00	1.00	0.07	0.23
2012-09-22		2	RC/CH	9	609527.00	6083676.00	Tributary to Toboggan Creek	Private	0.30		Closed Bottom Structure	Round Culvert	1.00	9.00	No		No	Yes	40.00	1.40	0.14	0.06
2012-09-22		2	RC/CH	9	611033.00	6083909.00	Tributary to Toboggan Creek	Owens Rd	0.70		Closed Bottom Structure	Round Culvert	0.75	9.10	Yes	0.50	Yes	No		0.25	0	0.00
2012-09-22		2	RC/CH	9	611082.00	6083990.00	Tributary to Toboggan Creek	Pope Rd	0.10		Closed Bottom Structure	Round Culvert	0.60	9.10	No		No	No		0.25	0	0.00
2012-09-22		Marlim 286419	RC/CH	9	610301.00	6085055.00	Tributary to Toboggan Creek	Pope Rd	1.40		Closed Bottom Structure	Oval Culvert	1.60	12.10	No		No	No		0.30	0	0.00
2012-09-22		Marlim 286365	RC/CH	9	609709.00	6086529.00	Tributary to Toboggan Creek	Pope Rd	3.20		Closed Bottom Structure	Round Culvert	0.60	9.90	No		No	No		0.50	0	0.00
2012-09-22		2	RC/CH	9	609755.00	6086508.00	Tributary to Toboggan Creek	Railway along Pope Rd	3.20		Closed Bottom Structure	Round Culvert	0.80	16.90	No		No	No		3.90	0	0.00
2012-09-22		Marlim 286355	RC/CH	9	609368.00	6087056.00	Tributary to Toboggan Creek	Pope Rd	3.80		Open Bottom Structure	Bridge	7.90	7.25								
2012-09-22		2	RC/CH	9	611073.00	6084062.00	Tributary to Toboggan Creek	Toboggan Creek Fish Hatchery Road	0.30		Closed Bottom Structure	Round Culvert	0.90	12.70	Yes	0.38	Yes	No		0.80	0	0.00
2012-09-22		Marlim 286438	RC/CH	9	611086.00	6084069.00	Tributary to Toboggan Creek	Toboggan Creek Fish Hatchery Road	0.30		Closed Bottom Structure	Round Culvert	1.00	11.80	No		No	No		0.60	0	0.00
2012-09-22		Marlim 286427	RC/CH	9	611244.00	6084681.00	Tributary to Toboggan Creek	Hwy 16	5.60		Closed Bottom Structure	Round Culvert	0.60	18.00	No		No	No		1.10	0	0.00
2012-09-22		Marlim 286408	RC/CH	9	610635.00	6085513.00	Toboggan Creek	Private	0.20		Open Bottom Structure	Bridge	7.10	5.00								
2012-09-22		Marlim 286401	RC/CH	9	610732.00	6085907.00	Tributary to Toboggan Creek	Hwy 16	6.90		Closed Bottom Structure	Round Culvert	0.90	17.80	No		No	No		1.60	0	0.00
2012-09-22		Marlim 286351	RC/CH	9	610684.00	6087257.00	Tributary to Toboggan Creek	Private	0.60		Closed Bottom Structure	Round Culvert	0.30	12.20	No		No	No		0.50	0.5	0.00
2012-09-22		Marlim 286353	RC/CH	9	610703.00	6087237.00	Tributary to Toboggan Creek	Private	0.60		Closed Bottom Structure	Round Culvert	0.30	6.00	No		No	No		0.60	0	0.00
2012-09-22		Marlim 286352	RC/CH	9	610330.00	6087246.00	Tributary to Toboggan Creek	Hwy 16	8.30		Closed Bottom Structure	Round Culvert	0.60	22.00	No		No	No		2.30	1.05	0.05
2012-09-22		Marlim-10	RC/CH	9	610299.00	6087221.00	Tributary to Toboggan Creek	Private	8.30		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.30	0	0.00
2012-09-22		Marlim 286338	RC/CH	9	609504.00	6087646.00	Toboggan Creek	Private	0.15		Open Bottom Structure	Bridge	8.00	4.80								
2012-09-22		Marlim 286273	RC/CH	9	607316.00	6089511.00	Trout Creek	Hwy 16	12.20		Open Bottom Structure	Bridge	32.10	13.80								
2012-09-22		Marlim 286242	RC/CH	9	606583.00	6091034.00	Tributary to Bulkley River	Hwy 16	13.90		Closed Bottom Structure	Round Culvert	0.90	27.30	No		No	No		1.80	0.25	0.15
2012-09-22		Marlim 286225	RC/CH	9	606459.00	6091437.00	Tributary to Bulkley River	Hwy 16	14.30		Closed Bottom Structure	Round Culvert	0.90	30.60	No		No	No		3.20	0.25	0.50
2012-09-22		Marlim 286224	RC/CH	9	606471.00	6091527.00	Tributary to Bulkley River	Hwy 16	14.40		Closed Bottom Structure	Round Culvert	0.80	34.90	No		No	Yes	90.00	7.90	0.04	0.16
2012-09-22		Marlim 286472	RC/CH	9	612500.00	6082046.00	Tributary to Toboggan Creek	Private	2.50		Closed Bottom Structure	Round Culvert	0.60	10.00	No		No	Yes	30.00	0.70	0	0.00
2012-09-23		Marlim 286279	RC/CH	9	607712.00	6089383.00	Toboggan Creek	Hwy 16	11.70		Closed Bottom Structure	Round Culvert	4.00	24.70	No		No	No		5.50	0.9	1.00
2012-09-23		Marlim 286209	RC/CH	9	606611.00	6091871.00	Tributary to Bulkley River	Hwy 16	14.70		Closed Bottom Structure	Round Culvert	1.50	67.70	No		No	No		9.99	1.35	0.60
2012-09-23		Marlim 286204	RC/CH	9	606462.00	6092039.00	Tributary to Bulkley River	Kitsequecla Loop	0.80		Closed Bottom Structure	Round Culvert	1.50	29.70	No		No	No		6.20	1.2	0.10
2012-09-23		Marlim 286217	RC/CH	9	606240.00	6091668.00	Tributary to Bulkley River	Kitsequecla Loop	1.30		Closed Bottom Structure	Round Culvert	0.80	25.50	No		No	No		4.70	0.15	0.25
2012-09-23		Marlim 286223	RC/CH	9	606339.00	6091447.00	Tributary to Bulkley River	Kitsequecla Loop	1.50		Closed Bottom Structure	Round Culvert	0.90	24.00	No		No	No		2.80	0.6	0.50
2012-09-23		Marlim 286239	RC/CH	9	605935.00	6091061.00	Tributary to Bulkley River	Private off of Kitsequecla Loop	1.00		Closed Bottom Structure	Round Culvert	0.60	11.30	No		No	No		0.40	0.17	0.63
2012-09-23		Marlim 286201	RC/CH	9	605709.00	6092056.00	Tributary to Bulkley River	Kitsequecla Road	0.80		Closed Bottom Structure	Round Culvert	0.60	11.00	No		No	No		0.20	0.2	0.10
2012-09-23		Marlim 286205	RC/CH	9	605744.00	6091999.00	Tributary to Bulkley River	Kitsequecla (30m d/s of 286201)	0.80		Other	Ford										
2012-09-23		Marlim 286202	RC/CH	9	605117.00	6092009.00	Tributary to Bulkley River	Kitsequecla Road	1.40		Closed Bottom Structure	Round Culvert	0.60	12.10	No		No	No		0.40	0.15	0.25
2012-09-23		Marlim 286206	RC/CH	9	605056.00	6091904.00	Tributary to Bulkley River	Kitsequecla Road	1.50		Closed Bottom Structure	Round Culvert	0.60	13.60	No		No	No		1.80	0.4	0.40
2012-09-23		Marlim 286231	RC/CH	9	604723.00	6091151.00	Tributary to Bulkley River	Kitsequecla Road	2.00		Closed Bottom Structure	Round Culvert	0.90	14.30	No		No	No		0.80	0	0.00
2012-09-23		Marlim 286244	RC/CH	9	602469.00	6090388.00	Tributary to Schippers Creek	Kitsequecla Road	5.00		Closed Bottom Structure	Round Culvert	0.60	12.70	No	0.00	No	No	0.00	1.30	0	0.00
2012-09-23		Marlim 286254	RC/CH	9	601957.00	6089822.00	Tributary to Schippers Creek	Private Road 400m d/h of km 4 Kitsequecla Rd	4.00		Closed Bottom Structure	Round Culvert	0.6	7.10	No	0.00	No	No	0.00	0.30	0	0.00
2012-09-23		Marlim 286261	RC/CH	9	602061.00	6089661.00	Tributary to Schippers Creek	Private Road 500m d/h of km 4 Kitsequecla Rd	4.00		Other	Ford										
2012-09-23		Marlim 286250	RC/CH	9	601283.00	6089952.00	Schippers Creek	Kitsequecla Road	6.30		Closed Bottom Structure	Oval Culvert	2.20	18.20	No	0.00	No	No	0.00	0.60	0.3	0.20
2012-09-24		Marlim-11	RC/CH	9	605613.00	6092444.00	Tributary to Bulkley River	Private at 0.7 km Kitsequecla Rd	0.50		Closed Bottom Structure	Round Culvert	1.20	7.00	Yes	0.50	No	No	0.00	0.50	0	0.00
2012-09-24		Marlim 286193	RC/CH	9	605692.00	6092495.00	Tributary to Bulkley River	Private at 0.7 km Kitsequecla Road	0.60		Closed Bottom Structure	Round Culvert	0.60	6.40	Yes	0.25	No	No	0.00	0.40	0	0.00
2012-09-24		Marlim 286190	RC/CH	9	605537.00	6092513.00	Tributary to Bulkley River	Private at 0.7 km Kitsequecla Road	0.60		Other	Ford										
2012-09-24		Marlim 286195	RC/CH	9	604748.00	6092375.00	Tributary to Bulkley River	Private at 1.4 km Kitsequecla Road	0.60		Closed Bottom Structure	Round Culvert	0.45	10.00	No	0.00	No	No	0.00	0.70	0	0.00
2012-09-24		Marlim 284347	RC/CH	9	601244.00	6090100.00	Schippers Creek	Private at 6.3 km Kitsequecla Rd	0.20		Open Bottom Structure	Bridge	4.90	5.10								
2012-09-24		Marlim 284332	RC/CH	9	600345.00	6091249.00	Tributary to Schippers Creek	Private at 6.3 km Kitsequecla Rd	2.30		Closed Bottom Structure	Round Culvert	0.45	9.00	No	0.00	No	No	0.00	1.20	0	0.00
2012-09-24		Marlim 284330	RC/CH	9	599814.00	6091318.00	Schippers Creek	Private at 6.3 km Kitsequecla Rd	2.80		Open Bottom Structure	Bridge	7.30	4.80								
2012-09-24		Marlim 284331	RC/CH	9	600340.00	6091330.00	Tributary to Schippers Creek	Private at 6.3 km Kitsequecla Rd	2.30		Closed Bottom Structure	Round Culvert	0.60	11.20	No	0.00	No	No	0.00	1.20	0	0.00
2012-09-24		Marlim 284343	RC/CH	9	599813.00	6090514.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	1.70		Closed Bottom Structure	Round Culvert	0.45	14.20	No	0.00	No	No	0.00	1.20	0.1	0.05
2012-09-24		Marlim 286238	RC/CH	9	599394.00	6090798.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	2.20		Closed Bottom Structure	Round Culvert	0.60	14.00	No	0.00	No	No	0.00	4.60	0.45	0.00
2012-09-24		Marlim 284338	RC/CH	9	598592.00	6090833.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	3.10		Closed Bottom Structure	Round Culvert	1.00	14.40	No	0.00	No	No	0.00	2.40	0	0.00
2012-09-24		Marlim 284336	RC/CH	9	598455.00	6090885.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	3.20		Closed Bottom Structure	Round Culvert	1.85	19.20	No	0.00	No	No	0.00	7.10	0.29	0.16
2012-09-24		Marlim 284333	RC/CH	9	596802.00	6091051.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	4.90		Closed Bottom Structure	Round Culvert	0.60	17.50	No	0.00	No	No	0.00	1.20	0	0.00
2012-09-24		Marlim 284334	RC/CH	9	596818.00	6091010.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	5.00		Closed Bottom Structure	Round Culvert	0.60	13.80	No	0.00	No	No	0.00	1.00	0.28	0.12
2012-09-24		Marlim 284342	RC/CH	9	599968.00	6090550.00	Tributary to Schippers Creek	Private at 7.3 km Kitsequecla Rd	1.50		Closed Bottom Structure	Round Culvert	0.60	10.20	No	0.00	No	No	0.00	1.00	0	0.00
2012-09-24		Marlim 286277	RC/CH	9	599521.00	6089109.00	Tributary to Schippers Creek	Kitsequecla Road	8.10		Closed Bottom Structure	Round Culvert	0.60	10.90	No	0.00	No	No	0.00	0.65	0.25	0.15
2012-09-24		Marlim 286274	RC/CH	9	599643.00	6089166.00	Tributary to Schippers Creek	Private at 8.1 Kitsequecla Rd	0.20		Closed Bottom Structure	Round Culvert	0.60	10.20	No	0.00	No	No	0.00	0.90	0.08	0.08
2012-09-24		Marlim-12	RC/CH	9	598305.00	6088489.00	Tributary to Trout Creek	Kitsequecla Road	9.50		Closed Bottom Structure	Round Culvert	0.45	10.50	No	0.00	No	No	0.00	0.25	0	0.00
2012-09-24		Marlim 286294	RC/CH	9	597359.00	6088463.00	Tributary to Trout Creek	Kitsequecla Road	10.50		Closed Bottom Structure	Round Culvert	0.60	11.20	No	0.00	No	No	0.00	0.60	0	0.00

2012-09-24		Marlim 286299	RC/CH	9	597229.00	6088419.00	Tributary to Trout Creek	Kitsequecla Road	10.60		Closed Bottom Structure	Round Culvert	0.90	10.30	No	0.00	No	No	0.00	0.80	0	0.00
2012-09-24		Marlim-13	RC/CH	9	596853.00	6088390.00	Tributary to Trout Creek	Kitsequecla Road	11.00		Closed Bottom Structure	Round Culvert	0.60	10.20	No	0.00	No	Yes	5.00	0.25	0.6	0.40
2012-09-25		Marlim 286297	RC/CH	9	597380.00	6088419.00	Trout Creek	Private at 10.4km Kitsequecla rd	0.10		Open Bottom Structure	Bridge	9.70	4.80								
2012-09-25		Marlim-14	RC/CH	9	596184.00	6088447.00	Tributary to Trout Creek	Kitsequecla Road	11.80		Closed Bottom Structure	Round Culvert	0.60	12.10	No	0.00	No	No	0.00	0.45	0.3	0.00
2012-09-25		Marlim 286289	RC/CH	9	595796.00	6088476.00	Tributary to Trout Creek	Kitsequecla Road	12.50		Closed Bottom Structure	Round Culvert	0.45	10.10	No	0.00	No	No	0.00	0.55	0.15	0.05
2012-09-25		Marlim 284328	RC/CH	9	595238.00	6091422.00	Tributary to Trout Creek	Kitsequecla East	10.00		Closed Bottom Structure	Round Culvert	1.00	14.00	Yes	0.10	Yes	No	0.00	1.40	0	0.00
2012-09-25		2	RC/CH	9	595425.00	6091500.00	Tributary to Trout Creek	Kitsequecla East	10.20		Closed Bottom Structure	Round Culvert	1.00	14.20	Yes	0.23	Yes	No	0.00	0.90	0	0.00
2012-09-25		Marlim 284321	RC/CH	9	595764.00	6091624.00	Tributary to Trout Creek	Kitsequecla East	10.50		Closed Bottom Structure	Round Culvert	0.60	14.00	No	0.00	No	No	0.00	0.80	0.11	0.04
2012-09-25		Marlim 284322	RC/CH	9	595845.00	6091635.00	Tributary to Trout Creek	Kitsequecla East	10.60		Closed Bottom Structure	Round Culvert	1.20	14.20	Yes	0.35	Yes	No	0.00	0.60	0	0.00
2012-09-25		Marlim-15	RC/CH	9	596037.00	6091672.00	Tributary to Trout Creek	Kitsequecla East	10.80		Closed Bottom Structure	Round Culvert	1.00	18.00	No	0.00	No	Yes	2.00	2.00	0	0.00
2012-09-25		Marlim 284320	RC/CH	9	596305.00	6091734.00	Tributary to Schippers Creek	Kitsequecla East	11.00		Closed Bottom Structure	Round Culvert	0.60	14.20	No	0.00	No	Yes	60.00	1.20	0	0.00
2012-09-25		Marlim-16	RC/CH	9	596364.00	6091751.00	Tributary to Schippers Creek	Kitsequecla East	11.10		Closed Bottom Structure	Round Culvert	1.00	14.00	No	0.00	No	No	0.00	1.80	0.26	0.24
2012-09-25		Marlim-17	RC/CH	9	596627.00	6091880.00	Tributary to Schippers Creek	Kitsequecla East	11.40		Closed Bottom Structure	Round Culvert	1.00	14.00	No	0.00	No	Yes	30.00	2.70	0	0.00
2012-09-25		Marlim-18	RC/CH	9	596807.00	6091918.00	Tributary to Schippers Creek	Kitsequecla East	11.60		Closed Bottom Structure	Round Culvert	1.00	14.60	No	0.00	No	Yes	3.00	1.80	0.3	0.10
2012-09-25		Marlim 284316	RC/CH	9	597122.00	6092008.00	Tributary to Schippers Creek	Kitsequecla East	11.90		Closed Bottom Structure	Round Culvert	1.00	14.20	Yes	0.25	Yes	No	0.00	0.70	0	0.00
2012-09-25		Marlim-19	RC/CH	9	597145.00	6092368.00	Tributary to Schippers Creek	Branch off Kitsequecla East at 12 km	0.20		Other	Ford										
2012-09-25		Marlim-20	RC/CH	9	597215.00	6092420.00	Tributary to Schippers Creek	Branch off Kitsequecla East at 12 km	0.30		Other	Ford										
2012-09-25		Marlim 286184	RC/CH	9	597352.00	6092538.00	Tributary to Schippers Creek	Branch off Kitsequecla East at 12 km	0.50		Other	Ford										
2012-09-25		Marlim 286346	RC/CH	9	593409.00	6086701.00	Tributary to Trout Creek	Branch off R08762615-1 at ~1.4 km	0.25		Other	Ford										
2012-09-25		Marlim 286295	RC/CH	9	599252.00	6088537.00	Tributary to Trout Creek	Kitseguecla-Trout	0.40		Closed Bottom Structure	Round Culvert	0.60	14.30	No	0.00	No	Yes	80.00	1.10	0.05	0.10
2012-09-25		Marlim 286302	RC/CH	9	599291.00	6088251.00	Trout Creek	Kitseguecla-Trout	0.70		Open Bottom Structure	Bridge	17.10	4.80								
2012-09-25		Marlim 284370	RC/CH	9	599338.00	6088016.00	Trout Creek	Branch off Kitseqguecla-Trout at 1km	0.05		Other	Ford										
2012-09-25		Marlim 284388	RC/CH	9	599757.00	6087087.00	Tributary to Trout Creek	R10836 608A	0.10		Open Bottom Structure	Bridge	4.60	9.70								
2012-09-25		Marlim-21	RC/CH	9	600021.00	6087431.00	Tributary to Trout Creek	R10836 608A	0.60		Open Bottom Structure	Bridge	4.50	4.80								
2012-09-25		Marlim 284386	RC/CH	9	600314.00	6087393.00	Tributary to Trout Creek	R10836 608A	0.90		Closed Bottom Structure	Round Culvert	1.65	18.00	Yes	0.10	Yes	No	0.00	6.80	0	0.00
2012-09-25		Marlim 286301	RC/CH	9	599115.00	6088428.00	Tributary to Trout Creek	Branch off Kitsegecla-Trout at .5 km	0.20		Other	Ford										
2012-09-25		Marlim 286280	RC/CH	9	595738.00	6088849.00	Tributary to Trout Creek	Private at 12.6 km Kitsequecla rd	0.50		Closed Bottom Structure	Round Culvert	1.20	7.10	No	0.00	No	No	0.00	0.15	0	0.00
2012-09-25		Marlim 286264	RC/CH	9	596001.00	6089221.00	Tributary to Trout Creek	Private at 12.6 km Kitsequecla rd	1.00		Other	Ford										
2012-09-26		Marlim 284383	RC/CH	9	600493.00	6087458.00	Tributary to Trout Creek	R10836 608A	1.10		Closed Bottom Structure	Round Culvert	0.50	14.20	No	0.00	No	No	0.00	1.30	0.08	0.00
2012-09-26		Marlim 286335	RC/CH	9	600666.00	6087358.00	Tributary to Trout Creek	Branch off R10836 608A at 1.3 km	0.10		Closed Bottom Structure	Round Culvert	0.45	11.00	No	0.00	No	No	0.00	0.50	0	0.00
2012-09-26		Marlim 284382	RC/CH	9	601597.00	6087528.00	Tributary to Trout Creek	R10836 608A	2.30		Closed Bottom Structure	Oval Culvert	1.40	14.00	No	0.00	No	No	0.00	1.10	0	0.00
2012-09-26		Marlim 284385	RC/CH	9	602464.00	6087517.00	Tributary to Trout Creek	R10836 608A	3.20		Open Bottom Structure	Bridge	4.50	4.80								
2012-09-26		Marlim 286329	RC/CH	9	602469.00	6087667.00	Tributary to Trout Creek	Private at 3.2km R10836 608A	0.20		Other	Ford										
2012-09-26		Marlim 286337	RC/CH	9	602558.00	6087446.00	Tributary to Trout Creek	Branch from R10836 608A at 3.4 km	0.10		Closed Bottom Structure	Round Culvert	0.45	7.10	No	0.00	No	No	0.00	1.20	0	0.00
2012-09-26		Marlim 286333	RC/CH	9	603178.00	6087500.00	Tributary to Trout Creek	R10836 608A	4.00		Open Bottom Structure	Bridge	4.50	9.60								
2012-09-26		Marlim 286331	RC/CH	9	603500.00	6087660.00	Tributary to Trout Creek	R10836 608A	4.40		Closed Bottom Structure	Round Culvert	0.60	12.70	No	0.00	No	No	0.00	2.70	0.1	0.00
2012-09-26		Marlim 286332	RC/CH	9	603628.00	6087668.00	Tributary to Trout Creek	R10836 608A	4.60		Closed Bottom Structure	Round Culvert	0.50	10.50	Yes	0.15	Yes	Yes	50.00	0.60	0	0.00
2012-09-26		Marlim 286341	RC/CH	9	604258.00	6087406.00	Tributary to Trout Creek	R10836 608A	5.30		Closed Bottom Structure	Oval Culvert	1.30	12.20	Yes	0.05	Yes	No	0.00	0.90	0	0.00
2012-10-01		Marlim 284392	RC/CH	9	604125.00	6086936.00	Tributary to Toboggan Creek	branch off R10836 608A-5 at 0.5km	0.30		Closed Bottom Structure	Round Culvert	0.45	9.00	No	0.00	No	No	0.00	0.50	0.1	0.05
2012-10-01		Marlim 284395	RC/CH	9	604363.00	6086678.00	Tributary to Toboggan Creek	branch off R10836 608A-5 at 0.5km	0.60		Closed Bottom Structure	Round Culvert	0.50	12.20	No	0.00	No	No	0.00	0.70	0.2	0.00
2012-10-01		Marlim 284394	RC/CH	9	604328.00	6086720.00	Tributary to Toboggan Creek	branch off R10836 608A-5 at 0.5km	0.55		Closed Bottom Structure	Round Culvert	0.45	9.00	No	0.00	No	No	0.00	0.90	0.06	0.14
2012-10-01		Marlim 286373	RC/CH	9	605061.00	6086150.00	Tributary to Toboggan Creek	branch off R10836 608A-5 at 0.5km	1.60		Closed Bottom Structure	Round Culvert	0.45	11.00	No	0.00	No	No	0.00	0.70	0.04	0.08
2012-10-01		Marlim 284401	RC/CH	9	605736.00	6085891.00	Tributary to Owen Creek	branch off R10836 608A-5 at 0.5km	2.30		Closed Bottom Structure	Round Culvert	1.40	21.00	No	0.00	No	No	0.00	3.20	0.7	0.10
2012-10-01		Marlim 286397	RC/CH	9	606298.00	6085891.00	Tributary to Owen Creek	branch off R10836 608A-5 at 0.5km	3.20		Closed Bottom Structure	Round Culvert	1.40	14.20	No	0.00	No	No	0.00	1.70	0.27	0.13
2012-10-01		Marlim 286390	RC/CH	9	605123.00	6085900.00	Tributary to Toboggan Creek	N/A 300m u/s of 286373			Other	Ford										
2012-10-01		Marlim 286394	RC/CH	9	605083.00	6085851.00	Tributary to Toboggan Creek	N/A 400m u/s of 286373			Other	Ford										
2012-10-02		Marlim 286350	RC/CH	9	603827.00	6086995.00	Tributary to Trout Creek	left branch off R10836 608A-5 at 0.6 km	0.05		Other	Ford										
2012-10-02		Marlim 286349	RC/CH	9	603553.00	6087005.00	Tributary to Trout Creek	left branch off R10836 608A-5 at 0.6 km	0.35		Other	Ford										
2012-10-02		Marlim 286347	RC/CH	9	603373.00	6087117.00	Tributary to Trout Creek	left branch off R10836 608A-5 at 0.6 km	0.45		Other	Ford										
2012-10-02		Marlim 284403	RC/CH	9	603569.00	6085549.00	Tributary to Trout Creek	R10836 608A-5	2.40		Closed Bottom Structure	Round Culvert	1.40	14.00	No	0.00	No	No	0.00	2.10	0.13	0.07
2012-10-02		Marlim 284402	RC/CH	9	603273.00	6085578.00	Tributary to Trout Creek	R10836 608A-5	2.70		Closed Bottom Structure	Round Culvert	1.20	14.00	No	0.00	No	Yes	5.00	3.00	0	0.00
2012-10-02		Marlim 284406	RC/CH	9	602956.00	6085173.00	Tributary to Trout Creek	R10836 608A-5	3.70		Other	Ford										
2012-10-02		Marlim 284389	RC/CH	9	605360.00	6087217.00	Tributary to Toboggan Creek	R10836 608A-B-2	0.30		Closed Bottom Structure	Oval Culvert	1.70	12.20	Yes	0.15	Yes	No	0.00	1.20	0	0.00
2012-10-02		Marlim 284390	RC/CH	9	605904.00	6087196.00	Tributary to Toboggan Creek	R10836 608A-B-2	0.50		Closed Bottom Structure	Round Culvert	1.80	12.00	Yes	0.80	Yes	No		1.60	0	0.00
2012-10-02		Marlim 284391	RC/CH	9	606315.00	6087031.00	Tributary to Toboggan Creek	R10836 608A-B-2	1.00		Closed Bottom Structure	Round Culvert	1.80	12.20	Yes	0.18	Yes	No	0.00	1.60	0	0.00
2012-10-02		Marlim 284398	RC/CH	9	607269.00	6086453.00	Tributary to Owens Creek	R10836 608A-B-2	2.30		Closed Bottom Structure	Round Culvert	0.45	10.20	No	0.00	No	No	0.00	1.00	0.04	0.05
2012-10-02		Marlim 284399	RC/CH	9	607330.00	6086314.00	Owens Creek	R10836 608A-B-2	2.50		Other	Ford										
2012-10-02		Marlim 286323	RC/CH	9	605868.00	6087988.00	Tributary to Toboggan Creek	left branch of R10836 608A at 2 km	0.60		Closed Bottom Structure	Round Culvert	0.45	8.80	No	0.00	No	No	0.00	0.90	0.1	0.10
2012-10-02		Marlim 286317	RC/CH	9	605833.00	6088202.00	Tributary to Toboggan Creek	left branch of R10836 608A at 2 km	1.20		Closed Bottom Structure	Round Culvert	0.50	8.30	No	0.00	No	No	0.00	0.90	0.15	0.00
2012-10-02		Marlim 286327	RC/CH	9	606037.00	6087818.00	Tributary to Toboggan Creek	N/A, 50m d/s of 286327			Other	Ford										
2012-10-02		Marlim 286320	RC/CH	9	606019.00	6088107.00	Tributary to Toboggan Creek	N/A, 100m d/s of 286323			Other	Ford										
2012-10-02		Marlim 286316	RC/CH	9	606067.00	6088129.00	Tributary to Toboggan Creek	N/A, 150m d/s of 286317			Other	Ford										
2012-10-02		Marlim 286330	RC/CH	9	607575.00	6087842.00	Tributary to Toboggan Creek	R 10836 608A	3.40		Closed Bottom Structure	Round Culvert	0.45	8.10	No	0.00	No	No	0.00	0.40	0	0.00
2012-10-02		Marlim 286326	RC/CH	9	607365.00	6087962.00	Tributary to Toboggan Creek	N/A, 30 m u/s of 286330			Other	Ford										
2012-10-02		Marlim 286324	RC/CH	9	607242.00	6088047.00	Tributary to Toboggan Creek	N/A, 50m u/s of 286330			Closed Bottom Structure	Round Culvert	0.60	6.20	No	0.00	No	No	0.00	0.25	0.07	0.10
2012-10-02		Marlim 286342	RC/CH	9	608546.00	6087539.00	Tributary to Toboggan Creek	R 10836 608A	4.50		Closed Bottom Structure	Round Culvert	0.90	12.90	No	0.00	No	No	0.00	0.30	0.15	0.55
2012-10-02		Marlim 286310	RC/CH	9	607619.00	6088418.00	Tributary to Trout Creek	N/A			Other	Ford										
2012-10-03		Marlim-22	RC/CH	9	631096.00	6077599.00	Tributary to Tamara Brook	Bill Main	0.90		Closed Bottom Structure	Round Culvert	1.20	10.00	No	0.00	No	No	0.00	0.70	0.4	0.10
2012-10-03		Marlim 284410	RC/CH	9	631257.00	6077598.00	Tributary to Tamara Brook	Bill Main	1.10		Closed Bottom Structure	Round Culvert	0.45	9.80	No	0.00	No	No	0.00	1.00	0.25	0.10
2012-10-03		Marlim-23	RC/CH	9	631744.00	6077029.00	Gladys Creek	Bill Main	1.90		Closed Bottom Structure	Round Culvert	1.00	10.60	Yes	0.12	Yes	No	0.00	0.70	0	0.00
2012-10-03		Marlim 284412	RC/CH	9	631976.00	6076890.00	Badley Creek	Bill Main	2.10		Other	Ford										
2012-10-03		Marlim 286629	RC/CH	9	634568.00	6074987.00	Tributary to Gonakwa Creek	Lloyd Minerals Inc. Mine rd.	0.20		Other	Ford										
2012-10-03		Marlim 284421	RC/CH	9	635968.00	6072564.00	Tributary to Gonakwa Creek	R10553 1A	1.50		Closed Bottom Structure	Round Culvert	0.40	9.10	No	0.00	No	No	0.00	0.70	0	0.00
2012-10-03		Marlim 284419	RC/CH	9	635046.00	6073243.00	Tributary to Gonakwa Creek	R10553 1B	1.40		Closed Bottom Structure	Round Culvert	0.45	9.20	No	0.00	No	No	0.00	0.80	0.05	0.05
2012-10-03		Marlim 284418	RC/CH	9	635096.00	6073515.00	Tributary to Gonakwa Creek	R10553 1B	1.60		Open Bottom Structure	Bridge	6.20	4.80								

2012-10-03		Marlim 286610	RC/CH	9	630099.00	6075421.00	Tributary to Tamara Brook	N/A			Other	Ford											
2012-10-03		Marlim 286336	RC/CH	9	600261.00	6087327.00	Tributary to Trout Creek	N/A, 100m u/s of 284386			Other	Ford											
2012-10-03		Marlim 286356	RC/CH	9	599563.00	6086868.00	Tributary to Trout Creek	R08762 608-1	2.20		Closed Bottom Structure	Round Culvert	1.20	12.00	No	0.00	No	No	0.00	0.70	0.2	0.10
2012-10-03		Marlim 286359	RC/CH	9	599256.00	6086311.00	Tributary to Trout Creek	30m W of 2.8 km R08762 608-1			Other	Ford											
2012-10-03		Marlim 286364	RC/CH	9	599121.00	6086124.00	Tributary to Trout Creek	R08762 608-1	3.40		Closed Bottom Structure	Round Culvert	0.50	12.60	No	0.00	No	No	0.00	3.30	0	0.00
2012-10-03		Marlim 286375	RC/CH	9	598716.00	6085868.00	Tributary to Trout Creek	R08762 608-1	4.00		Open Bottom Structure	Bridge	12.00	4.90								
2012-10-03		Marlim 286376	RC/CH	9	598443.00	6085802.00	Tributary to Trout Creek	R08762 608-1	4.20		Closed Bottom Structure	Round Culvert	0.60	13.60	No	0.00	No	No	0.00	1.60	0.25	0.25
2012-10-03		Marlim 286378	RC/CH	9	598001.00	6085780.00	Tributary to Trout Creek	R08762 608-1	4.60		Closed Bottom Structure	Round Culvert	0.50	10.00	No	0.00	No	No	0.00	1.70	0	0.00
2012-10-03		Marlim 286393	RC/CH	9	597626.00	6085544.00	Tributary to Trout Creek	R08762 608-1	5.10		Open Bottom Structure	Bridge	12.00	5.00								
2012-10-03		Marlim 286383	RC/CH	9	597170.00	6085621.00	Tributary to Trout Creek	R08762 608-1	5.60		Closed Bottom Structure	Round Culvert	0.60	7.00	Yes	0.50	Yes	Yes	100.00	0.50	0	0.00
2012-10-04		Marlim 286166	RC/CH	9	612276.00	6094487.00	Tributary to Gramophone Creek	N/A, 30m left of 284295			Other	Ford											
2012-10-04		Marlim 284295	RC/CH	9	612235.00	6094499.00	Tributary to Gramophone Creek	R09533 230-1	5.70		Closed Bottom Structure	Round Culvert	0.45	12.50	No	0.00	No	No	0.00	0.55	0.1	0.00
2012-10-04		Marlim 284306	RC/CH	9	612487.00	6093848.00	Gramophone Creek	R09533 230-1	5.00		Open Bottom Structure	Bridge	12.20	4.70								
2012-10-04		Marlim 286203	RC/CH	9	609996.00	6092214.00	Tributary to Gramophone Creek	Telkwa High Road	7.40		Closed Bottom Structure	Round Culvert	0.80	10.50	Yes	0.08	Yes	No	0.00	0.86	0	0.00
2012-10-04		Marlim 286185	RC/CH	9	609726.00	6092873.00	Tributary to Gramophone Creek	Telkwa High Road	6.60		Closed Bottom Structure	Oval Culvert	2.20	15.40	No	0.00	No	No	0.00	1.30	0.25	0.45
2012-10-04		Marlim 286177	RC/CH	9	609660.00	6093554.00	Tributary to Gramophone Creek	Telkwa High Road	5.90		Closed Bottom Structure	Oval Culvert	1.90	14.00	No	0.00	No	No	0.00	0.50	0.27	0.63
2012-10-04		Marlim 286131	RC/CH	9	606562.00	6098120.00	Tributary to Bulkley River		0.20		Closed Bottom Structure	Round Culvert	0.90	9.50	No	0.00	No	No	0.00	0.70	0	0.00
2012-10-04		Marlim 286133	RC/CH	9	606924.00	6097985.00	Tributary to Bulkley River	Fisherman road	0.30		Closed Bottom Structure	Round Culvert	0.60	11.70	Yes	0.23	Yes	No	0.00	1.40	0	0.00
2012-10-04		Marlim 286132	RC/CH	9	606786.00	6098126.00	Tributary to Bulkley River	Fisherman road	0.10		Closed Bottom Structure	Round Culvert	0.60	11.80	Yes	0.15	Yes	No	0.00	0.30	0	0.00
2012-10-04		Marlim 286129	RC/CH	9	606654.00	6098161.00	Tributary to Bulkley River	Moricetown Road Loop	0.00		Closed Bottom Structure	Round Culvert	0.60	17.50	No	0.00	No	No	0.00	0.90	0	0.00
2012-10-04		Marlim 286148	RC/CH	9	606070.00	6095422.00	Tributary to Bulkley River	Highway 16			Closed Bottom Structure	Round Culvert	0.60	74.30	No	0.00	No	No	0.00	9.99	0.45	0.35
2012-10-04		2	RC/CH	9	601341.00	6089849.00	Schippers Creek	Private Access	0.20		Open Bottom Structure	Bridge	5.50	4.40								
2012-10-04		Marlim 286343	RC/CH	9	599383.00	6087048.00	Tributary to Trout Creek	N/A - 250m from R08762 608-1 @ 2 km			Open Bottom Structure	Wood Box Culvert	0.50	8.00								
2012-10-04		Marlim 284409	RC/CH	9	597097.00	6084376.00	Tributary to Trout Creek	R08762 608-1C	1.50		Open Bottom Structure	Bridge	10.40	5.47								
2012-10-04		Marlim 286371	RC/CH	9	597073.00	6085786.00	Tributary to Trout Creek	R08762 608-1 , right branch at 6.7 km	0.30		Open Bottom Structure	Bridge	5.00	3.00								
2012-10-04		Marlim 286380	RC/CH	9	596409.00	6085655.00	Tributary to Trout Creek	R08762 608-1	6.40		Closed Bottom Structure	Round Culvert	0.60	9.30	No	0.00	No	No	0.00	0.50	0	0.00
2012-10-04		Marlim-24	RC/CH	9	596639.00	6085556.00	Tributary to Trout Creek	R08762 608-1			Open Bottom Structure	Bridge	9.70	5.00								
2012-10-04		Marlim 286384	RC/CH	9	596990.00	6085617.00	Tributary to Trout Creek	R08762 608-1	5.80		Open Bottom Structure	Bridge	9.00	4.90								
2012-10-05		Marlim 284263	RC/CH	9	612086.00	6098695.00	Tributary to Wiggs Creek	R09533 230-20	7.40		Closed Bottom Structure	Round Culvert	0.45	11.00	No		No	No		1.00	0	0.00
2012-10-05		Marlim 286144	RC/CH	9	611016.00	6096502.00	Tributary to Wiggs Creek	unnamed left branch of R09533 230-2 @ 1.8km	0.50		Other	Ford											
2012-10-05		Marlim 284278	RC/CH	9	612564.00	6095389.00	Tributary to Gramophone Creek	R09533 230	7.40		Closed Bottom Structure	Round Culvert	0.45	15.40	No		No	No		2.50	0.25	0.05
2012-10-05		Marlim 286126	RC/CH	9	611832.00	6098675.00	Tributary to Wiggs Creek	R09533 230-20	6.50		Other	Ford											
2012-10-05		Marlim 284264	RC/CH	9	611583.00	6098600.00	Tributary to Wiggs Creek	R09533 230-20	5.70		Closed Bottom Structure	Round Culvert	1.00	14.00	No		No	No		0.40	0.08	0.04
2012-10-05		Marlim 284266	RC/CH	9	611581.00	6098225.00	Tributary to Wiggs Creek	R09533 230-20	5.30		Closed Bottom Structure	Round Culvert	0.60	10.60	No		No	No		0.60	0.32	0.28
2012-10-05		Marlim-26	RC/CH	9	611899.00	6097089.00	Tributary to Wiggs Creek	R09533 230-2-2	4.00		Closed Bottom Structure	Round Culvert	1.10	10.20	No		No	Yes	7.00	3.20	0.05	0.05
2012-10-05		Marlim 284274	RC/CH	9	611985.00	6097061.00	Tributary to Wiggs Creek	R09533 230-2-2	3.80		Closed Bottom Structure	Round Culvert	1.00	8.00	No		No	No		2.30	0.05	0.10
2012-10-05		Marlim-25	RC/CH	9	611124.00	6095562.00	Tributary to Wiggs Creek	R09533 230-2	1.70		Open Bottom Structure	Bridge	6.20	4.90								
2012-10-05		Marlim 284277	RC/CH	9	611150.00	6095520.00	Tributary to Wiggs Creek	R09533 230-2	1.60		Closed Bottom Structure	Round Culvert	0.60	10.00	No		No	No		0.50	0.13	0.12
2012-10-05		Marlim 286158	RC/CH	9	611467.00	6095237.00	Tributary to Wiggs Creek	R09533 230-2	1.20		Other	Ford											
2012-10-05		Marlim 284280	RC/CH	9	611487.00	6095252.00	Tributary to Wiggs Creek	R09533 230-2	1.20		Closed Bottom Structure	Round Culvert	0.60	10.60	No		No	No		0.75	0.13	0.42
2012-10-05		Marlim 284279	RC/CH	9	612343.00	6095341.00	Tributary to Gramophone Creek	R09533 230	6.70		Closed Bottom Structure	Round Culvert	0.45	10.60	No		No	No		0.60	0.3	0.00
2012-09-23		Marlim 286248	RC/CH	9	603394.00	6090230.00	Tributary to Schippers Creek	Private	0.40		Other	Ford											
2012-09-23		Marlim 286253	RC/CH	9	601961.00	6089854.00	Tributary to Schippers Creek	Unnamed	0.35		Other	Ford											
2012-10-13		Marlim 285049	MG/JG	9	649096.00	6036806.00	Tributary to Mathews Creek	R07948-15	6.20		Open Bottom Structure	Wood Box Culvert	3.25	8.50								
2012-10-13		Marlim 287788	MG/JG	9	649626.00	6041207.00	Tributary to Helen Lake	Unnamed	1.00		Other	Ford											
2012-10-13		Marlim 287796	MG/JG	9	649925.00	6040938.00	Tributary to Helen Lake	Unnamed	0.60		Other	Ford											
2012-10-13		Marlim 285174	MG/JG	9	636481.00	6031800.00	Tributary to Emerson Creek	R0523704	3.90		Closed Bottom Structure	Round Culvert	0.60	13.00	No		No	No		1.50	0.45	0.25
2012-10-13		Marlim 285174A	MG/JG	9	637508.00	6032040.00	Tributary to Emerson Creek	R0523704	1.70		Closed Bottom Structure	Round Culvert	0.60	9.00	No		No	No		1.25	0.15	0.26
2012-10-13		Marlim 285095	MG/JG	9	635480.00	6035658.00	Tributary to Emerson Creek	R05246B	0.80		Other	Ford											
2012-10-13		Marlim 285098	MG/JG	9	635448.00	6034994.00	Tributary to Bulkley River	R05246-C	0.80		Other	Ford											
2012-10-13		Marlim 285131A	MG/JG	9	637176.00	6033729.00	Tributary to Emerson Creek	R05246-A	0.70		Closed Bottom Structure	Round Culvert	0.50	9.50	No		No	No		0.95	0.02	0.07
2012-10-13		Marlim 285129	MG/JG	9	638850.00	6034313.00	Tributary to Bulkley River	R1431502	0.70		Other	Ford											
2012-10-13		Marlim 285103	MG/JG	9	641502.00	6033181.00	Emerson Creek	R165401	0.20		Other	Ford											
2012-10-14		Marlim 287701	MG/JG	9	634430.00	6043115.00	Tributary to Bulkley River	Unnamed	4.80		Other	Ford											
2012-10-14		Marlim 287692	MG/JG	9	633944.00	6043285.00	Tributary to Bulkley River	Unnamed	4.70		Closed Bottom Structure	Round Culvert	0.60	11.50	No		No	Yes	90.00	1.15	0	0.14
2012-10-14		Marlim 287705	MG/JG	9	633944.00	6042963.00	Tributary to Bulkley River	Unnamed	5.10		Closed Bottom Structure	Round Culvert	0.50	9.00	No		No	No		2.30	1.05	0.25
2012-10-14		Marlim 287734	MG/JG	9	633752.00	6042337.00	Tributary to Bulkley River	Unnamed	5.70		Other	Ford											
2012-10-14		Marlim 287732	MG/JG	9	633868.00	6042385.00	Tributary to Bulkley River	Unnamed	5.70		Other	Ford											
2012-10-14		Marlim 287769	MG/JG	9	634482.00	6041228.00	Tributary to Bulkley River	Unnamed	7.00		Other	Ford											
2012-10-14		Marlim 287769A	MG/JG	9	634569.00	6041387.00	Tributary to Bulkley River	Unnamed	6.90		Other	Ford											
2012-10-14		Marlim 287760	MG/JG	9	634564.00	6041599.00	Tributary to Bulkley River	Unnamed	6.70		Other	Ford											
2012-10-14		Marlim 287761	MG/JG	9	634714.00	6041593.00	Tributary to Bulkley River	Unnamed	6.60		Other	Ford											
2012-10-14		Marlim 287764	MG/JG	9	634872.00	6041528.00	Tributary to Bulkley River	Unnamed	6.50		Other	Ford											
2012-10-14		Marlim 287720	MG/JG	9	635966.00	6042874.00	Tributary to Bulkley River	Unnamed	2.40		Closed Bottom Structure	Round Culvert	0.90	18.50	No		No	No		3.60	0.26	0.43
2012-10-14		Marlim 287736	MG/JG	9	636027.00	6042431.00	Tributary to Bulkley River	Unnamed	4.90		Other	Ford											
2012-10-14		Marlim 287756	MG/JG	9	635321.00	6041906.00	Tributary to Bulkley River	Unnamed	6.00		Other	Ford											
2012-10-14		Marlim 287771	MG/JG	9	637233.00	6041417.00	Tributary to Bulkley River	Unnamed	4.50		Other	Ford											
2012-10-15		Marlim 286709	MG	9	638241.00	6072773.00	Tributary to Canyon Creek	Unnamed	3.10		Other	Ford											
2012-10-15		Marlim 286684	MG	9	638062.00	6073420.00	Tributary to Canyon Creek	Unnamed	3.90		Other	Ford											
2012-10-15		Marlim 286713	MG	9	638954.00	6072666.00	Tributary to Canyon Creek	Unnamed	3.40		Other	Ford											
2012-10-15		Marlim 286706	MG	9	638972.00	6072717.00	Tributary to Canyon Creek	Unnamed	3.80		Other	Ford											
2012-10-15		Marlim 286720	MG	9	638805.00	6072501.00	Tributary to Canyon Creek	Unnamed	3.00		Open Bottom Structure	Bridge	10.50	6.50								
2012-10-15		Marlim 284413A	MG	9	633356.00	6075045.00	Tributary to Gonakwa Creek	R10553-2	0.40		Closed Bottom Structure	Round Culvert	1.05	13.50	No		No	No		2.20	0.1	0.09
2012-10-15		Marlim 284413B	MG	9	633415.00	6074961.00	Tributary to Gonakwa Creek	R10553-2	0.70		Closed Bottom Structure	Round Culvert	1.05	13.50	No		No	No		1.90	0.05	0.08
2012-10-15		Marlim 284413	MG	9	633843.00	6074622.00	Tributary to Gonakwa Creek	R10553-2	1.00		Open Bottom Structure	Bridge	7.45	4.80								

2012-10-15		Marlim 284413C	MG	9	633893.00	6074521.00	Tributary to Gonakwa Creek	R10553-2	1.40		Closed Bottom Structure	Round Culvert	0.40	8.00	No		No	Yes	50.00	1.50	0.12	0.29
2012-10-15		Marlim 284416	MG	9	633943.00	6074310.00	Tributary to Gonakwa Creek	R10553-2	1.80		Open Bottom Structure	Bridge	7.95	4.75								
2012-10-15		Marlim 284417A	MG	9	634128.00	6074027.00	Tributary to Gonakwa Creek	R10553 2	1.90		Closed Bottom Structure	Round Culvert	0.40	10.50	No		No	No		0.85	0.18	0.19
2012-10-15		Marlim 284417	MG	9	634103.00	6073804.00	Tributary to Gonakwa Creek	R10553-2	2.00		Open Bottom Structure	Bridge	8.50	5.00								
2012-10-15		Marlim 284417B	MG	9	633850.00	6074147.00	Tributary to Gonakwa Creek	R10553-2	2.30		Open Bottom Structure	Bridge	7.60	4.85								
2012-10-15		Marlim 286652	MG	9	631704.00	6074043.00	Tributary to Gonakwa Creek	R09533	2.00		Other	Ford										
2012-10-15		Marlim 286653	MG	9	631023.00	6074037.00	Tributary to Gonakwa Creek	R09533	1.90		Other	Ford										
2012-10-15		Marlim 286657	MG	9	631973.00	6074032.00	Tributary to Gonakwa Creek	R09533	1.70		Other	Ford										
2012-10-15		Marlim 284415	MG	9	632477.00	6074223.00	Tributary to Gonakwa Creek	R09533	0.90		Other	Ford										
2012-10-15		Marlim 286646	MG	9	632538.00	6074447.00	Tributary to Gonakwa Creek	R09533	0.60		Other	Ford										
2012-10-16		Marlim 284414	MG	9	632581.00	6074577.00	Tributary to Gonakwa Creek	R09533	0.60		Other	Ford										
2012-10-16		Marlim 286649	MG	9	631056.00	6074362.00	Gonakwa Creek	Unnamed	1.20		Closed Bottom Structure	Round Culvert	0.90	13.00	No		No	No		1.40	0	0.00
2012-10-16		Marlim 284461	MG	9	632954.00	6068349.00	Tributary to Canyon Creek	McDowell Br 02	1.20		Other	Ford										
2012-10-16		Marlim 286459	MG	9	607404.00	6083200.00	Tributary to Toboggan Creek	6300	2.60		Closed Bottom Structure	Round Culvert	0.60	6.00	No		No	No		1.10	0.27	0.30
2012-10-16		Marlim 286459A	MG	9	607115.00	6083426.00	Tributary to Toboggan Creek	6300	3.10		Closed Bottom Structure	Round Culvert	0.48	8.00	No		No	No		1.95	1.2	0.00
2012-10-16		Marlim 286437	MG	9	607003.00	6084109.00	Tributary to Toboggan Creek	6300	3.80		Open Bottom Structure	Wood Box Culvert	0.23	11.00								
2012-10-17		Marlim 286372	MG	9	595410.00	6085745.00	Tributary to Trout Creek	6300	0.90		Closed Bottom Structure	Round Culvert	0.60	14.00	No		Yes	Yes	100.00	0.50	0	1.50
2012-10-17		Marlim 286372A	MG	9	595521.00	6085787.00	Tributary to Trout Creek	Unnamed	0.90		Other	Ford										
2012-10-17		Marlim 286370	MG	9	595589.00	6085786.00	Tributary to Trout Creek	Unnamed	1.00		Other	Ford										
2012-10-17		Marlim 286418	MG	9	597383.00	6084505.00	Tributary to Trout Creek	Unnamed	0.40		Other	Ford										
2012-10-17		Marlim 286400	MG	9	598021.00	6085369.00	Tributary to Trout Creek	Unnamed	0.70		Other	Ford										
2012-10-21		Marlim 284407	MG	9	604147.00	6085142.00	Tributary to Trout Creek	R10836 608A-5-2	0.30		Other	Ford										
2012-10-21		Marlim 284270	MG	9	612499.00	6097666.00	Tributary to Wiggs Creek	R09533 230-2C	0.50		Other	Ford										
2012-10-10		Marlim 286181	RM/CH	9	611865.00	6093384.00	Tributary to Gramophone Creek	Branch off of R16340 3 at 0.8km	0.00		Other	Ford										
2012-10-10		Marlim 286179	RM/CH	9	611643.00	6093596.00	Tributary to Gramophone Creek	Branch off of R16340 3 at 0.8km	0.50		Other	Ford										
2012-10-10		Marlim 286170	RM/CH	9	611888.00	6094336.00	Wiggs Creek	Branch off R13850 at 0.5km	0.20		Other	Ford										
2012-10-10		Marlim 286151	RM/CH	9	612481.00	6095608.00	Tributary to Wiggs Creek	Branch off 8000 Rd at 7.0km curve	0.10		Closed Bottom Structure	Round Culvert	0.45	7.00	No		No	No		0.20	0	0.00
2012-10-10		Marlim 286159	RM/CH	9	613782.00	6095313.00	Tributary to Gramophone Creek	Branch off 8000 Rd at 8.8 km	0.10		Other	Ford										
2012-10-10		Marlim 284288	RM/CH	9	612852.00	6094759.00	Wiggs Creek	R09533 236 2A	0.50		Closed Bottom Structure	Round Culvert	0.45	12.00	No		No	No		1.00	0.3	0.00
2012-10-10		Marlim 286157	RM/CH	9	613804.00	6095368.00	Tributary to Gramophone Creek	8000 Rd	8.90		Closed Bottom Structure	Round Culvert	0.90	17.00	No		No	No		1.80	0.75	0.22
2012-10-10		Marlim 286153	RM/CH	9	613836.00	6095572.00	Tributary to Gramophone Creek	Branch off 8000 Rd at 9 km	0.20		Other	Ford										
2012-10-10		Marlim 286147	RM/CH	9	613960.00	6095924.00	Tributary to Gramophone Creek	Branch off 8000 Rd at 9.3 km	0.50		Other	Ford										
2012-10-10		Marlim 284276	RM/CH	9	614382.00	6096531.00	Tributary to Gramophone Creek	811 Rd	0.40		Closed Bottom Structure	Round Culvert	0.50	10.50	No		No	No		0.60	0	0.40
2012-10-10		Marlim 284275	RM/CH	9	614025.00	6096915.00	Tributary to Wiggs Creek	811 Rd	0.90		Closed Bottom Structure	Round Culvert	0.60	19.00	No		No	No		3.20	0.2	0.36
2012-10-10		Marlim 284269	RM/CH	9	612969.00	6097673.00	Tributary to Wiggs Creek	811 Rd	2.80		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		0.70	0.1	0.20
2012-10-10		Marlim 284262	RM/CH	9	613575.00	6098815.00	Tributary to Wiggs Creek	811 Rd	4.00		Closed Bottom Structure	Round Culvert	0.45	9.50	No		No	No		1.40	0	0.00
2012-10-10		Marlim 284272	RM/CH	9	616653.00	6097543.00	Tributary to Gramophone Creek	8000 Rd	14.10		Closed Bottom Structure	Round Culvert	1.20	14.50	No		No	No		1.10	0.37	0.22
2012-10-10		Marlim 284273	RM/CH	9	617143.00	6097511.00	Tributary to Gramophone Creek	8000 Rd	14.60		Closed Bottom Structure	Round Culvert	1.20	12.20	No		No	No		0.45	0	0.06
2012-10-10		Marlim 286136	RM/CH	9	614905.00	6097621.00	Tributary to Wiggs Creek	Branch off 8000 Rd at 12.4km	0.30		Open Bottom Structure	Bridge	0.15	6.00								
2012-10-10		Marlim 286138	RM/CH	9	614778.00	6097524.00	Tributary to Wiggs Creek	Branch off 8000 Rd at 12.1km	0.10		Other	Ford										
2012-10-10		Marlim 286140	RM/CH	9	614527.00	6097308.00	Tributary to Wiggs Creek	Branch off 8000 Rd at 11.9 km	0.20		Other	Ford										
2012-10-10		Marlim 286161	RM/CH	9	614279.00	6095276.00	Tributary to Gramophone Creek	Branch off 8000 Rd at 9.2 km	0.20		Other	Ford										
2012-10-10		Marlim 286162	RM/CH	9	614118.00	6095164.00	Tributary to Gramophone Creek	R09533 230 2B	0.30		Closed Bottom Structure	Round Culvert	0.45	13.00	No		No	No		1.50	0.45	0.30
2012-10-10		Marlim 284281	RM/CH	9	614089.00	6095121.00	Tributary to Gramophone Creek	Branch off 8000 Rd at 8.8 km	0.30		Other	Ford										
2012-10-11		Marlim 286366	RM/CH	9	610369.00	6086502.00	Toboggan Creek	Farm road on west side of Highway 16, across from Engman Road	0.20		Open Bottom Structure	Bridge	12.50	5.50								
2012-10-11		Marlim 286368	RM/CH	9	610409.00	6086426.00	Toboggan Creek	Farm road on west side of Highway 16, across from Engman Road	0.10		Other	Ford										
2012-10-11		Marlim 286362	RM/CH	9	608981.00	6086697.00	Owen's Creek	Driveway/ farm road at end of Owens Road	0.40		Other	Ford										
2012-10-11		Marlim 286362A	RM/CH	9	609004.00	6086721.00	Owen's Creek	Driveway/ farm road at end of Owens Road	0.40		Other	Ford										
2012-10-11		Marlim 286233	RM/CH	9	604529.00	6091132.00	Tributary to Bulkley River	Branch off of Kitsequecla Road at 1.3 km	0.20		Other	Ford										
2012-10-11		Marlim 286270	RM/CH	9	603795.00	6089378.00	Tributary to Schippers Creek	Branch off of Kitsequecla Road at 2.6 km	2.10		Other	Ford										
2012-10-11		Marlim 286266	RM/CH	9	603751.00	6089501.00	Tributary to Schippers Creek	Branch off of Kitsequecla Road at 2.6 km	2.00		Other	Ford										
2012-10-11		Marlim 286284	RM/CH	9	603054.00	6089070.00	Schippers Creek	Branch off of Kitsequecla Road at 2.6 km	3.80		Open Bottom Structure	Bridge	6.00	5.00								
2012-10-11		Marlim 286255	RM/CH	9	601330.00	6089794.00	Schippers Creek	Branch off of Kitsequecla Road at 4.9 km	0.20		Other	Ford										
2012-10-11		Marlim 286315	RM/CH	9	599769.00	6087920.00	Tributary to Trout Creek	Branch off of 6008 Road at 1.0km- toward east	0.40		Closed Bottom Structure	Round Culvert	1.60	7.00	No		No	No		0.20	0	0.00
2012-10-11		Marlim 286311	RM/CH	9	600187.00	6088041.00	Tributary to Trout Creek	Branch off of 6008 Road at 1.0km- toward east	0.70		Closed Bottom Structure	Round Culvert	0.90	5.50	No		No	No		0.20	0	0.00
2012-10-11		Marlim 284376	RM/CH	9	598605.00	6087701.00	Tributary to main creek in watershed 1316	R098942	0.80		Other	Ford										
2012-10-14		Marlim 286583	RM/CH	9	614260.00	6075386.00	Tributary to Simpson Creek	Nelson Road	1.00		Closed Bottom Structure	Round Culvert	0.60	14.00	No		No	No		1.20	0.1	0.20
2012-10-11		Marlim 284375	RM/CH	9	598425.00	6087755.00	Tributary to main creek in watershed 1316	R098942	1.00		Other	Ford										
2012-10-11		Marlim 286319	RM/CH	9	598378.00	6087785.00	Main creek in watershed 1316	R098942	1.10		Other	Ford										
2012-10-11		Marlim 286293	RM/CH	9	601205.00	6088649.00	Tributary to Trout Creek	Creek	2.20		Closed Bottom Structure	Round Culvert	0.20	5.50	No		No	No		0.60	0	0.00
2012-10-11		Marlim 286291	RM/CH	9	602412.00	6088734.00	Tributary to Trout Creek	Branch off of Kitsequecla Lake Road at 4.9 km	2.00		Other	Ford										
2012-10-11		Marlim 286281	RM/CH	9	602152.00	6089076.00	Tributary to Schippers Creek	Branch off of Kitsequecla Lake Road at 4.9 km	1.30		Other	Ford										
2012-10-12		Marlim 284369	RM/CH	9	597324.00	6088100.00	Tributary to Trout Creek	Branch off of Kitsequecla Lake Road at 10.5 km	0.50		Closed Bottom Structure	Round Culvert	0.60	9.00	No		No	No		0.70	0	0.00
2012-10-12		Marlim 286334A	RM/CH	9	599243.00	6087423.00	Tributary to Trout Creek	New road off 6008 Road at 1.3 km	0.00		Open Bottom Structure	Bridge	9.50	4.50								
2012-10-12		Marlim 286334B	RM/CH	9	599211.00	6087437.00	Tributary to Trout Creek	New road off 6008 Road at 1.3 km	0.10		Open Bottom Structure	Bridge	15.50	4.50								
2012-10-12		Marlim 286303	RM/CH	9	599586.00	6088300.00	Trout Creek	Branch off 6008 Road at 0.6km	0.40		Other	Ford										
2012-10-12		Marlim 286308	RM/CH	9	600463.00	6088147.00	Tributary to Trout Creek	Creek	1.30		Closed Bottom Structure	Round Culvert	0.25	6.30	No		No	No		0.40	0	0.00
2012-10-17		Marlim 284292	RC/RM	9	623180.00	6095165.00	Tributary to Reiseter Creek	9000	14.70		Open Bottom Structure	Bridge	12.80	4.50								
2012-10-12		Marlim 286276	RM/CH	9	599363.00	6089119.00	Tributary to Schippers Creek	Branch off Lake Kitsequecla Road at 8 km	0.10		Closed Bottom Structure	Round Culvert	0.50	9.90	No		No	No		0.45	0.08	0.14
2012-10-12		Marlim 286289	RM/CH	9	598960.00	6089180.00	Tributary to Schippers Creek	Branch off Lake Kitsequecla Road at 8 km	0.60		Closed Bottom Structure	Round Culvert	0.45	7.00	No		No	No		0.15	0	0.00
2012-10-12		Marlim 286272	RM/CH	9	598456.00	6089122.00	Tributary to Schippers Creek	Branch off Lake Kitsequecla Road at 8 km	1.10		Closed Bottom Structure	Round Culvert	0.45	7.40	No		No	No		0.60	0.2	0.00
2012-10-12		Marlim 286265	RM/CH	9	600823.00	6089408.00	Tributary to Schippers Creek	Branch off Lake Kitsequecla Road at 6.9 km	1.00		Closed Bottom Structure	Round Culvert	0.80	8.00	No		No	Yes	100.00	0.40	0	0.32
2012-10-12		Marlim 286178	RM/CH	9	614128.00	6093698.00	Tributary to Gramophone Creek	Branch off 803 Rd at 2.2 km	0.40		Closed Bottom Structure	Round Culvert	0.50	8.50	No		No	No		0.90	0	0.00
2012-10-12		Marlim 286174	RM/CH	9	614043.00	6094182.00	Tributary to Gramophone Creek	Branch off 803 Rd at 2.2 km	0.80		Other	Ford										
2012-10-12		Marlim 286169	RM/CH	9	613725.00	6094315.00	Tributary to Gramophone Creek	Branch off 803 Rd at 2.2 km	1.10		Other	Ford										

2012-10-12		Marlim 284312	RM/CH	9	615960.00	6093549.00	Tributary to Gramophone Creek	803 Road	5.00		Closed Bottom Structure	Round Culvert	0.60	11.50	No		No	No		0.90	1.2	0.15
2012-10-12		Marlim 284311	RM/CH	9	616035.00	6093582.00	Tributary to Gramophone Creek	803 Road	5.10		Open Bottom Structure	Bridge	10.00	4.50								
2012-10-13		Marlim 286538	RM/CH	9	615406.00	6077502.00	Tributary to Kathlyn Lake	Middle Road	0.10		Closed Bottom Structure	Round Culvert	0.50	14.00	No		No	No		2.30	0	1.40
2012-10-13		Marlim 286633	RM/CH	9	616207.00	6074118.00	Kathlyn Creek	Highway 16			Closed Bottom Structure	Oval Culvert	3.60	20.00	No		No	No		1.90	0.1	0.60
2012-10-13		Marlim 286647	RM/CH	9	616144.00	6073870.00	Kathlyn Creek	Calgary Street	0.10		Open Bottom Structure	Bridge	10.00	9.00								
2012-10-13		Marlim 286651	RM/CH	9	615911.00	6073479.00	Tributary to Kathlyn Creek	Walking trail at south end of Simcoe Avenue	0.20		Open Bottom Structure	Bridge	9.50	4.00								
2012-10-13		Marlim 286644	RM/CH	9	615221.00	6073874.00	Tributary to Kathlyn Creek	Muir Road	0.60		Closed Bottom Structure	Round Culvert	1.20	14.00	No		No	No		1.40	0.5	0.50
2012-10-13		Marlim 286640	RM/CH	9	614541.00	6073846.00	Tributary to Kathlyn Creek	Boyle Road	0.50		Closed Bottom Structure	Round Culvert	0.80	16.50	No		No	No		2.20	0.3	0.00
2012-10-13		Marlim 286640A	RM/CH	9	614437.00	6074292.00	Creek not on map	Slack Road	1.60		Open Bottom Structure	Bridge	7.00	5.50								
2012-10-13		Marlim 286658	RM/CH	9	616506.00	6073356.00	Kathlyn Creek	Road on Golf Course	0.20		Open Bottom Structure	Bridge	12.50	6.00								
2012-10-13		Marlim 286664	RM/CH	9	616948.00	6073204.00	Kathlyn Creek	Highway 16			Closed Bottom Structure	Oval Culvert	3.00	30.00	No		No	No		3.20	0	0.00
2012-10-13		Marlim 286599	RM/CH	9	615488.00	6074991.00	Kathlyn Creek	Highway 16			Closed Bottom Structure	Oval Culvert	4.00	20.00	Yes	0.20	Yes	No		2.00	0	0.55
2012-10-13		Marlim 286606	RM/CH	9	615536.00	6074919.00	Kathlyn Creek	Powell Frontage Rd.	0.20		Open Bottom Structure	Bridge	4.50	4.00								
2012-10-13		Marlim 286599A	RM/CH	9	615381.00	6075124.00	Simpson Creek	Lake Kathlyn Road (from South end)	0.20		Closed Bottom Structure	Round Culvert	2.40	20.00	No		No	No		2.20	0	0.15
2012-10-13		Marlim 286574	RM/CH	9	614615.00	6076033.00	Tributary to Kathlyn Lake	Lake Kathlyn Road (from South end)	1.70		Closed Bottom Structure	Round Culvert	1.60	12.00	Yes	0.10	Yes	No		1.40	0	0.00
2012-10-13		Marlim 286576	RM/CH	9	614338.00	6075936.00	Tributary to Kathlyn Lake	Driveway off Lake Kathlyn Road at 1.9km from south end	0.20		Closed Bottom Structure	Round Culvert	1.20	5.00	No		No	No		0.30	0	0.35
2012-10-13		Marlim 286533	RM/CH	9	612345.00	6077605.00	Tributary to Club Creek	Branch off Glacier Gulch Road at 1.6km	0.70		Open Bottom Structure	Bridge	10.00	5.00								
2012-10-13		Marlim 286537	RM/CH	9	612245.00	6077404.00	Tributary to Club Creek	Branch off Glacier Gulch Road at 1.6km	0.50		Other	Ford										
2012-10-13		Marlim 286562	RM/CH	9	612051.00	6076650.00	Tributary to Kathlyn Creek	Private road off of Glacier Gulch Road at 2.2km	0.40		Closed Bottom Structure	Round Culvert	0.60	9.30	No		No	No		1.00	0.2	0.00
2012-10-13		Marlim 286559	RM/CH	9	614392.00	6076986.00	Club Creek	Lake Kathlyn Road (from South end)	4.90		Closed Bottom Structure	Oval Culvert	1.40	19.00	Yes	0.35	Yes	No		0.70	0	0.20
2012-10-13		Marlim 286536	RM/CH	9	614024.00	6077494.00	Tributary to Club Creek	Rod and Gun Access Road from Kroeker Road	0.10		Closed Bottom Structure	Round Culvert	0.50	12.00	No		No	No		1.30	0	0.00
2012-10-13		Marlim 286542	RM/CH	9	613909.00	6077240.00	Club Creek	Rod and Gun Access Road from Kroeker Road	0.40		Closed Bottom Structure	Round Culvert	1.20	5.00	No		No	No		0.70	0.1	0.50
2012-10-13		Marlim 286545	RM/CH	9	614750.00	6077188.00	Tributary to Kathlyn Lake	Lake Kathlyn Road (from North end)	0.80		Closed Bottom Structure	Round Culvert	0.60	15.00	Yes	0.03	Yes	No		2.10	0	0.00
2012-10-13		Marlim 286548	RM/CH	9	614755.00	6077168.00	Tributary to Kathlyn Lake	Driveway off Lake Kathlyn road at 0.8 km from north end	0.00		Closed Bottom Structure	Round Culvert	0.60	6.00	No		No	No		0.60	0	0.00
2012-10-13		Marlim 286530	RM/CH	9	616319.00	6078101.00	Tributary to Kathlyn Lake	Yellich Road	1.00		Closed Bottom Structure	Round Culvert	0.50	8.50	Yes	0.20	Yes	No		0.25	0	0.00
2012-10-13		Marlim 286550	RM/CH	9	615895.00	6077199.00	Tributary to Kathlyn Lake	Highway 16			Closed Bottom Structure	Round Culvert	0.60	19.00	No		No	No		1.20	0	0.20
2012-10-14		Marlim 286592	RM/CH	9	614279.00	6075193.00	Tributary to Simpson Creek	Nelson Road	0.90		Closed Bottom Structure	Round Culvert	0.80	14.00	No		No	No		1.00	0	0.25
2012-10-14		Marlim 287785	MG	9	637793.00	6040775.00	Tributary to Bulkley River	Unnamed	3.50		Closed Bottom Structure	Round Culvert	0.48	14.00	No		No	No		1.90	0	0.00
2012-10-14		Marlim 286579	RM/CH	9	614065.00	6075633.00	Tributary to Kathlyn Lake	Nelson Road	1.40		Closed Bottom Structure	Round Culvert	1.60	14.00	Yes	0.35	Yes	No		1.00	0	0.00
2012-10-14		Marlim 286584	RM/CH	9	614241.00	6075376.00	Tributary to Simpson Creek	Husky Road	0.00		Closed Bottom Structure	Round Culvert	0.45	8.00	No		No	No		3.00	0.2	0.15
2012-10-14		Marlim 286587	RM/CH	9	613968.00	6075319.00	Tributary to Simpson Creek	Husky Road	0.30		Closed Bottom Structure	Round Culvert	0.90	5.50	Yes	0.35	Yes	No		0.35	0	0.10
2012-10-14		Marlim 286585	RM/CH	9	614504.00	6075375.00	Simpson Creek	Driveway to 40640 Nelson Road	0.20		Closed Bottom Structure	Round Culvert	1.70	9.00	No		No	No		0.40	0	0.00
2012-10-14		Marlim 286592A	RM/CH	9	614281.00	6074931.00	Simpson Creek	Nelson Road	0.70		Closed Bottom Structure	Oval Culvert	2.40	24.00	No		No	No		0.50	0.9	1.30
2012-10-22		Marlim 287909A	MG	9	637800.00	6037994.00	Tributary to Dockrill Creek	Unnamed	2.80		Open Bottom Structure	Wood Box Culvert	0.35	8.00								
2012-10-14		Marlim 286620	RM/CH	9	616292.00	6074568.00	Tributary to Kathlyn Creek	Elgin Road	0.50		Closed Bottom Structure	Round Culvert	0.80	13.20	No		No	No		0.70	0	0.00
2012-10-14		Marlim 286602	RM/CH	9	616281.00	6074986.00	Tributary to Kathlyn Creek	Elgin Road	1.00		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.80	0	0.00
2012-10-14		Marlim 286612	RM/CH	9	616090.00	6074805.00	Tributary to Kathlyn Creek	Corner of Lund Ave and Elgin Street	0.00		Closed Bottom Structure	Round Culvert	0.60	11.50	No		No	No		0.50	0	0.50
2012-10-14		Marlim 286617	RM/CH	9	616098.00	6074584.00	Kathlyn Creek	Lund Ave	0.30		Open Bottom Structure	Bridge	6.50	7.50								
2012-10-14		Marlim 286613	RM/CH	9	615703.00	6074784.00	Kathlyn Creek	16	0.10		Open Bottom Structure	Bridge	7.00	3.80								
2012-10-14		Marlim 286616	RM/CH	9	615889.00	6074576.00	Kathlyn Creek	Henry Road	0.10		Closed Bottom Structure	Round Culvert	2.70	13.00	No		No	No		0.50	0	0.00
2012-10-14		Marlim 286676A	RM/CH	9	616530.00	6072577.00	Chicken Creek	Railway Avenue	0.20		Closed Bottom Structure	Round Culvert	1.80	24.50	Yes	0.20	Yes	No		1.40	0	0.15
2012-10-15		Marlim 284308	RC/RM	9	616055.00	6093655.00	Tributary to Gramophone Creek	308 Road	5.30		Closed Bottom Structure	Round Culvert	0.95	9.50	No		No	No		0.50	0.28	0.37
2012-10-15		Marlim 284300	RC/RM	9	616060.00	6094279.00	Tributary to Gramophone Creek	308 Road	6.10		Closed Bottom Structure	Round Culvert	0.50	12.00	No		No	No		0.20	0.15	0.30
2012-10-15		Marlim 284284	RC/RM	9	616751.00	6095010.00	Tributary to Gramophone Creek	308 Road (N loop)	7.20		Closed Bottom Structure	Round Culvert	0.60	9.00	No		No	Yes	25.00	0.70	0.05	0.15
2012-10-15		Marlim 284285	RC/RM	9	618437.00	6095044.00	Tributary to Gramophone Creek	308 Road (N loop)	9.70		Closed Bottom Structure	Round Culvert	1.00	9.00	No		No	No		1.00	0	0.00
2012-10-15		Marlim 284286	RC/RM	9	618940.00	6095059.00	Tributary to Gramophone Creek	308 Road (N loop)	10.30		Closed Bottom Structure	Round Culvert	0.50	9.00	No		No	No		0.50	0	0.00
2012-10-15		1	RC/RM	9	619043.00	6095038.00	Tributary to Gramophone Creek	308 Road (N loop)	10.40		Closed Bottom Structure	Round Culvert	0.45	9.50	No		No	No		0.35	0.3	0.25
2012-10-15		Marlim 284301	RC/RM	9	618532.00	6094366.00	Tributary to Gramophone Creek	308 Road (N loop)	12.20		Closed Bottom Structure	Round Culvert	0.80	12.00	No		No	No		0.70	0.05	0.15
2012-10-15		Marlim 284299	RC/RM	9	616874.00	6091108.00	Tributary to Gramophone Creek	308 Road (N loop)	14.80		Closed Bottom Structure	Round Culvert	0.60	10.00	No		No	No		0.40	0	0.00
2012-10-15		Marlim 286172	RC/RM	9	616759.00	6094396.00	Tributary to Gramophone Creek	308 Road (N loop)	14.90		Open Bottom Structure	Wood Box Culvert	0.25	8.20								
2012-10-15		Marlim 286173	RC/RM	9	615835.00	6094337.00	Tributary to Gramophone Creek	Branch off 308 Road at 5.7km	0.20		Other	Ford										
2012-10-15		Marlim 286171	RC/RM	9	615828.00	6094360.00	Tributary to Gramophone Creek	Branch off 308 Road at 5.7km	0.20		Open Bottom Structure	Bridge	3.00	6.00								
2012-10-16		Marlim 286210	RC/RM	9	609321.00	6091975.00	Tributary to Gramophone Creek	Fenceline access, 200 m N of end of fenceline			Other	Ford										
2012-10-16		Marlim 286182	RC/RM	9	609113.00	6093139.00	Wiggs Creek	Private off Telkwa High Road at 6.4km	0.60		Other	Ford										
2012-10-16		Marlim 286176	RC/RM	9	609801.00	6093842.00	Wiggs Creek	Private off Telkwa High Road at 5.9km	0.30		Other	Ford										
2012-10-16		Marlim 286600	RC/RM	9	615398.00	6074965.00	Tributary to Kathlyn Creek	Proctor Junction	0.02		Closed Bottom Structure	Round Culvert	0.60	11.50	No		No	No		0.20	0.4	0.40
2012-10-16		Marlim 286663	RC/RM	9	616826.00	6073243.00	Chicken Creek	Private off Hwy 16	0.05		Open Bottom Structure	Bridge	13.50	4.50								
2012-10-16		2	RC/RM	9	616842.00	6073238.00	Chicken Creek	Private off Hwy 16	0.05		Open Bottom Structure	Bridge	13.00	3.00								
2012-10-16		Marlim 286676B	RC/RM	9	616404.00	6072652.00	Chicken Creek	Zobnick Road	0.20		Closed Bottom Structure	Round Culvert	0.95	14.00	No		No	No		0.90	0.05	0.50
2012-10-16		Marlim 286676	RC/RM	9	616565.00	6072688.00	Chicken Creek	Alfred Ave (from Toronto Street)	0.30		Closed Bottom Structure	Round Culvert	2.00	35.00	No		No	No		3.40	0.2	0.15
2012-10-16		Marlim 286668	RC/RM	9	617421.00	6072983.00	Tributary to Kathlyn Creek	Astlais Place	0.25		Closed Bottom Structure	Round Culvert	1.40	17.50	No		No	No		0.20	0	0.00
2012-10-16		Marlim 286667	RC/RM	9	617357.00	6073026.00	Tributary to Kathlyn Creek	Astlais Place	0.30		Closed Bottom Structure	Round Culvert	0.80	12.00	No		No	Yes	75.00	1.40	0.05	0.20
2012-10-16		Marlim 286655	RC/RM	9	618082.00	6073468.00	Kathlyn Creek	10th Avenue from Columbia	1.10		Open Bottom Structure	Bridge	18.00	9.00								
2012-10-17		Marlim 284373	RC/RM	9	622616.00	6088804.00	Tributary to Reiseter Creek	9000-4B	0.80		Closed Bottom Structure	Round Culvert	1.00	9.00	No		No	No		0.60	0.2	0.05
2012-10-17		Marlim 284368	RC/RM	9	622788.00	6089173.00	Tributary to Reiseter Creek	9000	28.00		Closed Bottom Structure	Round Culvert	0.50	11.50	No		No	No		1.10	0.13	0.00
2012-10-17		Marlim 284366	RC/RM	9	622931.00	6089292.00	Tributary to Reiseter Creek	9000	27.60		Closed Bottom Structure	Round Culvert	0.45	12.00	No		No	No		0.60	0.1	0.00
2012-10-17		Marlim 284363	RC/RM	9	623135.00	6089703.00	Tributary to Reiseter Creek	9000	26.90		Open Bottom Structure	Bridge	12.30	5.00								
2012-10-17		Marlim 284356	RC/RM	9	622905.00	6090135.00	Tributary to Reiseter Creek	9000	26.00		Closed Bottom Structure	Round Culvert	0.45	13.00	No		No	No		1.00	0	0.00
2012-10-17		Marlim 284354	RC/RM	9	622420.00	6090364.00	Tributary to Reiseter Creek	9000	25.60		Closed Bottom Structure	Round Culvert	0.45	13.00	No		No	No		1.00	0	0.00
2012-10-17		Marlim 284345	RC/RM	9	622791.00	6091374.00	Tributary to Reiseter Creek	9000	22.50		Closed Bottom Structure	Round Culvert	0.60	9.50	No		No	No		1.30	0	0.00
2012-10-17		Marlim 284344	RC/RM	9	622364.00	6091520.00	Tributary to Reiseter Creek	9000	22.40		Closed Bottom Structure	Round Culvert	0.60	13.00	No		No	No		1.30	0	0.00
2012-10-17		Marlim 284341	RC/RM	9	622324.00	6091703.00	Tributary to Reiseter Creek	9000	21.90		Closed Bottom Structure	Round Culvert	1.15	13.00	No		No	No		0.60	0.3	0.10
2012-10-17		Marlim 284318	RC/RM	9	621884.00	6093000.00	Tributary to Reiseter Creek	9000	19.30		Closed Bottom Structure	Round Culvert	0.45	12.00	No		No	No		1.10	0	0.00
2012-10-17		Marlim 284317	RC/RM	9	622026.00	6093087.00	Tributary to Reiseter Creek	9000	19.10		Open Bottom Structure	Bridge	10.00	5.00								
2012-10-17		Marlim 284315	RC/RM	9	622711.00	6093645.00	Tributary to Reiseter Creek	9000	18.10		Closed Bottom Structure	Round Culvert	0.95	16.50	No		No	No		2.70	0	0.00

2012-10-17		Marlim 284313	RC/RM	9	622921.00	6093816.00	Tributary to Reiseter Creek		9000	17.90		Closed Bottom Structure	Round Culvert	0.45	13.50	No		No	No		0.85	0.05	0.00
2012-10-17		Marlim 284310	RC/RM	9	622964.00	6093895.00	Tributary to Reiseter Creek		9000	17.80		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		1.10	0.22	0.18
2012-10-17		Marlim 284307	RC/RM	9	623157.00	6093996.00	Tributary to Reiseter Creek		9000	17.40		Open Bottom Structure	Bridge	9.00	5.00								
2012-10-17		Marlim 284293	RC/RM	9	623617.00	6095043.00	Tributary to Reiseter Creek		9000	15.30		Open Bottom Structure	Bridge	12.00	5.00								
2012-10-17		Marlim 284290	RC/RM	9	623464.00	6095209.00	Tributary to Reiseter Creek		9000	15.00		Closed Bottom Structure	Round Culvert	1.00	14.00	No		No	No		0.75	0	0.00
2012-10-17		Marlim 284289	RC/RM	9	623280.00	6095202.00	Tributary to Reiseter Creek		9000	14.90		Closed Bottom Structure	Round Culvert	0.45	14.50	No		No	No		0.85	0.3	0.10
2012-10-17		Marlim 284294	RC/RM	9	622638.00	6094928.00	Tributary to Reiseter Creek		9000	14.10		Closed Bottom Structure	Round Culvert	0.45	15.00	No		No	No		1.60	0	0.00
2012-10-17		Marlim 284304	RC/RM	9	621880.00	6094233.00	Tributary to Reiseter Creek		9000	13.00		Closed Bottom Structure	Round Culvert	1.00	14.50	No		No	No		1.10	0.05	0.13
2012-10-17		Marlim 284302	RC/RM	9	620919.00	6094231.00	Tributary to Reiseter Creek		9000	12.00		Open Bottom Structure	Bridge	73.50	6.00								
2012-10-17		Marlim 284287	RC/RM	9	622263.00	6095197.00	Tributary to Reiseter Creek	9000-1		15.00		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		0.60	0	0.00
2012-10-17		Marlim 284283	RC/RM	9	621945.00	6095271.00	Tributary to Reiseter Creek	9000-1A		0.10		Closed Bottom Structure	Round Culvert	0.60	11.00	No		No	No		0.90	0	0.00
2012-10-17		Marlim 284291	RC/RM	9	621824.00	6095101.00	Tributary to Reiseter Creek	9000-1A		1.20		Closed Bottom Structure	Round Culvert	0.45	10.00	No		No	No		0.40	0.13	0.00
2012-10-17		Marlim 284282	RC/RM	9	621850.00	6095327.00	Tributary to Reiseter Creek	9000-1B		0.20		Closed Bottom Structure	Round Culvert	0.60	15.00	No		No	No		1.30	1.25	0.03
2012-10-17		2	RC/RM	9	622590.00	6094917.00	Tributary to Reiseter Creek		9000	14.05		Closed Bottom Structure	Round Culvert	1.00	14.50	No		No	No		1.40	0.33	0.10
2012-10-17		Marlim 284289	RC/RM	9	621738.00	6094657.00	Tributary to Reiseter Creek	9000-1		1.20		Closed Bottom Structure	Round Culvert	1.20	13.50	No		No	No		0.60	0.48	0.22
2012-10-18		Marlim 286628	RC/RM	9	622935.00	6074562.00				0.30		Closed Bottom Structure	Round Culvert	0.40	10.70	No		No	No		0.60	0	0.00
2012-10-18		Marlim 286628A	RC/RM	9	622946.00	6074574.00				0.30		Closed Bottom Structure	Round Culvert	0.60	18.50	No		No	No		0.20	0	0.00
2012-10-18		Marlim 286386	RC/RM	9	615179.00	6086356.00	Reiseter Creek	Telkwa High Road		13.40		Open Bottom Structure	Bridge	34.00	3.50								
2012-10-18		Marlim-27	RC/RM	9	622768.00	6096006.00	Tributary to Reiseter Creek	9000-1E		0.80		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		0.70	0.5	0.00
2012-10-18		Marlim-28	RC/RM	9	622720.00	6095784.00	Tributary to Reiseter Creek	9000-1E		1.00		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		0.40	0.2	0.00
2012-10-18		Marlim-29	RC/RM	9	622631.00	6095663.00	Tributary to Reiseter Creek	9000-1E		1.40		Closed Bottom Structure	Round Culvert	0.45	9.50	No		No	No		0.50	0.1	0.00
2012-10-18		Marlim 284309	RC/RM	9	620517.00	6093809.00	Tributary to Reiseter Creek		9000	11.20		Closed Bottom Structure	Round Culvert	0.45	9.50	No		No	No		1.00	0	0.00
2012-10-18		Marlim 286183	RC/RM	9	619733.00	6093538.00	Tributary to Reiseter Creek		9000	10.40		Closed Bottom Structure	Round Culvert	1.00	11.50	No		No	No		0.50	0.18	0.37
2012-10-18		Marlim 286218	RC/RM	9	619408.00	6092218.00	Tributary to Reiseter Creek		9000	9.80		Closed Bottom Structure	Round Culvert	0.45	11.00	No		No	No		1.00	0	0.00
2012-10-18		Marlim 286241	RC/RM	9	619497.00	6091672.00	Tributary to Reiseter Creek		9000	8.70		Closed Bottom Structure	Round Culvert	1.00	11.00	No		No	No		1.00	0.03	0.13
2012-10-18		Marlim 286249	RC/RM	9	617944.00	6090735.00	Tributary to Reiseter Creek		9000	6.50		Closed Bottom Structure	Round Culvert	0.45	11.00	No		No	No		0.70	0.09	0.09
2012-10-18		Marlim 284353	RC/RM	9	618000.00	6090230.00	Tributary to Reiseter Creek	240-1A		1.00		Closed Bottom Structure	Round Culvert	0.60	11.00	No		No	No		0.40	0.03	0.10
2012-10-18		Marlim 286252	RC/RM	9	619435.00	6090203.00	Tributary to Reiseter Creek	240-1A, 60m E of 2.5km		2.50		Other	Ford										
2012-10-18		Marlim 284355	RC/RM	9	617992.00	6090100.00	Tributary to Reiseter Creek	240-3		0.20		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		0.60	0	0.00
2012-10-18		Marlim 284359	RC/RM	9	618622.00	6089739.00	Tributary to Reiseter Creek	240-3		1.00		Closed Bottom Structure	Round Culvert	0.60	14.50	No		No	Yes	25.00	1.50	0	0.00
2012-10-18		Marlim 284358	RC/RM	9	618874.00	6089798.00	Tributary to Reiseter Creek	240-3		1.30		Closed Bottom Structure	Round Culvert	0.60	14.00	No		No	No		1.80	0	0.00
2012-10-18		Marlim 284360	RC/RM	9	620137.00	6089772.00	Tributary to Reiseter Creek	240-3		2.50		Closed Bottom Structure	Round Culvert	0.60	11.00	No		No	No		0.70	0.18	0.12
2012-10-18		Marlim 286286	RC/RM	9	618712.00	6089571.00	Tributary to Reiseter Creek	240-3, branch at 1.3km		0.30		Other	Ford										
2012-10-18		Marlim-30	RC/RM	9	599633.00	6087021.00	Tributary to Trout Creek		6000	2.00		Closed Bottom Structure	Round Culvert	0.60	20.50	No		No	No		0.40	0.08	0.04
2012-10-18		Marlim-31	RC/RM	9	598938.00	6085937.00	Tributary to Trout Creek		6000	3.10		Closed Bottom Structure	Round Culvert	0.60	13.00	No		No	No		0.40	0.1	0.10
2012-10-18		Marlim 286468	RC/RM	9	611579.00	6082487.00	Trout Creek	Private off Hwy 16		0.60		Open Bottom Structure	Bridge	9.50	5.00								
2012-10-18		Marlim-32	RC/RM	9	611312.00	6082115.00	Trout Creek	Private off Hwy 16		1.10		Open Bottom Structure	Bridge	8.00	4.00								
2012-10-18		Marlim 286467	RC/RM	9	610350.00	6082554.00	Tributary to Trout Creek	Private off Hwy 16		3.00		Open Bottom Structure	Bridge	5.50	1.40								
2012-10-18		Marlim-33	RC/RM	9	611102.00	6081953.00	Tributary to Trout Creek	Private off Hwy 16		2.30		Open Bottom Structure	Bridge	5.00	5.50								
2012-10-19		Marlim-34	RC/RM	9	615667.00	6074661.00	Tributary to Kathlyn Creek	Hwy 16 (From Smithers Border)		1.40		Closed Bottom Structure	Round Culvert	0.75	15.00	No		No	No		1.50	0.15	0.15
2012-10-21		Marlim 284271	MG	9	612406.00	6097656.00	Tibutary to Wiggs Creek	R09533 230-2C		0.60		Other	Ford										
2012-10-21		Marlim 284271A	MG	9	611929.00	6097663.00	Tibutary to Wiggs Creek	R09533 230-2C		0.10		Other	Ford										
2012-10-22		Marlim 287909B	MG	9	637761.00	6038023.00	Tributary to Dockrill Creek	Unnamed		2.90		Open Bottom Structure	Wood Box Culvert	14.50	8.50								
2012-10-22		Marlim 287909	MG	9	637676.00	6038139.00	Tributary to Dockrill Creek	Unnamed		3.00		Open Bottom Structure	Bridge	14.00	8.50								
2012-10-22		Marlim 287857A	MG	9	637184.00	6039141.00	Tributary to Dockrill Creek	Unnamed		4.30		Open Bottom Structure	Wood Box Culvert	9.50	2.80								
2012-10-22		Marlim 287825	MG	9	636798.00	6039632.00	Tributary to Dockrill Creek	Unnamed		5.10		Other	Ford										
2012-10-22		Marlim 287843	MG	9	636134.00	6039177.00	Tributary to Dockrill Creek	Unnamed		2.10		Other	Ford										
2012-10-22		Marlim 287860	MG	9	636004.00	6038929.00	Tributary to Dockrill Creek	Unnamed		2.10		Open Bottom Structure	Wood Box Culvert	7.50	2.25								
2012-10-22		Marlim 287860A	MG	9	637030.00	6038897.00	Tributary to Dockrill Creek	Unnamed		0.30		Closed Bottom Structure	Round Culvert	0.40	8.00	No		No	No		1.45	0.95	0.00
2012-10-23		Marlim 286154	MG	9	618735.00	6095748.00	Tributary to Gramophone Creek	Unnamed		0.80		Other	Ford										
2012-10-23		Marlim 286155	MG	9	618721.00	6095732.00	Tributary to Gramophone Creek	Unnamed		0.70		Other	Ford										
2012-10-23		Marlim 286207	MG	9	602444.00	6091759.00	Tributary to Schippers Creek	Unnamed		2.00		Closed Bottom Structure	Round Culvert	0.50	7.50	No		No	No		0.85	0	0.00
2012-10-23		Marlim 286563	MG	9	623560.00	6076990.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)		2.50		Open Bottom Structure	Bridge	28.50	8.55								
2012-10-23		Marlim 286528	MG	9	622537.00	6078562.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)		4.60		Closed Bottom Structure	Round Culvert	1.63	18.50	No		No	No		2.50	0.6	0.33
2012-10-23		Marlim 286527	MG	9	622460.00	6078644.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)		4.70		Closed Bottom Structure	Round Culvert	0.60	27.50	No		No	No		4.25	1.25	0.00
2012-10-23		Marlim 286502	MG	9	621246.00	6079765.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)		6.50		Closed Bottom Structure	Round Culvert	0.60	11.50	No		No	No		0.93	0.18	0.08
2012-10-24		Marlim 286508	MG	9	619733.00	6079593.00	Tributary to Driftwood Creek	Snake Road		7.00		Open Bottom Structure	Bridge	16.80	8.40								
2012-10-24		Marlim 286514	MG	9	621890.00	6079420.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)		5.90		Closed Bottom Structure	Round Culvert	0.40	8.50	Yes	0.20	No	No		1.00	0	0.00
2012-10-24		Marlim 286517	MG	9	621967.00	6079323.00	Tributary to Driftwood Creek	Telkwa High Road (from Old Babine Lake Road)		5.80		Closed Bottom Structure	Round Culvert	0.40	10.40	Yes	0.15	No	No		0.90	0	0.00
2012-10-24		Marlim 286553	MG	9	624224.00	6077419.00	Tributary to Driftwood Creek	Gilbert Road		0.60		Closed Bottom Structure	Round Culvert	0.60	10.50	No		No	No		1.25	0	0.00
2012-10-24		Marlim 286551	MG	9	624184.00	6077581.00	Tributary to Driftwood Creek	Adams Road		0.10		Closed Bottom Structure	Round Culvert	0.60	12.20	No		No	No		1.53	0.14	0.00
2012-10-24		Marlim 286540	MG	9	624132.00	6077824.00	Tributary to Driftwood Creek	Adams Road		0.40		Closed Bottom Structure	Round Culvert	0.50	10.30	No		No	No		1.55	0.23	0.00
2012-10-24		Marlim 286526	MG	9	623825.00	6078784.00	Tributary to Driftwood Creek	Adams Road		1.50		Closed Bottom Structure	Round Culvert	0.40	11.00	No		No	No		1.40	0.82	0.00
2012-10-24		Marlim 286513	MG	9	623406.00	6079516.00	Tributary to Driftwood Creek	Adams Road		2.80		Closed Bottom Structure	Oval Culvert	1.40	16.30	No		No	No		1.75	0.17	0.24
2012-11-09		Marlim 286945	RM/NJV	9	629754.00	6061125.00	McDowell Creek	Woodmere		2.90		Closed Bottom Structure	Round Culvert	1.10	15.00	No		No	No		0.40	0	0.75
2012-11-09		Marlim 286976	RM/NJV	9	630517.00	6059816.00	Tributary to Bulkley River	Hubert		0.90		Closed Bottom Structure	Round Culvert	0.5	11.00	No		No	No		0.80	0	0.00
2012-11-09		Marlim 286977	RM/NJV	9	630711.00	6059802.00	Tributary to Bulkley River	Unnamed		0.20		Closed Bottom Structure	Round Culvert	0.50	6.00	No		No	No		0.30	0.56	0.00
2012-11-09		Marlim 286943	RM/NJV	9	631335.00	6061217.00	Tributary to McDowell	Woodmere		3.90		Closed Bottom Structure	Round Culvert	0.65	14.00	No		No	No		2.40	0	0.00
2012-11-09		Marlim 286914	RM/NJV	9	633572.00	6062662.00	Tributary to Lacroix	Woodmere		5.60		Closed Bottom Structure	Round Culvert	0.60	12.00	No		No	No		0.40	0.04	0.00
2012-11-09		Marlim 286995	RM/NJV	9	633273.00	6059279.00	Tributary to Round Lake	Round lake Road		1.60		Closed Bottom Structure	Round Culvert	0.40	9.00	No		No	No		0.20	0	0.00
2012-11-10		Marlim 286941	RM/NJV	9	629963.00	6061156.00	Tributary to McDowell	Unnamed		0.80		Closed Bottom Structure	Round Culvert	0.60	4.00	No		No	No		0.20	0	0.00
2012-11-10		Marlim 286965	RM/NJV	9	628044.00	6060527.00	McDowell Creek	Highway 16				Closed Bottom Structure	Round Culvert	1.25	25.00	No		No	Yes	10.00	4.00	0.03	0.37
2012-11-10		Marlim 286967	RM/NJV	9	627643.00	6060449.00	McDowell Creek	Woodmere Nursery Road	0.40			Closed Bottom Structure	Round Culvert	1.00	11.00	No		No	No		0.75	0.47	0.54
2012-11-10		Marlim 287014	RM/NJV	9	630669.00	6058919.00	Tributary to Bulkley River	Highway 16				Closed Bottom Structure	Round Culvert	0.80	30.00	No		No	No		1.90	0.41	0.59
2012-11-10		Marlim 287088	RM/NJV	9	633419.00	6057451.00	Lacroix Creek	Highway 16				Closed Bottom Structure	Round Culvert	1.70	25.00	No		No	No		1.00	0	0.30

2012-11-11		Marlim 286772	RM/NJV	9	619889.00	6070644.00	Seymour Creek	Unnamed			Closed Bottom Structure	Round Culvert	1.20	13.00	No		No	No		1.40	0	0.00
2012-11-11		Marlim 287039	RM/NJV	9	620687.00	6058062.00	Tenas Creek	Telkwa River Road	1.20		Open Bottom Structure	Bridge	18.00	7.50								
2012-11-11		Marlim 284581	RM/NJV	9	617103.00	6057322.00	Tributary to Bulkley River	Telkwa River Road	3.10		Open Bottom Structure	Bridge	9.00	4.00								

		Stream Information						Scoring Data								Recommendations		
Inlet Drop? Yes / No	Culvert Slope (%)	Downstream Channel Width (meters)	Stream Slope	Beaver Activity? Yes / No	Fish Observed? Yes / No	Valley Fill	Habitat Value	Stream Width Ratio	Culvert Length Score	Embed Score	Outlet Drop Score	Culvert Slope Score	Stream Width Ratio Score	Final Score	Barrier Result	Crossing Fix	Recommended Diameter or Span (meters)	Assessment Comment
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Road deactivated, culvert removed - no action required
No	6.50	1.20	5	No	No	Deep Fill	Low	2.00	0	10	10	10	6	36	Barrier	Removal		Channel primarily filled with moss, poor fish habitat present
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Culvert removed from crossing, but left in channel upstream of crossing
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	2.10	2.20	2	No	No	Deep Fill	Low	4.40	0	5	0	5	6	16	Potential	Additional Substrate Material		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Streambed Simulation	0.7	Road deactivated, culvert removed - no action required
No	3.00	1.30	18	No	No	Deep Fill	Low	1.44	3	10	10	10	6	39	Barrier	Open Bottom Structure	1.5	Tree fallen in front of inlet - needs to be removed
No	1.70	1.40	8	No	No	Deep Fill	Low	2.33	0	10	0	5	6	21	Barrier	Removal		Remove culvert and deactivate road
Yes	3.90	2.60	2	No	No	Deep Fill	Low	2.89	3	10	10	10	6	39	Barrier	Removal		Remove culvert and deactivate road
No	4.00	2.20	2	No	No	Deep Fill	Low	2.75	3	10	10	10	6	39	Barrier	Streambed Simulation	2.20	Replace with larger, embedded culvert, or an OBS
No	1.00	1.90	3	No	No	Deep Fill	Medium	3.17	0	10	10	5	6	31	Barrier	Removal		No fish habitat present, but culvert is rusted out and needs to be replaced
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	4.00	1.70	11	No	No	Deep Fill	Medium	2.83	0	10	5	10	6	31	Barrier	Removal		Remove culverts and deactivate road (2 stacked culverts at crossing)
				No	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	0.00	1.20	6.5	No	No	Deep Fill	Medium	4.00	0	10	5	0	6	21	Barrier	Open Bottom Structure	1.20	Culvert is completely flattened, no passage possible
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	8.20	0.60	5.5	No	No	Deep Fill	Low	1.20	0	10	0	10	3	23	Barrier	Streambed Simulation	0.60	No fish habitat present, no action required
Yes	12.00	0.54	3	No	No	Deep Fill	Low	1.20	0	10	0	10	3	23	Barrier	Streambed Simulation	0.50	No fish habitat present, no action required
No	9.00	1.30	3	No	Yes	Deep Fill	Medium	2.17	0	10	0	10	6	26	Barrier	Streambed Simulation	1.30	required.
No	4.80	1.30	3	No	No	Deep Fill	Medium	1.37	6	10	10	10	6	42	Barrier	Open Bottom Structure	1.30	Good habitat upstream of culvert
No	5.00	2.40	8	No	No	Deep Fill	Medium	2.67	6	10	10	10	6	42	Barrier	Open Bottom Structure	2.40	Moderate habitat present
No	4.60	1.20	1.5	No	No	Deep Fill	Low	2.00	6	10	0	10	6	32	Barrier	Additional Substrate Material		No fish habitat present, no action required
No	1.00	0.60	2	No	No	Deep Fill	Low	1.20	0	10	0	5	3	18	Potential	Additional Substrate Material		Very low habitat value, no action required
Yes	1.80	2.45	3	No	Yes	Deep Fill	Medium	2.04	0	10	10	5	6	31	Barrier	Streambed Simulation	2.50	If culvert is proven a barrier, replace with larger, embedded culvert
No	2.30	3.10	3	No	No	Deep Fill	High	1.94	0	10	10	5	6	31	Barrier	Open Bottom Structure	3.10	If culvert is proven a barrier, replace with OBS
No	7.50	2.50	3.4	No	No	Deep Fill	Low	6.25	0	10	0	10	6	26	Barrier	Streambed Simulation	2.50	Channel very undefined, no fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, water currently flows over top of rarely used access road
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, no action required
No	2.50	0.80	5	No	No	Deep Fill	Low	1.60	0	10	0	5	6	21	Barrier	Removal		No fish habitat present, culvert is squashed on upstream end and may need to be replaced
No	1.50	6.40	3.5	No	Yes	Deep Fill	High	2.00	0	10	0	5	6	21	Barrier	Open Bottom Structure	6.40	Fish observed both upstream and downstream of culvert. If proven to be a barrier, replace with OBS
				No	No			0.00	0	0	0	0	0	0	Unkown	Open Bottom Structure	4.00	Passable, no action required
Yes	0.50	0.90	5	No	No	Deep Fill	Low	1.80	0	10	0	0	6	16	Potential	Backwater		No fish habitat present, no action required
No	2.00	1.10	4	No	No	Deep Fill	Low	1.83	0	10	0	5	6	21	Barrier	Removal		No fish habitat present, culvert inlet is above the level of the ground, and should be replaced
No	9.80	0.60	13	No	No	Deep Fill	Low	1.20	0	10	0	10	3	23	Barrier	Removal		No fish habitat present, culvert is starting to rust out and may need to be replaced
No	7.20	0.90	7	No	No	Deep Fill	Low	1.38	3	10	0	10	6	29	Barrier	Streambed Simulation	0.90	No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	2.00	3.25	2.5	No	No	Deep Fill	Medium	5.00	0	10	10	5	6	31	Barrier	Open Bottom Structure	3.25	Landowner is currently replacing the crossing with a larger culvert.
No	4.30	1.50	2.5	No	Yes	Deep Fill	Medium	1.58	6	10	10	10	6	42	Barrier	Open Bottom Structure	1.50	Fish observed downstream, good habitat present upstream.
No	1.50	1.50	2	No	No	Deep Fill	Medium	2.00	0	10	0	5	6	21	Barrier	Streambed Simulation	1.50	Replace with larger, embedded culvert if proven a barrier to fish
No	6.50	0.00	4	No	No	Deep Fill	Low	0.00	0	10	0	10	0	20	Barrier	Removal		No visible channel upstream or downstream, culvert is rusting out and may need to be replaced
No	4.50	1.40	9	No	No	Deep Fill	Low	1.56	0	10	0	10	6	26	Barrier	Streambed Simulation	1.40	No visible channel upstream or downstream of culvert, no action required
No	3.80	1.00	2.5	No	No	Deep Fill	Low	1.67	3	10	0	10	6	29	Barrier	Streambed Simulation	1.00	No fish habitat present, no action required
No	4.50	0.90	5.5	No	No	Deep Fill	Low	1.50	0	10	0	10	6	26	Barrier	Streambed Simulation	0.90	No fish habitat present, no action required
No	2.00	0.65	11.5	No	No	Deep Fill	Low	1.08	0	10	0	5	3	18	Potential	Backwater		No fish habitat present, no action required
No	1.50	0.80	5	No	No	Deep Fill	Low	0.89	3	10	0	5	0	18	Potential	Backwater		No fish habitat present, no action required
No	1.50	1.30	4	No	No	Deep Fill	Low	2.60	0	10	0	5	6	21	Barrier	Backwater		No fish habitat present, no action required
No	4.00	0.80	3.5	No	No	Deep Fill	Low	1.33	0	10	5	10	6	31	Barrier	Streambed Simulation	0.80	No fish habitat present, no action required
No	1.50	2.10	2.5	Yes	No	Deep Fill	Low	35.00	3	10	5	5	6	29	Barrier	Removal		Manmade pond with abundant beaver activity upstream, no fish access from downstream, no action required
				No	No			0.00	3	0	0	0	0	3	Passable			Passable, no action required
No	10.00	1.60	3	No	No	Deep Fill	Low	2.13	0	10	10	10	6	36	Barrier	Streambed Simulation	1.60	No fish habitat present, no action required
No	5.50	0.80	51	No	No	Deep Fill	Low	1.00	0	10	0	10	3	23	Barrier	Removal		No fish habitat present, but culvert is rusted out and needs to be replaced
				No	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	6.00	1.20	2.5	No	No	Deep Fill	Low	2.00	3	10	0	10	6	29	Barrier	Streambed Simulation	1.20	No fish habitat present, no action required
No	0.50	1.20	3.5	No	No	Deep Fill	Low	3.43	0	10	0	0	6	16	Potential	Streambed Simulation	1.20	No fish habitat present, no action required
Yes	2.00	0.80	23	No	No	Deep Fill	Low	1.00	0	10	10	5	3	28	Barrier	Streambed Simulation	0.80	No fish habitat present, no action required
No	1.50	0.60	13.5	No	No	Deep Fill	Low	1.28	0	10	5	5	3	23	Barrier	Backwater		No fish habitat present, no action required
				No	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	13.70	0.35	2	No	No	Deep Fill	Medium	1.00	0	10	0	10	3	23	Barrier	Open Bottom Structure	6.00	Pond both upstream and downstream of culvert. If proven a barrier to fish, replace with OBS
No	4.50	0.00	10	No	No	Deep Fill	Low	0.00	3	10	0	10	0	23	Barrier	Removal		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	7.00	0.80	3	No	No	Deep Fill	Low	0.89	3	10	0	10	0	23	Barrier	Streambed Simulation	0.80	No fish habitat present, no action required
No	2.50	1.40	2	No	No	Shallow Fill	Low	0.78	3	10	5	5	0	23	Barrier	Streambed Simulation	1.40	No fish access, ~20m falls immediately downstream of culverts, no action required
No	2.50	1.58	2.5	No	No	Deep Fill	Medium	3.16	0	10	5	5	6	26	Barrier	Streambed Simulation	1.60	Upstream of falls, no fish access possible, no action required
No	6.50	1.60	2.5	No	No	Deep Fill	Medium	2.29	0	10	5	10	6	31	Barrier	Streambed Simulation	1.60	Upstream of falls, no fish access possible, no action required

No	4.00	1.30	5	No	No	Deep Fill	Low	1.44	0	10	0	10	6	26	Barrier	Removal		No fish access to site, no action required
No	2.50	1.10	2	No	No	Deep Fill	Low	1.83	0	10	0	5	6	21	Barrier	Streambed Simulation	1.10	No fish habitat present, no action required
No	3.00	1.40	10	No	No	Deep Fill	Low	2.33	0	10	0	10	6	26	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	3.50	2.90	14.5	No	No	Deep Fill	Low	4.83	0	10	10	10	6	36	Barrier	Removal		No fish access to site, no action required
No	0.50	1.10	35	No	No	Deep Fill	Low	1.83	0	10	10	0	6	26	Barrier	Removal		No fish access to site, no action required
No	7.00	1.30	2	No	No	Deep Fill	Medium	1.08	0	5	0	10	3	18	Potential	Open Bottom Structure	1.30	If culvert is a barrier to fish, replace with OBS
No	3.00	4.20	4.5	No	No	Deep Fill	High	3.23	3	10	5	10	6	34	Barrier	Open Bottom Structure	4.20	If culvert is proven to be a barrier, replace with OBS. Cvulert U-shaped in middle, and inlet is very steeply sloped
No	7.00	3.00	5	No	No	Deep Fill	High	3.16	0	10	0	10	6	26	Barrier	Open Bottom Structure	3.00	Old bridge has collapsed, and new culvert is not in channel. Remove debris and replace with new OBS
No	0.25	4.10	4	No	No	Deep Fill	High	2.16	3	10	10	0	6	29	Barrier	Open Bottom Structure	4.10	Currently 2 stacked culverts, bottom one is blocked.
No	2.70	3.60	3.6	No	No	Deep Fill	High	2.48	0	5	0	5	6	16	Potential	Open Bottom Structure	3.60	If culvert is proven a barrier, replace with OBS
No	1.00	1.20	2	No	No	Deep Fill	Medium	2.00	0	10	0	5	6	21	Barrier	Additional Substrate Material		No fish habitat present, no action required
No	2.00	0.70	2	No	No	Deep Fill	Medium	1.40	0	10	0	5	6	21	Barrier	Streambed Simulation	0.70	If culvert is proven a barrier, replace with larger, embedded culvert
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
Yes	8.00	1.80	3	No	No	Deep Fill	High	2.25	3	10	5	10	6	34	Barrier	Streambed Simulation	1.80	If culvert is proven a barrier, replace with larger, embedded culvert
No	2.00	2.10	2.5	No	No	Deep Fill	Medium	2.63	3	0	0	5	6	14	Passable			Culvert is too deeply embedded, there is no possible access. If fish present, replace with 2.1m OBS
No	3.00	0.80	20	No	No	Deep Fill	Low	1.33	0	10	10	10	6	36	Barrier	Streambed Simulation	0.80	No fish habitat present, no action required
No	7.00	1.40	8	No	No	Deep Fill	Medium	2.33	0	10	0	10	6	26	Barrier	Streambed Simulation	1.40	If culvert is proven a barrier, replace with larger, embedded culvert
No	8.50	1.10	0.5	No	No	Deep Fill	Medium	1.83	3	10	10	10	6	39	Barrier	Streambed Simulation	1.10	If culvert is proven a barrier, replace with larger, embedded culvert
No	0.50	0.80	12	No	No	Deep Fill	Low	1.33	0	10	0	0	6	16	Potential	Removal		No fish habitat present, no action required
No	9.00	0.90	38	No	No	Deep Fill	Low	2.00	0	10	10	10	6	36	Barrier	Removal		Channel too steep for fish access, no action required
No	5.00	0.60	40	No	No	Deep Fill	Low	1.00	0	10	10	10	3	33	Barrier	Removal		Channel too steep for fish access, no action required
No	1.50	3.20	6	No	No	Deep Fill	Low	1.73	3	10	10	5	6	34	Barrier	Open Bottom Structure	3.20	If culvert is a barrier to fish, replace with OBS
No	4.50	0.70	17	No	No	Deep Fill	Low	1.17	0	10	10	10	3	33	Barrier	Streambed Simulation	0.70	Very low habitat value, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove debris from old bridge
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove debris
No	1.00	1.60	6.5	No	No	Deep Fill	High	2.00	3	10	5	5	6	29	Barrier	Removal		Remove debris
No	8.00	0.50	8.5	No	No	Deep Fill	Low	0.83	0	10	10	10	0	30	Barrier	Backwater		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove debris from old bridge
No	2.50	0.30	0.5	No	Yes	Deep Fill	Low	0.25	0	5	0	5	0	10	Passable			Extensive beaver activity in upstream pond
Yes	0.10	0.50	1	No	No	Deep Fill	Low	0.83	3	10	0	0	0	13	Passable			No fish habitat present, no action required
No	4.00	0.50	1	No	No	Deep Fill	Low	1.00	0	10	0	10	3	23	Barrier	Removal		No fish habitat present, no action required
No	2.00	0.10	5	No	No	Deep Fill	Low	0.20	0	10	0	5	0	15	Potential	Removal		No fish habitat present, no action required
Yes	1.00	0.60	8.5	No	No	Deep Fill	Low	1.20	0	10	0	5	3	18	Potential	Removal		No fish habitat present, inlet has large blockage that should be removed for drainage purposes
Yes	5.00	0.60	21	No	No	Deep Fill	Low	1.33	0	10	10	10	6	36	Barrier	Streambed Simulation	0.60	Channel is very steep, if culvert is a barrier to fish, replace with larger, embedded culvert
No	0.70	0.80	9	No	No	Deep Fill	Low	1.60	0	10	0	0	6	16	Potential	Removal		No fish habitat present, no action required
No	1.00	1.30	7	No	No	Deep Fill	Low	2.60	0	5	0	5	6	16	Potential	Removal		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				Yes	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required, lots of beaver dams in channel
No	6.00	0.90	2	No	No	Deep Fill	Low	1.50	3	10	10	10	6	39	Barrier	Streambed Simulation	0.90	No fish habitat present, no action required
No	2.60	1.10	4	No	No	Deep Fill	Low	1.38	3	10	0	5	6	24	Barrier	Streambed Simulation	1.10	No fish habitat present, no action required
No	6.50	0.80	3.5	No	No	Deep Fill	Low	1.78	0	10	10	10	6	36	Barrier	Streambed Simulation	0.80	If culvert is proven a barrier, replace with larger, embedded culvert
No	11.00	1.20	7	No	No	Deep Fill	Low	2.00	0	10	10	10	6	36	Barrier	Open Bottom Structure	1.20	flows
No	5.00	5.40	2	No	No	Deep Fill	Low	3.27	0	10	10	10	6	36	Barrier	Open Bottom Structure	5.40	If fish present, replace with OBS
No	7.50	1.40	7	No	No	Deep Fill	Medium	1.75	0	10	0	10	6	26	Barrier	Streambed Simulation	1.40	If culvert is proven a barrier, replace with larger, embedded culvert
No	1.00	0.80	2	No	No	Deep Fill	Low	1.78	0	10	5	5	6	26	Barrier	Removal		No fish habitat present, no action required
No	3.00	1.50	4	No	No	Deep Fill	Low	1.67	0	10	0	10	6	26	Barrier	Removal		No fish habitat present, but arod edges are slumping, should be fixed for drainage purposes
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	1.00	4.40	9	No	No	Deep Fill	High	1.83	3	10	0	5	6	24	Barrier	Open Bottom Structure	4.40	Currently 2 culverts next to each other, but water only flowing though 1
No	8.00	1.00	3	No	No	Deep Fill	Low	2.00	0	10	0	10	6	26	Barrier	Removal		Very low habitat value
No	3.00	0.65	4	No	No	Deep Fill	Low	1.44	0	10	0	10	6	26	Barrier	Removal		Remove culvert and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	6.00	0.60	6	No	No	Deep Fill	Low	1.33	0	10	0	10	6	26	Barrier	Removal		No fish habitat present, no action required
Yes	7.00	1.80	8.5	No	No	Deep Fill	High	2.00	6	10	5	10	6	37	Barrier	Streambed Simulation	1.60	Culvert approximately 50m downstream of upstream channel, water flows through ditch to culvert
No	5.00	1.10	7.5	No	No	Deep Fill	Medium	0.67	3	10	10	10	0	33	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	7.00	0.70	8	No	No	Deep Fill	Low	1.17	0	10	5	10	3	28	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	0.00	1.50	3.5	No	No	Deep Fill	Low	4.29	0	10	0	0	6	16	Potential	Backwater		No fish habitat present, no action required
No	2.00	0.90	9	No	No	Deep Fill	Low	0.90	0	10	0	5	0	15	Potential	Backwater		Backwater if fish present and culvert is proven a barrier
No	2.00	0.50	8.5	No	No	Deep Fill	Low	0.83	0	10	0	5	0	15	Potential	Backwater		Backwater if fish present and culvert is proven a barrier
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Streambed Simulation	0.90	Install culvert, defined channel upstream, but no crossing. Water just flows down ditch.
No	1.50	1.10	0.5	No	No	Deep Fill	Low	1.10	0	10	0	5	3	18	Potential	Backwater		If culvert is a barrier to fish, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove debris
No	2.00	2.10	0.5	No	No	Deep Fill	Low	4.67	0	10	0	5	6	21	Barrier	Removal		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Culvert has been removed, no habitat, no actino required
No	0.50	0.60	2	No	No	Deep Fill	Low	1.50	0	10	0	0	6	16	Potential	Backwater		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Streambed Simulation	0.70	Currently no culvert in place. A properly embedded should be installed if road is being used
No	3.00	0.90	3	No	No	Deep Fill	Medium	1.50	3	10	5	10	6	34	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	2.00	1.60	2	No	No	Deep Fill	Low	4.00	0	10	0	5	6	21	Barrier	Streambed Simulation	1.60	Culvert is in very poor condition and should be replaced
No	0.00	0.80	3.5	No	No	Deep Fill	Low	1.78	0	10	0	0	6	16	Potential	Backwater		If culvert is a barrier to fish, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Open Bottom Structure	1.50	Remove debris from channel, and install OBS if raod is still in use

				No	No			0.00	0	0	0	0	0	0	Unkown	Open Bottom Structure	12.00	Install open bottom structure if road is still in use
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Too steep for fish access, no action required
No	6.40	1.30	8	No	No	Deep Fill	High	0.81	3	0	0	10	0	13	Passable			Passable, no action required
No	1.00	0.90	1	No	No	Deep Fill	Low	1.00	0	10	0	5	3	18	Potential	Backwater		If culvert is a barrier to fish, use weirs to backwater
Yes	1.00	1.30	5	No	No	Deep Fill	Low	1.63	3	10	5	5	6	29	Barrier	Backwater		No fish habitat present, no action required
No	2.50	0.81	5	No	No	Deep Fill	Low	0.81	3	10	0	5	0	18	Potential	Backwater		No fish habitat present, no action required
No	1.00	0.00	1.5	No	No	Deep Fill	Low	0.00	3	10	0	5	0	18	Potential	Streambed Simulation	0.60	No fish habitat present, culvert inlet is above the level of the ground, and should be replaced
No	1.00	0.90	3	No	No	Deep Fill	Medium	1.13	3	10	0	5	3	21	Barrier	Streambed Simulation	0.90	ESC measures were in place at outlet
No	2.00	1.20	5	No	No	Deep Fill	Low	2.00	6	10	0	5	6	27	Barrier	Streambed Simulation	1.20	No fish habitat present, culvert very damaged at inlet and should be replaced for drainage purposes
				No	No			0.00	3	0	0	0	0	3	Passable			passable, no action required
No	3.50	1.10	4	No	No	Deep Fill	Low	1.38	0	10	0	10	6	26	Barrier	Streambed Simulation	1.10	No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
Yes	6.00	0.70	4.5	No	Yes	Deep Fill	High	0.70	0	10	0	10	0	20	Barrier	Streambed Simulation	0.70	Observed fish swimming through culvert, no action required
Yes	4.00	1.00	4.5	No	Yes	Deep Fill	High	1.00	0	10	0	10	3	23	Barrier	Streambed Simulation	1.00	Observed fish swimming through culvert, no action required
No	1.40	1.60	4	No	Yes	Deep Fill	High	2.13	0	0	0	5	6	11	Passable			Passable, no action required
No	1.00	0.90	1	No	No	Deep Fill	High	1.50	0	10	0	5	6	21	Barrier	Additional Substrate Material		Fish observed upstream of the culvert
No	4.00	1.60	4	No	Yes	Deep Fill	High	1.00	0	10	0	10	3	23	Barrier	Additional Substrate Material		Fish observed upstream of the culvert
No	4.00	1.30	4	No	No	Deep Fill	Low	2.17	0	10	0	10	6	26	Barrier	Streambed Simulation	1.30	No fish habitat present, but culvert is very damaged and needs to be replaced
No	4.00	1.50	4	No	No	Deep Fill	Low	1.88	3	10	0	10	6	29	Barrier	Streambed Simulation	1.50	No fish habitat present, no action required
				No	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	3.50	0.80	2.5	No	No	Deep Fill	High	0.89	0	0	0	10	0	10	Passable			Passable, no action required
No	0.50	0.70	2	No	No	Deep Fill	High	0.70	0	10	0	0	0	10	Passable			Passable, no action required
No	2.50	0.90	1	No	No	Deep Fill	Low	1.50	3	10	0	5	6	24	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	0.60	3	No	No	Deep Fill	Low	0.67	3	10	0	5	0	18	Potential	Streambed Simulation	0.60	Culvert is very damaged and should be replaced
No	2.50	1.30	4	No	No	Deep Fill	Low	4.33	0	10	10	5	6	31	Barrier	Streambed Simulation	1.30	No fish habitat present, no action required
No	4.00	1.30	4	No	No	Deep Fill	Low	4.33	0	10	0	10	6	26	Barrier	Removal		No fish habitat present, no action required
No	2.50	0.90	24	No	No	Deep Fill	Low	1.50	3	10	10	5	6	34	Barrier	Streambed Simulation	0.90	No fish habitat present, no action required
No	7.00	0.70	7	No	No	Deep Fill	Low	1.17	0	10	0	10	3	23	Barrier	Streambed Simulation	0.70	No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	4.00	1.40	5	No	No	Deep Fill	Medium	1.56	3	10	5	10	6	34	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	1.00	1.60	7	No	No	Deep Fill	Medium	1.78	6	10	5	5	6	32	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	4.00	1.40	7	No	No	Deep Fill	Medium	1.75	6	10	0	10	6	32	Barrier	Streambed Simulation	1.40	If culvert is proven to be a barrier to fish, replace with a larger, embeded culvert
No	1.50	0.80	3	No	No	Deep Fill	Low	1.33	0	10	0	5	6	21	Barrier	Backwater		No fish habitat present, no action required
No	2.00	15.00	3	No	No	Deep Fill	High	3.75	3	10	10	5	6	34	Barrier	Open Bottom Structure	15.00	Very good habitat, should have a bridge in place
No	6.00	1.70	3.5	No	Yes	Deep Fill	High	1.13	6	10	10	10	3	39	Barrier	Streambed Simulation	1.70	Falls just upstream of the culvert are a barrier to further access, no action required.
No	1.50	0.00	80	No	No	Deep Fill	Medium	0.00	3	10	10	5	0	28	Barrier	Backwater		Falls immediately downstream of crossing prevent fish access, no action required
No	2.70	1.30	7	No	No	Deep Fill	Medium	1.63	3	10	5	5	6	29	Barrier	Removal		Debris in culvert from sinkhole just below road. Needs to be replaced
No	6.00	2.20	6	No	No	Deep Fill	Medium	2.44	3	10	10	10	6	39	Barrier	Backwater		If culvert is a barrier to fish, use weirs to backwater
No	9.00	2.10	6	No	No	Deep Fill	Medium	3.50	0	10	5	10	6	31	Barrier	Streambed Simulation	2.10	If culvert is proven to be a barrier to fish, replace with a larger, embeded culvert
No	4.00	3.00	4.5	No	No	Deep Fill	Low	5.00	0	10	5	10	6	31	Barrier	Streambed Simulation	3.00	No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish habitat present, no action required
No	0.50	1.50	3	No	No	Deep Fill	Low	2.50	0	10	5	0	6	21	Barrier	Backwater		No fish habitat present, no action required
Yes	2.00	2.20	6	No	No	Deep Fill	Medium	3.67	0	10	10	5	6	31	Barrier	Streambed Simulation	2.20	If culvert is proven to be a barrier to fish, replace with a larger, embeded culvert
No	3.50	1.30	19	No	No	Deep Fill	Medium	1.44	0	10	0	10	6	26	Barrier	Streambed Simulation	1.30	If culvert is proven to be a barrier to fish, replace with a larger, embeded culvert
No	0.00	1.10	8.5	No	No	Deep Fill	Low	1.83	0	10	0	0	6	16	Potential	Additional Substrate Material		No habitat present, no action required
No	1.40	3.20	5	No	No	Deep Fill	Medium	5.33	0	10	0	5	6	21	Barrier	Removal		Replace if habitat upstream - dry at assessment
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove debris from old structure
No	3.50	4.70	6	No	No	Deep Fill	High	2.14	3	10	10	10	6	39	Barrier	Streambed Simulation	4.70	If culvert is proven a barrier, replace with a larger, embedded culvert
No	3.00	1.30	8	No	No	Deep Fill	Medium	1.08	0	0	0	10	3	13	Passable			Passable, no action required
No	3.00	0.70	4	No	No	Deep Fill	Low	1.17	0	5	0	10	3	18	Potential	Backwater		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
No	2.50	0.90	2	No	No	Deep Fill	Low	2.00	0	10	0	5	6	21	Barrier	Streambed Simulation	0.9	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	5.00	0.60	13	No	No	Deep Fill	Low	1.33	0	10	0	10	6	26	Barrier	Streambed Simulation	0.6	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	0.60	13	No	No	Deep Fill	Low	1.00	0	10	0	5	3	18	Potential	Additional Substrate Material		No habitat present, no action required
No	14.00	0.50	18	No	No	Deep Fill	Low	1.11	0	10	0	10	3	23	Barrier	Streambed Simulation	0.50	No fish access possible, no action required
Yes	19.00	0.60	25	No	No	Deep Fill	Low	1.00	0	10	10	10	3	33	Barrier	Streambed Simulation	0.60	No fish access possible, no action required
No	4.00	1.50	17	No	No	Deep Fill	Low	1.50	0	10	0	10	6	26	Barrier	Streambed Simulation	1.50	No habitat present, no action required
No	7.00	1.20	7	No	No	Deep Fill	Medium	0.65	3	10	5	10	0	28	Barrier	Streambed Simulation	1.20	If culvert is proven a barrier, replace with a larger, embedded culvert
No	2.50	0.70	4	No	No	Deep Fill	Low	1.17	3	10	0	5	3	21	Barrier	Removal		No habitat present, no action required
No	6.00	0.43	8.5	No	No	Deep Fill	Low	0.72	0	10	5	10	0	25	Barrier	Removal		No habitat present, no action required
No	0.50	0.40	1	No	No	Deep Fill	Low	0.67	0	10	0	0	0	10	Passable			Passable, no action required
No	1.00	0.90	2.5	No	No	Deep Fill	Medium	1.50	0	10	5	5	6	26	Barrier	Backwater		If culvert is proven a barrier, use weirs to backwater
No	2.50	0.70	7	No	No	Deep Fill	Medium	1.17	0	10	0	5	3	18	Potential	Backwater		If culvert is proven a barrier, use weirs to backwater
No	8.00	1.20	3	No	No	Deep Fill	Medium	2.67	0	10	0	10	6	26	Barrier	Backwater		If culvert is proven a barrier, use weirs to backwater
No	3.00	1.00	2	No	No	Deep Fill	Low	1.67	0	10	0	10	6	26	Barrier	Streambed Simulation	1.00	No habitat present, no action required

No	1.00	3.50	0.5	No	Yes	Deep Fill	Medium	3.89	0	10	0	5	6	21	Barrier	Additional Substrate Material		Observed fish swimming through culvert, no action required
Yes	3.00	0.80	3	No	No	Deep Fill	Medium	1.33	0	10	10	10	6	36	Barrier	Backwater		backwater
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	0.50	0.90	6	No	No	Deep Fill	Low	1.50	0	10	10	0	6	26	Barrier	Backwater		No habitat present, no action required
No	7.00	0.80	3.5	No	No	Deep Fill	Low	1.78	0	10	5	10	6	31	Barrier	Streambed Simulation	0.80	No habitat present, no action required
No	3.00	0.80	9	No	No	Deep Fill	Low	0.80	0	5	0	10	0	15	Potential	Backwater		Potential, backwater if proven a barrier
No	6.50	0.70	5	No	No	Deep Fill	Medium	0.70	0	5	0	10	0	15	Potential	Backwater		Potential, backwater if proven a barrier
No	8.00	0.50	5	No	No	Deep Fill	Low	0.83	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	No habitat present, no action required
No	1.00	0.70	2	No	No	Deep Fill	Medium	0.58	0	0	0	5	0	5	Passable			Passable, no action required
No	8.00	0.60	9	No	No	Deep Fill	Medium	0.60	3	10	0	10	0	23	Barrier	Streambed Simulation	0.60	If culvert is proven a barrier, replace with a larger, embedded culvert
No	1.00	0.60	11	No	No	Deep Fill	Low	1.00	0	10	0	5	3	18	Potential	Removal		No habitat present, no action required
No	2.50	0.60	11	No	No	Deep Fill	Medium	0.60	0	10	5	5	0	20	Barrier	Backwater		Backwater if upstream habitat is present
No	5.00	0.50	21	No	No	Deep Fill	Low	0.50	0	10	0	10	0	20	Barrier	Removal		No fish access possible, no action required
No	4.00	0.70	11	No	No	Deep Fill	Medium	0.70	0	10	10	10	0	30	Barrier	Streambed Simulation	0.70	If culvert is proven a barrier, replace with a larger, embedded culvert
No	0.00	0.40	17	No	No	Deep Fill	Medium	0.40	0	5	0	0	0	5	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish access possible, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish access possible, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	3.00	0.80	1	No	No	Deep Fill	Low	1.33	0	10	0	10	6	26	Barrier	Streambed Simulation	0.80	No habitat present, no action required
				Yes	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	Yes			0.00	0	0	0	0	0	0	Unkown	Open Bottom Structure	5.10	Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	5.00	0.70	12	No	No	Deep Fill	Low	0.42	3	5	0	10	0	18	Potential	Streambed Simulation	0.70	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
No	1.00	1.70	9	No	No	Deep Fill	Medium	1.42	0	10	0	5	6	21	Barrier	Streambed Simulation	1.70	If culvert is proven a barrier, replace with a larger, embedded culvert
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	1.50	0.45	4	No	No	Deep Fill	Low	0.90	0	10	0	5	0	15	Potential	Backwater		Potential, backwater if proven a barrier
No	3.00	3.00	1	No	No	Deep Fill	Low	6.67	0	10	0	10	6	26	Barrier	Removal		Remove culvert, and deactivate road
No	7.00	0.97	3	No	No	Deep Fill	Low	0.69	0	10	0	10	0	20	Barrier	Streambed Simulation	1.00	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	1.00	0.60	4	No	No	Deep Fill	Low	1.33	0	10	0	5	6	21	Barrier	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	12.00	0.87	8	No	No	Deep Fill	Low	1.45	0	10	0	10	6	26	Barrier	Streambed Simulation	0.90	No habitat present, no action required
No	12.00	2.10	10	No	No	Deep Fill	Medium	4.20	0	10	5	10	6	31	Barrier	Removal	2.00	If culvert is proven a barrier, replace with a larger, embedded culvert
Yes	9.00	0.60	12	No	No	Deep Fill	Medium	1.33	0	10	0	10	6	26	Barrier	Removal	0.60	If culvert is proven a barrier, replace with a larger, embedded culvert
Yes	3.00	0.86	8	No	No	Deep Fill	Low	1.91	0	10	0	10	6	26	Barrier	Removal		No habitat present, no action required
No	9.00	1.40	10	No	No	Deep Fill	Medium	1.00	3	10	10	10	3	36	Barrier	Open Bottom Structure	1.40	Install OBS if road remaining active
No	6.00	1.03	10	No	No	Deep Fill	High	0.74	0	10	5	10	0	25	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish access possible, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish access possible, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
Yes	7.00	2.63	7	No	No	Deep Fill	High	1.88	0	10	0	10	6	26	Barrier	Removal		Remove culvert, and deactivate road
No	14.00	0.70	12	No	No	Deep Fill	High	0.58	0	10	0	10	0	20	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	3.00	1.40	2	No	No	Deep Fill	Low	0.82	0	5	0	10	0	15	Potential	Backwater		Potential, backwater if proven a barrier
No	3.00	1.77	4	No	No	Deep Fill	Low	0.98	0	0	0	10	0	10	Passable			Passable, no action required
No	3.00	1.47	5	No	No	Deep Fill	Medium	0.82	0	5	0	10	0	15	Potential	Backwater		Potential, backwater if proven a barrier
No	2.00	0.57	4	No	No	Deep Fill	Low	1.27	0	10	0	5	3	18	Potential	Streambed Simulation	1.40	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Backwater		Passable, no action required
Yes	2.00	0.67	3	No	No	Deep Fill	Low	1.49	0	10	0	5	6	21	Barrier	Removal		Remove culvert, and deactivate road
No	3.50	0.57	3.5	No	No	Deep Fill	Low	1.14	0	10	5	10	3	28	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
No	4.00	0.60	3	No	No	Deep Fill	Low	1.33	0	10	0	10	6	26	Barrier	Streambed Simulation	0.60	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
Yes	2.00	1.10	4	No	No	Deep Fill	Medium	1.83	0	10	0	5	6	21	Barrier	Removal		Remove culvert, and deactivate road
No	4.00	1.50	4	No	No	Deep Fill	Medium	1.67	0	10	5	10	6	31	Barrier	Streambed Simulation	1.50	If culvert is proven a barrier, replace with a larger, embedded culvert
				No	No			0.00	0	0	0	0	0	0	Unkown	Streambed Simulation		Passable, no action required
No	3.00	1.73	4	No	No	Deep Fill	High	1.44	0	10	10	10	6	36	Barrier	Open Bottom Structure	1.80	Replace with OBS if road staying active
No	1.00	0.93	8	No	No	Deep Fill	Low	2.07	0	10	5	5	6	26	Barrier	Removal		No habitat present, no action required
No	3.50	0.80	4	No	No	Deep Fill	Medium	0.80	0	5	0	10	0	15	Potential	Backwater		If culvert is proven a barrier, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	3.00	0.97	2	No	No	Deep Fill	Low	2.43	0	10	0	10	6	26	Barrier	Backwater		No habitat present, no action required
No	9.00	1.40	1	No	No	Deep Fill	Low	3.11	0	10	0	10	6	26	Barrier	Streambed Simulation	1.40	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required

				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
Yes	3.00	1.23	4	No	No	Deep Fill	High	1.03	0	10	5	10	3	28	Barrier	Backwater		If culvert is proven a barrier, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Unkown	Backwater		No habitat present, no action required
Yes	1.00	0.83	4	No	No	Deep Fill	Low	1.66	0	10	0	5	6	21	Barrier	Backwater		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	4.00	1.57	4	No	No	Deep Fill	Medium	2.62	0	10	5	10	6	31	Barrier	Streambed Simulation	1.60	If culvert is proven a barrier, replace with a larger, embedded culvert
No	5.00	0.56	4	No	No	Deep Fill	Low	1.12	0	10	0	10	3	23	Barrier	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	3.00	0.60	3	Yes	No	Deep Fill	Medium	1.00	0	0	0	10	3	13	Passable			Culvert is buried in beaver pond - no recent beaver activity, remove dam and replace culvert
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	6.00	0.93	9.5	No	No	Deep Fill	Low	2.07	0	10	0	10	6	26	Barrier	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	1.26	11	No	No	Deep Fill	Low	1.58	0	5	0	5	6	16	Potential	Backwater		No habitat present, no action required
No	2.00	6.16	4	No	No	Deep Fill	High	2.80	3	10	5	5	6	29	Barrier	Open Bottom Structure	6.20	Replace with OBS
No	2.00	3.00	4	No	No	Deep Fill	High	1.58	0	10	5	5	6	26	Barrier	Open Bottom Structure	3.00	replace with OBS
No	3.00	0.83	1	No	No	Deep Fill	Low	0.92	0	10	0	10	0	20	Barrier	Backwater		No habitat present, no action required
No	6.00	0.63	6	No	No	Deep Fill	Low	1.05	0	5	0	10	3	18	Potential	Streambed Simulation	0.60	No habitat present, no action required
No	0.50	1.20	2	No	No	Deep Fill	Low	2.00	0	5	0	0	6	11	Passable			Passable, no action required
Yes	4.00	0.77	2	No	No	Deep Fill	Low	1.28	3	10	0	10	3	26	Barrier	Removal		Bottom rusted out, should be replaced - no habitat, no fisheries action required
No	8.00	1.90	5	No	No	Deep Fill	High	3.17	6	10	10	10	6	42	Barrier	Backwater		If culvert is proven a barrier, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	0.87	2	No	No	Deep Fill	Medium	1.45	0	10	0	5	6	21	Barrier	Streambed Simulation		If culvert is proven a barrier, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	6.00	0.60	16	No	No	Deep Fill	Low	1.33	0	10	0	10	6	26	Barrier	Backwater		If culvert is proven a barrier, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	7.00	0.45	14	No	No	Deep Fill	Low	1.00	3	10	5	10	3	31	Barrier	Streambed Simulation	0.50	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	6.00	0.40	5	No	No	Deep Fill	Low	0.40	0	10	0	10	0	20	Barrier	Streambed Simulation	0.40	No habitat present, no action required
No	6.00	0.70	14	No	No	Deep Fill	Low	1.17	0	10	10	10	3	33	Barrier	Streambed Simulation	0.70	If culvert is proven a barrier, replace with an embedded culvert
No	10.00	1.10	14	No	No	Deep Fill	Low	1.00	0	10	0	10	3	23	Barrier	Streambed Simulation	1.20	If culvert is proven a barrier, replace with a larger, embedded culvert
No	12.00	1.10	18	No	No	Deep Fill	Low	1.10	0	10	0	10	3	23	Barrier	Streambed Simulation	1.10	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	2.70	1.5	No	No	Deep Fill	Medium	4.50	0	10	0	5	6	21	Barrier	Backwater		If culvert is proven a barrier, use weirs to backwater
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	1.00	0.70	2	No	No	Deep Fill	Medium	1.17	0	10	0	5	3	18	Potential	Backwater		If culvert is proven a barrier, use weirs to backwater
No	12.00	0.77	12	No	No	Deep Fill	Low	1.71	0	10	10	10	6	36	Barrier	Streambed Simulation	0.30	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Logs placed in creek with dirt fill - no fish habitat or access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
Yes	12.00	1.26	10	No	No	Deep Fill	Low	2.10	0	10	10	10	6	36	Barrier	Removal		Remove culvert, and deactivate road
No	13.00	0.74	11	No	No	Deep Fill	Low	1.23	0	10	5	10	3	28	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
Yes	8.00	0.98	36	No	No	Deep Fill	Medium	1.96	0	10	0	10	6	26	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove geotextiles that are present
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove logs and debris from crossing location
No	5.50	0.82	4	No	No	Shallow Fill	Low	1.37	0	10	0	10	6	26	Barrier	Removal		No fish access from d/s, remove if road no longer in use
Yes	6.50	0.76	12	Yes	No	Shallow Fill	Medium	1.52	0	10	10	10	6	36	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Road not mapped, no habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
No	5.50	2.70	6	Yes	No	Shallow Fill	High	3.00	3	10	5	10	6	34	Barrier	Removal		Remove culvert, and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Road is blown out and channel needs to be cleaned out and debris removed
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
Yes	5.50	1.35	4	No	No	Shallow Fill	High	1.29	0	10	0	10	3	23	Barrier	Streambed Simulation	1.35	Unmapped culvert. If proven to be a barrier, install an embedded culvert
No	7.00	1.32	3	No	No	Shallow Fill	High	1.26	0	10	0	10	3	23	Barrier	Streambed Simulation	1.32	Unmapped culvert. If proven to be a barrier, install an embedded culvert
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required

Yes	4.50	1.81	8	No	Yes	Shallow Fill	High	4.53	0	10	0	10	6	26	Barrier	Open Bottom Structure	2.00	Several fish observed in outlet pool and immediately downstream
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	5.00	1.07	8	No	No	Shallow Fill	Medium	2.68	0	10	5	10	6	31	Barrier	Streambed Simulation	1.00	If not replaced, culvert should be cleaned as it is quite blocked.
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
No	3.00	2.91	3	No	No	Deep Fill	High	3.23	0	10	0	10	6	26	Barrier	Streambed Simulation	2.20	Culvert is blown out, and should be replaced with an embedded culvert
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Remove logs and debris from crossing location
Yes	6.00	2.95	3	No	No	Shallow Fill	High	4.92	0	10	5	10	6	31	Barrier	Streambed Simulation	3.00	Culvert is not carrying water, log crossing adjacent to culvert is not sufficient.
Yes	6.00	0.84	4	No	No	Shallow Fill	Medium	1.75	0	10	10	10	6	36	Barrier	Streambed Simulation	0.84	Culvert outlet is ~90% blocked, needs to be replaced with a properly embedded culvert.
				No	No			0.00	0	0	0	0	0	0	Passable			Barrier - logs are blocking stream, needs to be removed
No	3.50	0.00	3	Yes	No	Deep Fill	High	0.00	0	10	0	10	0	20	Barrier	Removal		Beaver pond has buried culvert, should be removed
				Yes	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				Yes	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		No fish habitat present, logs in channel should be removed.
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Crossing has been removed, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
Yes	6.00	0.73	7	No	No	Deep Fill	Low	1.62	0	10	0	10	6	26	Barrier	Streambed Simulation	0.70	No upstream habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	11.00	0.96	17	No	No	Deep Fill	Low	2.13	0	10	10	10	6	36	Barrier	Streambed Simulation	1	Too steep for fish access, no action required
Yes	10.00	1.60	17	No	No	Deep Fill	Low	1.78	3	10	10	10	6	39	Barrier	Streambed Simulation	1.6	No upstream habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Crossing has been removed, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Old bridge has collapsed in channel, and should be removed
No	8.00	1.17	9	No	No	Deep Fill	Low	2.34	0	10	0	10	6	26	Barrier	Streambed Simulation	1.2	If culvert is proven a barrier install a larger, embedded culvert
No	8.00	1.30	12	No	No	Shallow Fill	Medium	2.17	3	10	5	10	6	34	Barrier	Streambed Simulation	1.30	If culvert is proven a barrier install a larger, embedded culvert
No	10.00	0.80	14	No	No	Deep Fill	Low	1.33	0	10	0	10	6	26	Barrier	Streambed Simulation	0.80	No fish habitat present, no action required
No	5.00	0.00	7	No	No	Shallow Fill	Low	0.00	0	10	0	10	0	20	Barrier	Streambed Simulation		No fish habitat present, no action required
Yes	6.00	0.87	12	No	No	Deep Fill	Medium	0.73	0	10	10	10	0	30	Barrier	Backwater		If culvert is proven a barrier, backwater it using weirs
No	7.00	1.17	4	No	No	Deep Fill	Medium	0.98	0	10	0	10	0	20	Barrier	Backwater		If culvert is proven a barrier, backwater it using weirs
				No	No			0.00	0	0	0	0	0	0	Passable			Remove debris from old bridge from channel
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No upstream habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Old bridge has fallen in, but channel has moved ~2m N of bridge location, and it is not creating a barrier
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Crossing has been removed, no action required
No	4.00	0.91	11	No	No	Deep Fill	Low	2.02	0	10	10	10	6	36	Barrier	Removal		No fish habitat present, culvert is a barrier to flow and should be removed
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Bridge has been removed, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Bridge has been removed, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Crossing has been removed, but some debris still in stream that may need to be removed.
				No	No			0.00	0	0	0	0	0	0	Passable			Old bridge starting to fall into creek, should be removed
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Crossing has been removed, but lots of debris still in stream that needs to be removed
No	2.00	1.53	2	No	No	Deep Fill	High	0.96	0	10	0	5	0	15	Potential	Streambed Simulation	1.50	If culvert is proven a barrier install a single, embedded culvert
No	0.50	1.73	1	No	Yes	Deep Fill	Medium	1.92	0	10	0	0	6	16	Potential	Streambed Simulation	1.70	If culvert is proven a barrier install a larger, embedded culvert
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, no action required NOTE: same location as mapped crossing 284377
Yes	2.00	1.13	3	No	No	Deep Fill	Low	1.88	0	10	0	5	6	21	Barrier	Streambed Simulation	1.20	Culvert is damaged and restricting flow, needs to be replaced
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	1.50	4.60	1	No	No	Deep Fill	Low	23.00	0	10	0	5	6	21	Barrier	Backwater		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No defined channel, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	4.00	0.97	3	No	No	Deep Fill	Low	1.62	0	10	0	10	6	26	Barrier	Streambed Simulation	1.00	No defined channel, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	Yes			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	1.50	0.70	6	No	No	Deep Fill	Low	2.80	0	10	0	5	6	21	Barrier	Backwater		Mapped crossing 286309 had identical UTM locations as 286308 - same crossing
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	4.00	1.32	3	No	No	Deep Fill	Low	2.64	0	10	0	10	6	26	Barrier	Removal		Very low habitat value, but culvert is damaged and may need to be replaced
No	2.00	0.56	3	No	No	Deep Fill	Low	1.24	0	10	0	5	3	18	Potential	Additional Substrate Material		No fish habitat present, no action required
Yes	9.00	0.93	11	No	No	Deep Fill	Low	2.07	0	10	5	10	6	31	Barrier	Streambed Simulation	1.00	No upstream habitat present, no action required
No	2.00	0.90	1	No	No	Deep Fill	Medium	1.13	0	10	0	5	3	18	Potential	Additional Substrate Material		Culvert sould be passable, no action required
No	8.00	0.70	14	No	No	Deep Fill	Low	1.40	0	10	0	10	6	26	Barrier	Streambed Simulation	0.70	No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Channel intermittent and poorly defined, no fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required

No	8.00	0.73	45	No	No	Deep Fill	Low	1.22	0	10	10	10	3	33	Barrier	Streambed Simulation	0.70	Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	0.84	2	No	No	Deep Fill	Low	1.68	0	10	0	5	6	21	Barrier	Backwater		No fish habitat present, no action required
No	0.50	4.97	2	No	Yes	Deep Fill	High	1.38	3	10	0	0	6	19	Potential	Streambed Simulation	5.00	Mapped site 286634 was found to be the same structure as 286633
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	2.00	1.74	3	Yes	No	Deep Fill	Medium	1.45	0	10	10	5	6	31	Barrier	Streambed Simulation	1.75	If culvert is proven a barrier install a larger, embedded culvert
Yes	6.00	0.57	25	No	No	Deep Fill	Low	0.71	3	10	10	10	0	33	Barrier	Streambed Simulation	0.60	No upstream habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Channel not as mapped, passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.50	5.67	1	No	No	Deep Fill	High	1.89	6	10	0	5	6	27	Barrier	Open Bottom Structure	5.20	If culvert is proven to be a barrier, install OBS
No	0.50	5.54	2	No	No	Deep Fill	High	1.39	3	5	0	0	6	14	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	4.17	1	No	No	Deep Fill	High	1.74	3	10	0	5	6	24	Barrier	Open Bottom Structure	5.40	If culvert is proven to be a barrier, install OBS
No	0.50	2.30	1	No	No	Deep Fill	Medium	1.44	0	5	0	0	6	11	Passable			Inlet of W culvert is badly damaged and needs to be replaced
Yes	7.00	1.47	4	No	No	Deep Fill	Medium	1.23	0	10	0	10	3	23	Barrier	Streambed Simulation	1.50	Property owners say fish do pass the culvert and spawn upstream of it.
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No fish habitat present, no action required
No	6.00	0.50	16	No	No	Deep Fill	Low	0.83	0	10	5	10	0	25	Barrier	Backwater		If culvert is proven a barrier, backwater it using weirs
No	0.50	2.57	2	No	No	Deep Fill	High	1.84	3	0	0	0	6	9	Passable			Passable, no action required
No	4.00	1.00	3	No	No	Deep Fill	Low	2.00	0	10	0	10	6	26	Barrier	Streambed Simulation	1.00	No fish habitat present, no action required
No	4.00	2.60	5	No	No	Deep Fill	High	2.17	0	10	0	10	6	26	Barrier	Streambed Simulation	2.60	If culvert is proven a barrier install a larger, embedded culvert
No	1.00	0.37	2	No	No	Deep Fill	Low	0.62	3	5	0	5	0	13	Passable			Passable, no action required
No	2.00	1.57	2	No	No	Deep Fill	Low	2.62	0	10	0	5	6	21	Barrier	Backwater		No fish habitat present, no action required
No	3.00	0.50	1	No	No	Deep Fill	Low	1.00	0	5	0	10	3	18	Potential	Backwater		No upstream habitat present, no action required
No	3.00	1.10	1	No	No	Deep Fill	Low	1.83	3	10	0	10	6	29	Barrier	Backwater		No fish acess, downstream channel flows through ditch only, no action required
Yes	3.50	2.06	4	No	No	Deep Fill	High	2.58	0	10	0	10	6	26	Barrier	Streambed Simulation	2.00	cv too small for channel, replace with embedded, larger cv
No	5.50	1.02	1	No	No	Shallow Fill	Low	2.13	0	10	0	10	6	26	Barrier	Removal		Culvert is plugged, should be removed, and deactivate road
No	4.00	2.70	3.5	No	No	Deep Fill	High	1.69	0	0	0	10	6	16	Potential	Open Bottom Structure	2.70	potential, remove and install OBS if barrier, but cv is newly installed, should be passable
No	1.00	0.80	3	No	No	Deep Fill	Medium	1.78	0	10	5	5	6	26	Barrier	Streambed Simulation	0.80	sign on road indicates fish presence, should be replaced with larger, embedded cv if fish present
Yes	2.00	0.57	6	No	No	Deep Fill	Low	0.63	0	0	0	5	0	5	Passable			passable, debris should be cleared from inlet
No	3.00	1.50	2	No	No	Deep Fill	High	0.88	0	10	0	10	0	20	Barrier	Open Bottom Structure	1.50	Appears passable at site, if proven barrier, replace with OBS (Currently 2 cv's)
No	3.00	4.60	7	No	No	Deep Fill	High	1.92	3	10	10	10	6	39	Barrier	Open Bottom Structure	4.60	Replace with 4.6m OBS if proven a barrier
				No	No			0.00	0	0	0	0	0	0	Passable			Barrier - logs in stream blocking passage and flow - needs to be removed to prevent washout from happening
No	1.00	0.43	6	No	No	Deep Fill	Low	0.54	0	10	0	5	0	15	Potential	Streambed Simulation	0.45	Corroded for ~25% of culvert, should be replaced
No	2.00	0.73	4	No	No	Deep Fill	Low	1.22	0	10	0	5	3	18	Potential	Backwater		No fish habitat present, no action required
No	2.00	0.25	5	No	No	Deep Fill	Low	0.42	0	10	0	5	0	15	Potential	Backwater		No fish habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.50	5.70	1.5	No	No	Deep Fill	High	2.11	0	10	0	5	6	21	Barrier	Additional Substrate Material		Only partially embedded, may need to install 2.7m OBS if proven a barrier
Yes	1.00	3.97	4	No	No	Deep Fill	High	2.21	3	5	0	5	6	19	Potential	Backwater		Boulders at inlet should be removed
No	2.50	1.80	23	No	No	Deep Fill	Low	1.89	0	10	5	5	6	26	Barrier	Streambed Simulation	1.80	Replace with embedded culvert if fish present, or remove and deactivate road
No	3.50	0.78	2	No	No	Deep Fill	Low	1.56	0	10	5	10	6	31	Barrier	Removal		Remove and deactivate road
No	6.00	0.47	8	No	No	Deep Fill	Low	0.78	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	2.50	0.77	3	No	No	Deep Fill	Medium	0.77	0	10	0	5	0	15	Potential	Removal		Remove and fully deactivate road
No	1.50	0.50	13	No	No	Deep Fill	Low	1.00	0	10	0	5	3	18	Potential	Removal		No habitat, remove culvert and fully deactivate road
No	2.50	0.53	5	No	No	Deep Fill	Low	1.18	0	10	10	5	3	28	Barrier	Removal		Stream not mapped, remove culvert and fully deactivate road
No	2.00	1.17	3	No	No	Deep Fill	Medium	1.46	0	10	0	5	6	21	Barrier	Removal		Remove and fully deactivate road
No	2.50	0.73	3	No	No	Deep Fill	Low	1.22	0	10	0	5	3	18	Potential	Removal		Remove and fully deactivate road
				No	No			0.00	0	0	0	0	0	0	Passable			Remove logs that are blocking the channel
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Debris at crossing location should be removed
				No	No			0.00	0	0	0	0	0	0	Passable			Bridge is collapsed and blocking channel - not passable, remove debris
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No habitat, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Removal		Old collapsed bridge in stream is blocking passage and flow - Remove debris
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
No	1.00	0.60	1	No	No	Deep Fill	Low	1.00	0	10	10	5	3	28	Barrier	Streambed Simulation	0.60	No fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	2.00	2.36	3	No	No	Deep Fill	High	2.48	0	10	0	5	6	21	Barrier	Open Bottom Structure	2.40	Replace with OBS if proven a barrier
Yes	2.00	3.33	2	No	No	Deep Fill	High	1.67	6	10	5	5	6	32	Barrier	Open Bottom Structure	3.40	Replace with OBS if proven a barrier
No	1.50	0.73	2	No	No	Deep Fill	Low	0.52	3	10	0	5	0	18	Potential	Backwater		No habitat upstream, no action required (crossing has 2 culverts)
No	1.50	1.47	3	No	No	Deep Fill	Medium	1.84	0	10	0	5	6	21	Barrier	Streambed Simulation	1.50	No habitat upstream, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	5.00	0.87	10	No	No	Deep Fill	Medium	0.87	0	10	5	10	0	25	Barrier	Backwater		Backwater if fish present and proven to be a barrier
No	2.50	0.00	11	No	No	Deep Fill	Low	0.00	0	10	0	5	0	15	Potential	Backwater		No channel present, cv is in the middle of a cutblock, may be temporarily modified
No	2.00	0.00	12	No	No	Deep Fill	Low	0.00	0	10	0	5	0	15	Potential	Backwater		No defined channel present, stream does no exist as far up as mapped
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	1.00	0.00	6	No	No	Deep Fill	Low	0.00	0	10	0	5	0	15	Potential	Backwater		Channel poorly defined, intermittent - no habitat, no action required
No	5.00	0.00	8	No	No	Deep Fill	Low	0.00	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	5.00	0.50	12	No	No	Deep Fill	Low	0.83	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	No habitat present, no action required
No	7.00	0.50	27	No	No	Deep Fill	Low	0.83	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Too steep for fish access, no action required
No	4.00	1.07	16	No	No	Deep Fill	Medium	0.93	0	10	10	10	0	30	Barrier	Backwater		If fish present and cv confirmed a barrier use weirs to backwater
No	1.00	0.36	30	No	No	Deep Fill	Low	0.80	0	10	0	5	0	15	Potential	Backwater		Too steep for fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	6.00	0.63	16	No	No	Deep Fill	Low	0.66	3	10	0	10	0	23	Barrier	Backwater		If culvert is proven a barrier, backwater using weirs

No	1.50	0.00	16	No	No	Deep Fill	Low	0.00	0	10	0	5	0	15	Potential	Backwater		Channel poorly defined, intermittent - no habitat, no action required
No	4.00	0.50	15	No	No	Deep Fill	Low	0.83	0	10	5	10	0	25	Barrier	Streambed Simulation	0.50	No upstream habitat, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	12.00	0.83	7	No	No	Deep Fill	Low	0.83	0	10	0	10	0	20	Barrier	Streambed Simulation	0.80	Channel poorly defined, intermittent - no habitat, no action required
No	7.00	0.00	12	No	No	Deep Fill	Low	0.00	0	10	10	10	0	30	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	9.00	0.27	14	No	No	Deep Fill	Low	0.60	3	10	0	10	0	23	Barrier	Streambed Simulation	0.30	Channel poorly defined, intermittent - no habitat, no action required
No	5.00	0.83	14	No	No	Deep Fill	Medium	0.83	0	10	0	10	0	20	Barrier	Streambed Simulation	0.80	1.4m falls immediately upstream of inlet, backwater using weirs if fish present and culvert is proven a barrier
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	4.00	0.37	11	No	No	Deep Fill	Low	0.62	0	10	0	10	0	20	Barrier	Streambed Simulation	0.40	Channel poorly defined, intermittent - no habitat, no action required
No	3.50	0.55	5	No	No	Deep Fill	Low	0.92	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	2.50	0.00	20	No	No	Deep Fill	Low	0.00	0	10	0	5	0	15	Potential	Backwater		No channel present, cv is in the middle of a cutblock, may be temporarily modified
No	3.50	0.60	12	No	No	Deep Fill	Low	1.00	3	10	10	10	3	36	Barrier	Streambed Simulation	0.60	Channel poorly defined, intermittent - no habitat, no action required
No	8.00	0.77	19	No	No	Deep Fill	Low	0.77	0	10	10	10	0	30	Barrier	Streambed Simulation	0.80	Very steep, if fish present and culvert is confirmed a barrier use weirs to backwater
No	7.00	0.97	21	No	No	Deep Fill	Medium	0.81	0	10	10	10	0	30	Barrier	Streambed Simulation	1.00	Very steep, if fish present and culvert is confirmed a barrier use weirs to backwater
Yes	2.00	0.43	2	No	No	Deep Fill	Low	1.08	0	10	0	5	3	18	Potential	Streambed Simulation	0.50	Falls downstream of site, no fish access
No	1.00	0.43	2	No	No	Deep Fill	Low	0.72	3	10	0	5	0	18	Potential	Streambed Simulation	0.50	Falls downstream of site, no fish access
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	8.00	0.33	15	No	No	Deep Fill	Low	0.55	0	10	10	10	0	30	Barrier	Streambed Simulation	0.40	Channel poorly defined, intermittent - no habitat, no action required
No	10.00	0.57	18	No	No	Deep Fill	Low	0.95	0	10	5	10	0	25	Barrier	Streambed Simulation	0.60	Channel poorly defined, intermittent - no habitat, no action required
No	6.00	0.00	12	No	No	Deep Fill	Low	0.00	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	4.00	0.00	12	No	No	Deep Fill	Low	0.00	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	3.50	0.87	5	No	No	Deep Fill	Medium	0.87	0	10	5	10	0	25	Barrier	Backwater		If fish present and culvert is confirmed a barrier use weirs to backwater
No	7.00	0.00	12	No	No	Deep Fill	Low	0.00	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	Channel poorly defined, intermittent - no habitat, no action required
No	6.00	0.85	11	No	No	Deep Fill	Low	0.85	0	10	0	10	0	20	Barrier	Streambed Simulation	1.00	If culvert is proven a barrier, install a properly embedded culvert
No	4.00	0.30	15	No	No	Deep Fill	Low	0.67	0	10	0	10	0	20	Barrier	Streambed Simulation	0.45	No habitat present, no action required
No	2.00	0.25	2	No	No	Deep Fill	Low	0.42	0	10	0	5	0	15	Potential	Removal		No habitat present, remove and deactivate road
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No habitat, no action required
No	2.00	0.20	5	No	No	Deep Fill	Low	0.33	0	10	0	5	0	15	Potential	Streambed Simulation	0.60	No habitat, no action required
No	8.00	0.28	8	No	No	Deep Fill	Low	0.47	0	10	0	10	0	20	Barrier	Removal		Very poor habitat present, remove and deactivate road
No	2.50	1.00	14	No	No	Deep Fill	Low	1.67	0	10	0	5	6	21	Barrier	Removal		Very poor habitat present, remove and deactivate road
No	6.00	0.78	18	No	No	Deep Fill	Low	1.30	0	10	5	10	6	31	Barrier	Removal		Mapped site 284361 is at the same location as 284360 - the streams join upstream of the road
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Culvert removed, no action required
No	2.00	1.90	4	No	No	Deep Fill	Low	3.17	3	10	0	5	6	24	Barrier	Backwater		Large mossy wetland downstream, if fish present and culvert is proven a barrier, backwater
No	3.00	0.62	12	No	No	Deep Fill	Low	1.03	0	10	0	10	3	23	Barrier	Backwater		Backwater if fish present and proven to be a barrier
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, beginning to deteriorate, should be removed if road no longer in use
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, beginning to deteriorate, should be removed if road no longer in use
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, beginning to deteriorate, should be removed if road no longer in use
				No	No			0.00	0	0	0	0	0	0	Passable			Barrier - collapsing into channel and severely restricting flow - needs to be removed
No	0.50	2.03	4	No	No	Deep Fill	Medium	2.71	3	10	5	0	6	24	Barrier	Streambed Simulation		Culvert marked as salmon and trout habitat, if proven to be a barrier, use streambed simulation
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Barrier - logs in stream blocking passage and flow - needs to be removed to prevent washout from happening
				No	No			0.00	0	0	0	0	0	0	Passable			Bridge has been partially removed, the remained needs to be removed as well
				No	No			0.00	0	0	0	0	0	0	Passable			No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			No fish access, no action required
No	12.00	0.74	6	No	No	Deep Fill	Low	1.85	0	10	10	10	6	36	Barrier	Streambed Simulation	0.80	Culvert placed over top of log crossing. No fish access, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
				No	No			0.00	0	0	0	0	0	0	Unkown	Additional Substrate Material		Passable, no action required
Yes	12.00	0.55	21	No	No	Deep Fill	Low	1.10	0	10	0	10	3	23	Barrier	Streambed Simulation	0.60	No habitat present, no action required
				Yes	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
No	5.00	2.95	11	No	No	Shallow Fill	High	1.81	3	10	10	10	6	39	Barrier	Open Bottom Structure	3.00	Currently 2 culverts, blocking fish passage
Yes	10.00	3.19	32	No	No	Shallow Fill	Low	5.32	3	10	10	10	6	39	Barrier	Removal		No fish access, but culvert is too small for flow and needs to be replaced as road is failing at inlet
Yes	7.50	0.57	6	No	No	Shallow Fill	Low	0.95	0	10	5	10	0	25	Barrier	Streambed Simulation	0.60	No habitat present, no action required
				No	No			0.00	0	0	0	0	0	0	Passable			Passable, no action required
Yes	6.00	0.39	8	No	No	Deep Fill	Low	0.98	0	5	0	10	0	15	Potential	Removal		No fish habitat, culvert quite plugged and rusted - should be cleaned or replaced
No	8.00	0.42	6	No	No	Deep Fill	Low	1.05	0	5	0	10	3	18	Potential	Streambed Simulation	0.45	No fish habitat present, culvert needs to be cleaned out
Yes	5.00	0.56	4	No	No	Deep Fill	Low	0.93	0	10	0	10	0	20	Barrier	Streambed Simulation	0.60	No fish habitat present, culvert needs to be cleaned out
No	5.50	0.50	3	No	No	Deep Fill	Low	0.83	0	10	0	10	0	20	Barrier	Streambed Simulation	0.50	No fish habitat present, no action required
Yes	6.00	0.00	6	No	No	Deep Fill	Low	0.00	0	10	5	10	0	25	Barrier	Streambed Simulation	0.40	No fish habitat present, no action required
Yes	8.00	0.00	12	No	No	Deep Fill	Low	0.00	0	10	10	10	0	30	Barrier	Streambed Simulation	0.40	No fish habitat present, no action required
Yes	7.00	3.05	13	No	No	Deep Fill	High	2.18	3	10	5	10	6	34	Barrier	Open Bottom Structure	3.10	Culvert too small for stream
No	1.50	1.25	2	No	No	Deep Fill	Medium	1.14	3	10	0	5	3	21	Barrier	Streambed Simulation	1.30	Culvert is starting to rust out and may need replacing.
No	1.00	0.32	3	No	No	Deep Fill	Low	0.64	0	10	0	5	0	15	Potential	Streambed Simulation	0.40	Inlet and outlet need to be cleared of vegetation, inlet is rusted out, may need to be replaced
No	6.00	0.42	11	No	No	Deep Fill	Low	0.84	0	10	10	10	0	30	Barrier	Streambed Simulation		No fish access, no action required
No	4.00	1.50	12	No	No	Deep Fill	Low	2.31	0	10	0	10	6	26	Barrier	Streambed Simulation		Fish access unlikely, vegetation should be cleared from inlet and outlet
No	4.00	0.58	6	No	No	Deep Fill	Low	0.97	0	10	0	10	0	20	Barrier	Streambed Simulation		Channel primarily receives ditch drainage, vegetation should be cleared from inlet and outlet
No	2.00	0.50	2	No	No	Deep Fill	Low	1.25	0	10	0	5	3	18	Potential	Streambed Simulation		No upstream fish habitat present, no action required
No	4.00	1.40	2	No	No	Deep Fill	Low	2.33	0	10	0	10	6	26	Barrier	Streambed Simulation		Vegetation should be cleared from inlet and outlet, otehrwise culvert looks to be passable if fish present
No	5.00	2.05	4	No	No	Deep Fill	High	1.64	3	10	0	10	6	29	Barrier	Streambed Simulation	2.1	Culvert should be replaced with properly embedded structure if it is proven to be a barrier
No	3.00	1.60	3	No	Yes	Deep Fill	High	1.60	0	10	10	10	6	36	Barrier	Streambed Simulation	1.6	Culvert should be replaced with properly embedded structure, fry observed at outlet
No	2.00	1.00	2	No	No	Deep Fill	Medium	1.25	6	10	10	5	3	34	Barrier	Streambed Simulation	1	Culvert should be replaced with properly embedded structure
No	1.00	1.40	4	No	No	Deep Fill	High	0.82	3	10	0	5	0	18	Potential	Additional Substrate Material		No fisheries concerns, culvert should be passable

Yes	2.00	1.90	2	Yes	No	Deep Fill	Medium	1.58	0	10	0	5	6	21	Barrier	Backwater		Beaver dam is creating a barrier at the inlet and should be removed
				No	No			0.00	0	0	0	0	0	0	Passable			No action required
				No	No			0.00	0	0	0	0	0	0	Passable			No action required

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