

From: Simmons, Daniel
To: [Collins, Michael](#)
Cc: [Nagarajah, Gobhina](#); [Muzychka, Irene](#); [Martin, Dana](#)
Subject: [Potential Junk/Spam] RE: Followups from Gilbert Bennett Interview
Date: Monday, May 6, 2019 9:11:49 PM
Attachments: [3501 Access Roads.xlsx](#)

Michael,

Gilbert Bennett had Kris Rogers, Facilities engineer investigate question 2. He has reported as follows:

Gilbert,

Please see below, my apologies for not getting this to you by Friday, this ended up taking a lot more effort than I had anticipated.

Also attached is the detail spreadsheet.

Some things to consider:

- The majority of the access roads can be considered year round access, of course that would be dependent on snow clearing during the winter months.
- Other than the areas classified as '0' all areas should be accessible with pick-up trucks.
- Classifications 1 and 2 will be highly dependent on spring break up and wet weather and the amount of traffic.
- The numbers assume there are no road or culvert washouts.
- There is a considerable amount of extra road compared to ROW (1425 km vs 1100) this is due to some of the roads that were used to access the ROW from provincial arterials.

Classification #	Description	km of Road	%
0	No access or unconfirmed access	38.54	2.7%
1	Seasonal Access only	77.98	5.5%
2	Access dependent on weather conditions and level of use	196.05	13.8%
3	Typically Year-round Access with some local areas that need consideration	548.28	38.5%
4	Year-Round Access	564.70	39.6%
Total		1425.55	

Regards,
 Dan

Daniel Simmons Q.C.
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From: Collins, Michael <MichaelCollins@muskratfallsinquiry.ca>
Sent: Tuesday, April 30, 2019 5:16 PM
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Subject: FW: Followups from Gilbert Bennett Interview

Dan,

If we can get an answer on question 3 soon that would be very helpful.

Thanks,
 Michael

Michael Collins

Associate Counsel
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Commission of Inquiry Respecting the Muskrat Falls Project

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From: Collins, Michael
Sent: Saturday, April 27, 2019 10:01 AM
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Subject: Followups from Gilbert Bennett Interview

Dan,

You asked me to send you some followup questions from the Gilbert Bennett interview:

- 1) What was the planned reliability return period for the Gull Island transmission lines as they stood in early 2010?
- 2) How much of the LIL was ultimately accessible by all-season access roads? seasonal access roads? trails? helicopter only?
- 3) What was the planned steel weight in the LIL as of August 2014? What is it today?

Thanks,
Michael

Michael Collins
Associate Counsel
Direct: 709-729-6016

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Tower ID Range	Access Road	# of KMs	Material	Classification	Seasonal or Year-Round	Region
L3501-0001 to 0063	Muskrat Falls Site Access Road	20.51	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0064 to 0071	Off Route 510, access at 3501-0071	2.24	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0072 to 0086	Off Route 510, access at 3501-0080	6.15	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0087 to 0088	Off Route 510, access at 3501-0087	0.48	Rock/OM	4	Year-Round	HVGB/Muskrat Falls
L3501-0089	Off Route 510, Spur road to Tower	0.26	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0090 to 0096	Off Route 510, access at 3501-0090	2.85	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0097 to 0105	Off Route 510, Spur road to Tower	0.86	Rock/OM	0	individual access to each structure off highway some may have been decommissioned	HVGB/Muskrat Falls
L3501-0106 to 0108	Off Route 510, access at 3501-0107	0.68	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0109 to 0110	Off Route 510, access at 3501-0109	0.48	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0111 to 0112	Off Route 510, access at 3501-0111	0.64	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0113 to 0115	Off Route 510, access at 3501-0114	0.65	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0116 to 0130	Off Route 510, access at 3501-0130	4.76	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0131 to 0141	Off Route 510, access at 3501-0131	3.88	Rock/OM	4	Year-Round	HVGB/Muskrat Falls
L3501-0142 to 0152	Off Route 510, Spur road to Tower	0.94	Rock/OM	0	individual access to each structure off highway some may have been decommissioned	HVGB/Muskrat Falls
L3501-0153 to 0154	Off Route 510, access at 3501-0153	0.33	Rock	4	Year-Round	HVGB/Muskrat Falls
L3501-0155	Off Route 510, Spur road to Tower	0.41	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0156 to 0170	Off Route 510, access at 3501-0156 or 0168	6.48	Rock/OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0171 to 0176	Off Route 510, access at 3501-0172	2.50	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0177 to 0179	Off Route 510, access at 3501-0178	0.85	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0180 to 0203	Off Route 510, access at 3501-0184 and 0202	10.28	Mostly OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0204 to 0230	Off Route 510, access at 3501-0206 and 0219	9.75	Mostly OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0231 to 0239	Off Route 510, access at 3501-0234 and 0239	3.31	Rock/OM	3	Some localized areas may be difficult	HVGB/Muskrat Falls
L3501-0240 to 0247	Off Route 510, access at 3501-0240	2.89	Mostly OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0248 to 0261	Off Route 510, access at 3501-0256	5.66	Mostly OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0262 to 0284	Off Route 510, access at 3501-0273	8.29	OM	2	confirm structural stability before use, may be rock capped	HVGB/Muskrat Falls
L3501-0285 to 0292	Off Route 510, access at 3501-0290					HVGB/Muskrat Falls
L3501-0293 to 0316	Off Route 510, access at 3501-0299					HVGB/Muskrat Falls
L3501-0317 to 0319	Off Route 510, access at 3501-0318					HVGB/Muskrat Falls
L3501-0320 to 0321	Off Route 510, access at 3501-0320					HVGB/Muskrat Falls
L3501-0322	Off Route 510, Spur road to Tower					HVGB/Muskrat Falls
L3501-0328 to 0333	Off Route 510, access at 3501-0328					HVGB/Muskrat Falls
L3501-0334 to 0342	Off Route 510, access at 3501-0336					HVGB/Muskrat Falls
L3501-0343 to 0350	Off Route 510, access at 3501-0347 and 0350					HVGB/Muskrat Falls
L3501-0351 to 0353	Off Route 510, Spur road to Tower					HVGB/Muskrat Falls
L3501-0354 to 0371	Off Route 510, access at 3501-0354					HVGB/Muskrat Falls
L3501-0372 to 0401	Off Route 510, access at 3501-0380					HVGB/Muskrat Falls
L3501-0402 to 1252	St. Paul River Road, access at 3501-0403 (North end) 3501-1238 (South end) via Berry Picking Road		Rock	4	Year-Round	St. Paul River Road
L3501-1253 to 1255	Access at Nascopi ski trail - Town of Forteau					Forteau
L3501-1256 to 1272	Access at 3501-1272 across the street from Forteau Transition Compound Access road					Forteau
L3501-1273 to 1282	Access at Forteau Transition Compound Access road					Forteau
ISLAND						
L3501-1283 to 1373	Middle Brook Access, Winter Construction Zone, No Permanent access, ATV Only	35.36	Winter road	0	ATV access only	Northern Peninsula
L3501-1374 to 1395	Route 430 (Viking Trail) - onto Route 432 (Main Brook Highway). Access at 3501-1388 Round Pond Resource Rd	11.92	Rock	4	Year-Round	Northern Peninsula
L3501-1396 to 1413	Route 430 (Viking Trail) - onto Route 432 (Main Brook Highway). Access at 3501-1397 East Castors Resource Rd	9.13	Rock	4	Year-Round	Northern Peninsula
L3501-1414 to 1426	Route 430 (Viking Trail) - onto Route 432 (Main Brook Highway). Access at 3501-1397 East Castors Resource Rd/Brig Bay	6.09	Rock	4	Year-Round	Northern Peninsula
L3501-1427 to 1455	Route 430 (Viking Trail) - Squid Cove Resource Road (North)	17.82	Rock/OM	3	Existing access to ROW will need to be assessed.	Northern Peninsula
L3501-1456 to 1522	Route 430 (Viking Trail) - Squid Cove Resource Road (South)	29.97	Rock/OM	3	Existing access to ROW will need to be assessed.	Northern Peninsula

Tower ID Range	Access Road	# of KMs	Material	Classification	Seasonal or Year-Round	Region
L3501-1523 to 1549	Route 430 (Viking Trail) - Hawke's Bay - East River Resource Road North 'Wiggies Barrens'	13.90	Rock/OM	3	Some localized areas may be difficult	Northern Peninsula
L3501-1550 to 1560	Route 430 (Viking Trail) - Hawke's Bay - East River Resource Road South 'Indian Steady'	8.54	Rock/OM	3	Some localized areas may be difficult	Northern Peninsula
L3501-1561 to 1596	Route 430 (Viking Trail) - Hawke's Bay - Mooney Block Resource Road via Farm Rd.	19.90	Rock	4	Year-Round	Northern Peninsula
L3501-1597 to 1624	Route 430 (Viking Trail) - Hawke's Bay - Camp 12 Rd. via Mooney Block Rd.	12.56	Rock	4	Year-Round	Northern Peninsula
L3501-1625 to 1663	Route 430 (Viking Trail) - Batteau Barrens (North).	22.14	Rock	4	Year-Round	Northern Peninsula
L3501-1664 to 1724	Route 430 (Viking Trail) - Batteau Barrens (South) via Zinc Mine Rd.	29.59	Rock	4	Year-Round	Northern Peninsula
L3501-1725 to 1792	Route 430 (Viking Trail) - LRM North via Batteau Barrens (South)	19.47	Rock	4	Year-Round	Long Range Mountains
L3501-1793 to 1949	LRM South via Taylor's Brook Rd.	41.33	Rock	4	Year-Round	Long Range Mountains
L3501-1950 to 1976	Pickett's Branch via Taylor's Brook Rd.	13.63	Rock/OM	3	Some localized areas may be difficult	Taylor's Brook
L3501-1977 to 2014	Camp 172 Rd. via Taylor's Brook Rd.	16.30	Rock/OM	3	Some localized areas may be difficult	Taylor's Brook
L3501-2015 to 2034	Gail's Brook North via Taylor's Brook Rd.	9.79	Rock/OM	3	Some localized areas may be difficult	Taylor's Brook
L3501-2035 to 2046	Clam Pond North via Taylor's Brook Rd.	3.99	Rock/OM	3	Some localized areas may be difficult	Taylor's Brook
L3501-2047 to 2052	Wayne Avery's Rd. via Taylor's Brook Rd.	1.96	Rock/OM	3	Some localized areas may be difficult	Taylor's Brook
L3501-2053 to 2058	Riverside Rd. via Taylor's Brook Rd.	2.07	Rock/OM	3	Some localized areas may be difficult	Taylor's Brook
L3501-2059 to 2082	Route 420 (White Bay Highway) - Main Brook Rd.	10.73	Mostly Rock	4	Year-Round	Route 420 - Hampden
L3501-2083 to 2108	TCH near Birchy Narrows - Lynx Pond Rd.	11.70	Mostly Rock	4	Year-Round	Central West
L3501-2109 to 2110	TCH near Birchy Narrows - Spur road to Towers.	0.35	OM	2	Not for use without confirming structural stability	Central West
L3501-2111 to 2147	TCH near Birchy Narrows - Voyins Brook Access Rd.	13.60	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2148 to 2205	TCH near Sheffield Lake - Sheffield Lake Access Rd.	26.92	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2206 to 2235	TCH near South Brook - Goodyear's Cove Access.	51.18	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2236 to 2259	TCH - Dawe's Pond West Access.	30.11	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2260 to 2270	TCH - Dawe's Pond East Access.	14.04	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2271 to 2285	TCH - Catamaran Access.	6.13	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2286 to 2296	TCH - Catamaran Access/Badger Road.	4.60	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2297 to 2298	Route 370 - Buchans Highway - Spur road to Towers.	0.58	Rock/OM	3	Some localized areas may be difficult	Central West
L3501-2299 to 2377	Grand Falls (West) - via Scott Ave. and Taylor's Rd.	28.40	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2378 to 2409	Grand Falls (East) - via Scott Ave. and Taylor's Rd.	23.57	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2410	Route 360 - Bay d'Espoir Highway - Spur road to Tower.	0.30	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2411 to 2415	Route 360 - Bay d'Espoir Highway - Paradise Lake Access.	2.28	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2416 to 2481	Route 360 - Bay d'Espoir Access Road.	61.20	Mostly OM	1	Seasonal - avoid during spring	Central
L3501-2482 to 2532	TCH Near Glenwood - Beaver Brook Mine Rd.	54.22	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2533 to 2567	TCH Gambo - Mint Brook Rd. onto Deadwolf Rd.	64.16	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2568 to 2607	TCH Gambo - Mint Brook Rd. onto Triton Brook Rd.	26.20	Rock/OM	3	Some localized areas may be difficult	Central
L3501-2608 to 2636	TCH Terra Nova - Terra Nova Rd.	17.80	Rock/OM	2	Not for use without confirming structural stability(stakeholder)	East
L3501-2637 to 2648	TCH Terra Nova - Terra Nova Rd.- Sawmill Branch	27.80	Rock/OM	2	Not for use without confirming structural stability(stakeholder)	East
L3501-2649 to 2679	TCH Port Blandford - Port Blandford Access Rd.	17.14	Mostly Rock	4	Year-Round	East
L3501-2680 to 2701	TCH Port Blandford - Mile Pond Access Rd.	10.34	Rock/OM	2	Not for use without confirming structural stability	East
L3501-2702 to 2723	TCH Thorburn Lake - Thorburn Lake Access Rd.	9.67	Rock/OM	2	Not for use without confirming structural stability	East
L3501-2724 to 2743	TCH Near Clarenville - White Hills Resource Rd.	11.23	Mostly Rock	3	Some localized areas may be difficult	East
L3501-2744 to 2764	TCH Clarenville - White Hills Ski Resort Rd.	5.40	Mostly Rock	3	Some localized areas may be difficult	East
L3501-2765 to 2784	TCH Clarenville - Power Plant Rd.	13.90	Mostly Rock	3	Some localized areas may be difficult	East
L3501-2785 to 2784	TCH NW Brook-Ivany's Cove - Fortis Yard Rd.	2.81	Mostly Rock	3	Some localized areas may be difficult	East
L3501-2808 to 2817	TCH NW Brook-Ivany's Cove - Black Brook Access Rd.	5.19	Mostly Rock	4	Year-Round	East
L3501-2818 to 2832	TCH - Substation Yard Access Rd.	4.92	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2833 to 2849	TCH - Goobies - Quarry Road Access.	4.94	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2850 to 2865	TCH - Goobies - Quarry Road Access # 2.	5.72	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2866 to 2867	Sunnyside Substation Access Road	0.58	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2868 to 2879	TCH - Repeater Hill Access Rd.	4.75	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2880 to 2881	TCH - Bull Arm Access Rd.	0.54	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2882 to 2901	TCH - Jack's Pond - Newfoundland TRailway	6.96	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2902 to 2910	TCH - Newfoundland TRailway	3.63	Mostly Rock	3	Some localized areas may be difficult	Avalon
L3501-2911 to 2932	TCH - Little Hr. Access Rd.	9.30	Mostly Rock	4	Year-Round	Avalon

Tower ID Range	Access Road	# of KMs	Material	Classification	Seasonal or Year-Round	Region
L3501-2933 to 2967	TCH - TRailway (Gull Pond)	12.63	Mostly Rock	4	Year-Round	Avalon
L3501-2968 to 2974	TCH - Fair Haven Access Rd.	2.13	Mostly Rock	4	Year-Round	Avalon
L3501-2975 to 2978	TCH	1.59	Mostly Rock	4	Year-Round	Avalon
L3501-2979 to 2994	TCH - Near Beaver Pond	5.24	Mostly Rock	4	Year-Round	Avalon
L3501-2995 to 3011	TCH - Chapel Arm Station	5.60	Mostly Rock	4	Year-Round	Avalon
L3501-3012 to 3015	Off Main Rd. - Chapel Arm	0.47	Mostly Rock	4	Year-Round	Avalon
L3501-3016 to 3018	Off Arch Path Rd. - Chapel Arm	0.48	OM	2	Not for use without confirming structural stability	Avalon
L3501-3019 to 3020	Old Cabot Highway - Off Woodpath Rd. - Chapel Arm	0.31	OM	2	Not for use without confirming structural stability	Avalon
L3501-3021 to 3041	Old Cabot Highway	7.69	OM	2	Not for use without confirming structural stability	Avalon
L3501-3042 to 3047	TCH - Farm Access Rd.	1.81	OM	2	Not for use without confirming structural stability	Avalon
L3501-3048 to 3053	TCH - Accross from Route 100 (Dunville)	1.51	OM	2	Not for use without confirming structural stability	Avalon
L3501-3054	Off Route 80 - Baccalieu Trail - Heaven Rd S.	0.17	Mostly Rock	4	Year-Round	Avalon
L3501-3055	Off Route 80 - Baccalieu Trail - Old Track Rd.	0.32	Mostly Rock	4	Year-Round	Avalon
L3501-3056 to 3057	Off Route 80 - Baccalieu Trail	0.40	Mostly Rock	0	Off highway access is barricaded	Avalon
L3501-3058 to 3059	Off TCH - Whitbourne	0.37	Mostly Rock	4	Year-Round	Avalon
L3501-3060 to 3075	Off TCH - Goose Pond	5.20	Mostly Rock	4	Year-Round	Avalon
L3501-3076 to 3091	Off TCH - Ocean Pond Access	5.10	OM	2	Not for use without confirming structural stability	Avalon
L3501-3092 to 3099	Off TCH - Goulds Pond Access	2.40	Mostly OM	1	Seasonal - avoid during spring	Avalon
L3501-3100 to 3103	Off TCH - Goulds Big Pond Access	1.00	Mostly OM	1	Seasonal - avoid during spring	Avalon
L3501-3104 to 3109	Off TCH - Mahers Access	1.64	Mostly OM	1	Seasonal - avoid during spring	Avalon
L3501-3110 to 3117	Off TCH - Main Rd. Brigus JCT	2.20	Mostly OM	1	Seasonal - avoid during spring	Avalon
L3501-3118 to 3132	Off TCH - Middle Gull Pond Access	4.23	Mostly OM	1	Seasonal - avoid during spring	Avalon
L3501-3133 to 3140	Off TCH - Avondale Access Rd.	2.35	Mostly Rock	4	Year-Round	Avalon
L3501-3141 to 3147	Off TCH - Salmonier Line	1.87	Mostly Rock	4	Year-Round	Avalon
L3501-3148 to 3163	Off TCH - Near Rod & Gun Club	5.31	Mostly OM	1	Seasonal - avoid during spring	Avalon
L3501-3164 to 3189	Off TCH - Witless Bay Line to TCH Access	7.50	Mostly Rock	4	Year-Round	Avalon
L3501-3190 to 3223	Off TCH - Witless Bay Line to Soldiers Pond	11.00	Mostly Rock	4	Year-Round	Avalon