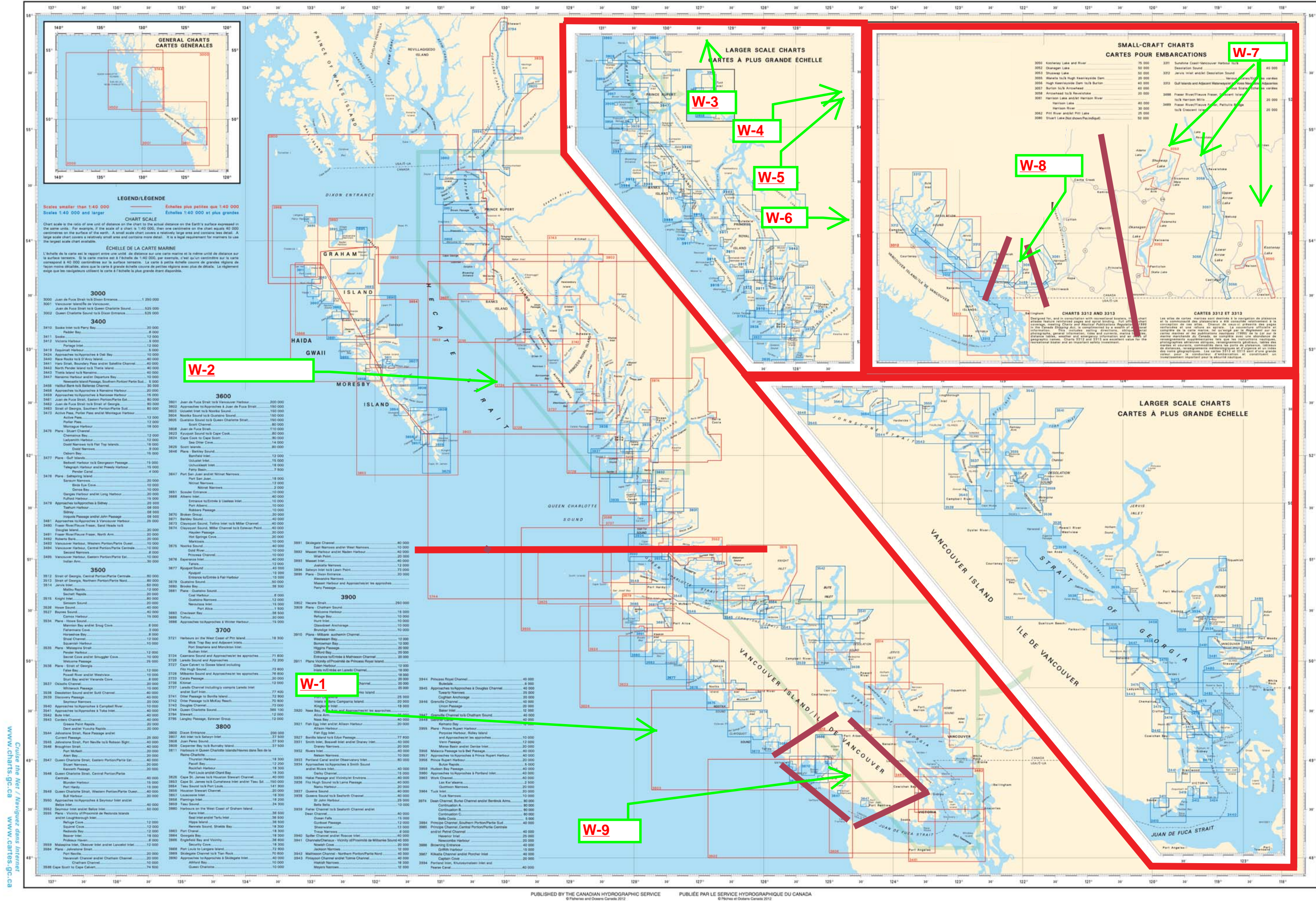


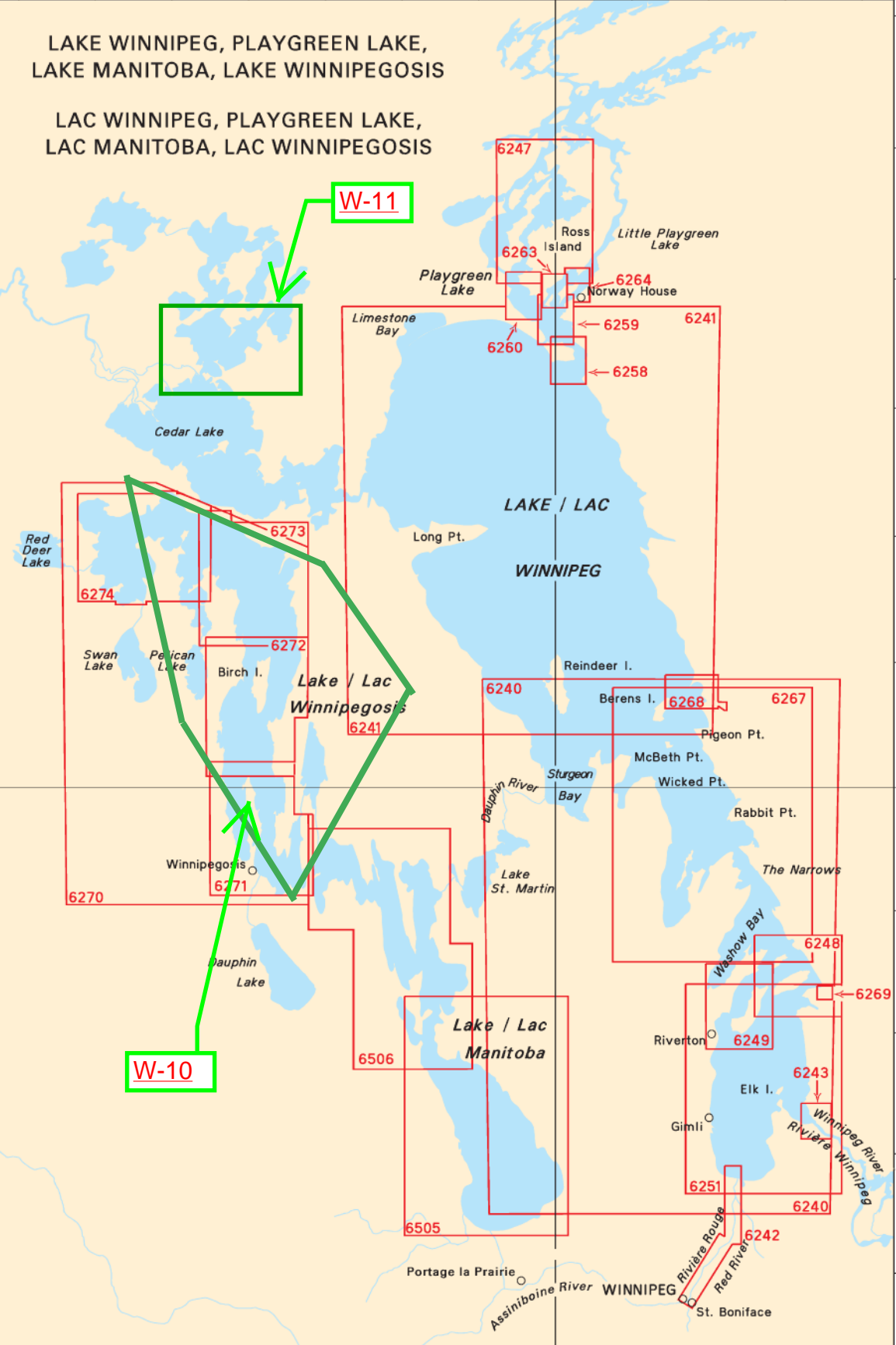
APPENDIX C.1 - WESTERN REGION,W-1 TO W-4: INDEX.

Prov./Terr.	Area	Contract Area
British Columbia	W-1	B.C., South Coast
B.C. and Yukon	W-2	B. C., Northern Coast
	W-3	Yukon Territory Southern Lakes
	W-4	Stuart Lake, Tachie and Middle Rivers
	W-5	Babine Lake
	W-6	Quesnel Lake
	W-7	Southern BC Interior Lakes
	W-8	Pitt Lake
	W-9	Southern Vancouver Island Lakes
Manitoba	W-10	L.Winnipegosis
	W-11	Moose Lake



LAKE WINNIPEG, PLAYGREEN LAKE,
LAKE MANITOBA, LAKE WINNIPEGOSIS

LAC WINNIPEG, PLAYGREEN LAKE,
LAC MANITOBA, LAC WINNIPEGOSIS



<u>Contract Area name:</u>	<u>British Columbia South Coast</u>		
<u>Contract Area no.:</u>	<u>W -1</u>		
Province(s):	British Columbia		
Contract Area Description:	The contract area includes the southern coast of B.C., from the U.S. border, to Cape Caution at the northern end of Queen Charlotte Strait		
Coast Guard Depot:	Victoria BC		
Commissioning date:	N/A.		
Decommissioning date:	N/A.		
Total no. of buoys:	55		
Maximum buoy size (dia. (m) / weight (kg)):	1.4m	1811 kg	
Maximum anchor size (weight (kg)):	1814 kg		
Maximum water depth (m) :	30m		
Overview of work activities:	<p>There are <u>no</u> seasonal buoys in this contract area, all buoys are 'year round'.</p> <p>The work includes planned cyclical mooring inspections and replacement over a 4 year cycle25 buoys have lights, the remainder are unlit.</p> <p>There is a planned scheduled visit to these buoys <u>once every four years only</u> (for the mooring replacement program, which is completed on a four year cycle).</p> <p>If the buoy is to be reused then it is to be cleaned, with designators and reflective tape replaced as required.</p> <p>Buoy V24 has a non standard mooring arrangement which requires a WorkSafe BC certified dive crew to change part of the mooring which is secured to a rockbolt.</p> <p>Buoy QT has a non standard mooring arrangement which requires a tide of less than 4m in order to change part of the mooring which is secured to a rockbolt.</p> <p>Unscheduled work includes response to discrepancies.</p> <p>Historical outage history is included as a guide for typical outage levels; allow for an additional 50% in number for additional outages.</p>		
Comments:	Buoys in this area are to be positioned with DGPS		

Planned schedule for buoy conversion (steel to plastic)

Date prévue de conversion de bouées (acier à plastique)

Contract Area	LLNO	ÉQUIPEMENT ACTUEL						NOUVEL ÉQUIPEMENT					Date du change-ment
		Bouées d'acier	Type d'ancre	Taille de l'ancres (kg)	Taille du contrepoids (kg)	Taille de la chaîne (mm)	Longueur de la chaîne (m)	Bouées de plastique	Type d'ancrel	Taille de l'ancre (kg)	Taille de la chaîne (mm)	Longueur de la chaîne (m)	
Zone de contrat	Code de l'aide	CURRENT EQUIPMENT						NEW EQUIPMENT					Date of change
		Steel Buoy	Anchor Material	Anchor Mass (kg)	Counterweight Mass (kg)	Chain Size (mm)	Chain Length (m)	Plastic Buoy	Anchor Material	Anchor Mass (kg)	Chain Size (mm)	Chain Length (m)	
W-1	444.5	1.4m Buoy	Concrete	1000	272	28	13.7	GDI 1.5m Skirt	Concrete or Cast-Iron	1000	32	13.7	2016
W-1	445	1.4m Buoy	Concrete	1000	272	28	13.7	GDI 1.5m Skirt	Concrete or Cast-Iron	1000	32	13.7	2016
W-1	498	1.4m Buoy	Concrete	1000		28	54.9	Sealite Trident-1400	Concrete or Cast-Iron	1000	32	54.9	2014
W-1	444	1.4m Buoy	Concrete	1000	272	28	13.7	GDI 1.5m Skirt	Concrete or Cast-Iron	1000	32	13.7	2016
W-1	445.5	1.4m Buoy	Concrete	1000	272	28	18.3	GDI 1.5m Skirt	Concrete or Cast-Iron	1000	32	18.3	2016
W-1	390.5	1.4m Buoy	Concrete	1000	272	32	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2016
W-1	307.3	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2014
W-1	307.4	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2014
W-1	307.5	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2015
W-1	307.7	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2016
W-1	245	1.4m Buoy	Concrete	2000	272	28	18.3	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	18.3	2014
W-1	248	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2016
W-1	281	1.4m Buoy	Concrete	2000	272	28	18.3	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2016
W-1	265.5	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	27.4	2014
W-1	257.9	1.4m Buoy	Concrete	2000	272	28	54.9	Sealite Trident-1400	Concrete or Cast-Iron	2000	32	45.7	2014
W-1	202	1.4m Buoy	Concrete	2000	272	28	27.4	GDI 1.5m Skirt	Concrete or Cast-Iron	2000	32	18.3	2014
W-1	5005	1.2m Coastal Conical	Concrete	1000	181	32	27.4	GDI 1.5m Skirt	Cast-Iron	1000	32	27.4	2017

Histoire de pannes

Janvier 2009 - décembre 2013

Outage history

January 2009 - December 2013

Contract Area	List of Light No	Aid Id	Type of Aid		First NOTSHIP No	Reason	Date	Importance
Zone de contrat	No du Livre des Feux	Code de l'aide	Type d'aide		Premier no AVNAV	Raison	Date	Importance
W-1	123.300	Y11	1.4m Bouée	1.4m Bouée	P1288	Off Position / Hors Position	13/09/2009	2
W-1	138.000	Y44	1.4m Bouée	1.4m Bouée	P0791	Off Position / Hors Position	24/05/2010	2
W-1	5021.000	M35	0.3m Espar plate-Plastic (ORT)	0.3m Espar plate-plastique (ORT)	P1542	Off Position / Hors Position	28/10/2010	2
W-1	128.000	Y25	1.4m Bouée	1.4m Bouée	P1758	Extinguished / Éteinte	30/11/2010	2
W-1	5080.700	Y55	0.3m Espar plate-Plastic (ORT)	0.3m Espar plate-plastique (ORT)	P0167	Off Position / Hors Position	30/01/2011	2
W-1	5082.200	Y56	0.3m Espar plate-Plastic (ORT)	0.3m Espar plate-plastique (ORT)	P0399	Partially Submerged / Partiellement Submergée	11/03/2011	2
W-1	5080.650	Y53	0.3m Espar plate-Plastic (ORT)	0.3m Espar plate-plastique (ORT)	P0470	Off Position / Hors Position	27/03/2011	2
W-1	5080.800	Y57	0.3m Espar plate-Plastic (ORT)	0.3m Espar plate-plastique (ORT)	P0471	Off Position / Hors Position	27/03/2011	2
W-1	138.000	Y44	1.4m Bouée	1.4m Bouée	P1018	Extinguished / Éteinte	15/07/2011	2
W-1	5004.800	MB	0.6m Espar plate (longue)	0.6m Espar plate (longue)	P1780	Sunk / Coulé	06/12/2012	2
W-1	132.000	Y3	1.4m Bouée	1.4m Bouée	P1909	Extinguished / Éteinte	28/12/2012	2
W-1	5004.800	MB	0.6m Espar plate (longue)	0.6m Espar plate (longue)	P1054	Off Position / Hors Position	20/08/2013	2
W-1	5080.800	Y57	0.3m Espar plate-Plastic (ORT)	0.3m Espar plate-plastique (ORT)	P1292	Damaged / Endommagée	11/10/2013	2

APPENDIX C.1, WESTERN REGION

BUOY DATA

						Unlit										Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance	
W-1	202.000	VC	Whale Rock Bifurcation light buoy VC	BC	3419	Carmanah 704.5	1.4m Buoy	1811	Steel	Red-green-red	Year Round	6	48° 26' 35.2"	123° 26' 44.4"	Concrete	1816	27.4	32	2010.11.12	2014	2	
W-1	204.500	V21	Victoria Harbour Entrance light buoy V21	BC	3412	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	16	48° 24' 52.1"	123° 24' 11.7"	Concrete	1816	27.4	32	2010.11.12	2014	2	
W-1	245.000	U12	Piers Island light buoy U12	BC	3479	Carmanah 704.5	1.4m Buoy	1811	Steel	Red	Year Round	8	48° 42' 14.5"	123° 23' 58.6"	Concrete	1816	18.3	32	2010.11.05	2014	1	
W-1	248.000	U18	Colburne Passage light buoy U18	BC	3479	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	10	48° 41' 53.3"	123° 25' 18.8"	Concrete	1816	27.4	32	2012.10.28	2016	1	
W-1	257.900	UN	Deep Ridge Bifurcation light buoy UN	BC	3478	Carmanah 704.5	1.4m Buoy	1811	Steel	Green-red-green	Year Round	14	48° 47' 48.5"	123° 22' 10.9"	Concrete	1816	54.9	32	2010.11.08	2014	2	
W-1	265.500	UJ	Crispin Rock Bifurcation light buoy UJ	BC	3477	Carmanah 704.5	1.4m Buoy	1811	Steel	Red-green-red	Year Round	10	48° 48' 4"	123° 11' 47"	Concrete	1816	27.4	32	2010.11.08	2014	2	
W-1	281.000	U30	Hospital Rock light buoy U30	BC	3475	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	5	48° 55' 45.8"	123° 42' 46.9"	Concrete	1816	27.4	32	2012.10.28	2016	2	
W-1	444.000	P9	Millstone light buoy P9	BC	3447	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	5	49° 10' 23.9"	123° 56' 6.9"	Concrete	910	13.7	32	2012.10.27	2016	2	
W-1	444.500	P11	Millstone Creek light buoy P11	BC	3447	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	5	49° 10' 32.1"	123° 56' 14.4"	Concrete	910	13.7	32	2012.10.27	2016	2	
W-1	445.000	P12	Bate Point light buoy P12	BC	3447	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	6	49° 10' 32.3"	123° 56' 7"	Concrete	910	13.7	32	2012.10.27	2016	2	
W-1	5090.000	V8	Sooke Harbour Main Channel buoy #2 V8	BC	3411	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3	48° 22' 24.8"	123° 42' 45.7"	Concrete	454	9.1	20	2010.12.28	2014	3	
W-1	5091.000	V10	Sooke Harbour Middle Channel buoy #4 V10	BC	3411	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3	48° 22' 39.1"	123° 42' 38.6"	Concrete	454	9.1	20	2010.12.28	2014	3	
W-1	5103.000	V24	Halkett Island V24	BC	3412	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Year Round	2	48° 26' 18.3"	123° 22' 54.8"	Pinned to Rock plus concrete anchor	454	22.9 / 4.5	20	2011.05.04	2015	3	
W-1	5162.000	UV	Houstoun Passage UV	BC	3442	Unlit	0.6m Spar Can (Long)	510	Steel	Yellow-black	Year Round	16.80	48° 57' 44.4"	123° 36' 22.8"	Concrete	910	27.4	20	2011.11.22	2015	2	
W-1	5178.000	U36	Cluster Reef U36	BC	3475	Unlit	1.2m Coastal Conical		Steel	Red	Year Round	11.00	48° 59' 18.3"	123° 47' 20.3"	Concrete	910	18.3	20	2011.12.23	2015	2	
W-1	5185.000	U42	Centre Reef Conical U42	BC	3477	Unlit	1.2m Coastal Conical		Steel	Red	Year Round	10.10	48° 59' 11"	123° 38' 8"	Concrete	910	18.3	20	2011.12.23	2015	2	
W-1	5187.000	U40	Miami Rock U40	BC	3443	Unlit	1.2m Coastal Conical		Steel	Red	Year Round	30.00	49° 2' 28.1"	123° 42' 47.1"	Concrete	910	54.9	20	2011.12.23	2015	2	
W-1	5188.200	U38	Pirate's Cove U38	BC	3475	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Year Round	2.40	49° 5' 59.5"	123° 43' 53.6"	Concrete	454	9.1	20	2011.12.23	2015	2	
W-1	5201.000	PA	Carlos Island East Cardinal Buoy PA	BC	3475	Unlit	0.6m Spar Can (Long)	510	Steel	Black-yellow-black	Year Round	5.20	49° 9' 32.9"	123° 41' 57.4"	Concrete	454	13.7	20	2011.12.22	2015	2	
W-1	5282.600	PE	Entrance Island North Cardinal Buoy PE	BC	3458	Unlit	0.6m Spar Can (Long)	510	Steel	Black-yellow	Year Round	15.20	49° 12' 38.2"	123° 48' 52.8"	Concrete	910	27.4	20	2011.12.20	2015	2	
W-1	5283.000	P4	Gallows Point Spar Buoy P4	BC	3447	Unlit	0.6m Spar Conical (Long)	637	Steel	Red	Year Round	6.40	49° 10' 8.8"	123° 55' 4.4"	Concrete	910	18.3	20	2011.12.20	2015	2	
W-1	307.300	T4	Roberts Bank light buoy T4	BC	3492	Carmanah 704.5	1.4m Buoy	1811	Steel	Red	Year Round	16.80	49° 0' 41.4"	123° 8' 55.1"	Concrete	1816	27.4	32	2010.11.11	2014	2	
W-1	307.400	T6	Roberts Bank light buoy T6	BC	3492	Carmanah 704.5	1.4m Buoy	1811	Steel	Red	Year Round	11.90	49° 0' 52.8"	123° 8' 38.2"	Concrete	1816	27.4	32	2010.11.11	2014	2	
W-1	307.500	T8	Roberts Bank light buoy T8	BC	3492	Carmanah 704.5	1.4m Buoy	1811	Steel	Red	Year Round	12.50	49° 1' 12.7"	123° 8' 35"	Concrete	1816	27.4	32	2011.12.06	2015	2	
W-1	307.700	TB	Roberts Bank cautionary light buoy TB	BC	3492	Tideland ML 155	1.4m Buoy	1811	Steel	Yellow	Year Round	11.00	49° 1' 27.5"	123° 8' 37.5"	Concrete	1816	27.4	32	2012.02.07	2016	2	
W-1	390.500	QC	Ferguson Point West Cardinal light buoy QC	BC	3493	Sealite SLC 410	1.4m Buoy	1811	Steel	Yellow-black-yellow	Year Round	12.20	49° 18' 12.4"	123° 10' .7"	Concrete	910	27.4	32	2012.01.09	2016	2	
W-1	445.500	PW	Departure Bay West Cardinal light buoy PW	BC	3447	Sealite SLC 410	1.4m Buoy	1811	Steel	Yellow-black-yellow	Year Round	4.60	49° 11' 48.4"	123° 56' 55.8"	Concrete	910	18.3	32	2012.10.27	2016	2	
W-1	498.000	P42	Repulse Point light buoy P42	BC	3527	Carmanah 704.5	1.4m Buoy	1811	Steel	Red	Year Round	14.90	49° 28' 46.3"	124° 44' 55.4"	Concrete	910	54.9	32	2010.10.31	2014	2	
W-1	5207.200	P30	Northwest Bay Buoy South P30	BC	3459	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Year Round	5.80	49° 18' 2"	124° 12' 5.2"	Concrete	454	18.3	20	2011.10.18	2015	2	
W-1	5214.000	QT	Upwood Point South Cardinal Buoy QT	BC	3512	Unlit	0.6m Spar Can (Long)	510	Steel	Yellow-black	Year Round	19.80	49° 29' 20"	124° 7' 40"	Pinned to Rock plus concrete anchor	910	36.6	20	2011.10.17	2015	2	
W-1	5302.000	P47	Gartley Point Buoy P47	BC	3527	Unlit	1.2m Coastal Can	249	Steel	Green	Year Round	21.90	49° 38' 48.4"	124° 55' 2.4"	Concrete	1816	54.9	32	2011.10.15	2015	2	
W-1	5308.000	P52	Comox Bar East P52	BC	3527	Unlit	0.6m Spar Conical (Long)	637	Steel	Red	Year Round	7.30	49° 39' 20.5"	124° 51' 52.7"	Concrete	910	18.3	20	2011.10.13	2015	2	

APPENDIX C.1, WESTERN REGION

BUOY DATA

						Unit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-1	5326.000	Q29	Lund Spar Buoy Q29	BC	3538	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Green	Year Round	2.70	49° 58' 50.6"	124° 45' 45.3"	Concrete	454	9.1	20	2012.10.19	2016	2
W-1	123.300	Y11	Coomes Bank light buoy Y11	BC	3673	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	10.40	49° 13' 21.3"	126° 0' 30.2"	Concrete	1816	27.4	32	2013.10.19	2017	2
W-1	126.000	Y8	Meares Spit Light Buoy Y8	BC	3685	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	6.70	49° 10' 21.3"	125° 55' 57.2"	Concrete	910	27.4	32	2013.10.19	2017	2
W-1	128.000	Y25	Stubbs Spit light buoy Y25	BC	3685	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	9.10	49° 10' 6.3"	125° 54' 31.2"	Concrete	910	27.4	32	2013.10.18	2017	2
W-1	132.000	Y3	Felice Island light buoy Y3	BC	3685	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	7.00	49° 8' 45.3"	125° 55' 28.2"	Concrete	910	27.4	32	2013.10.18	2017	2
W-1	133.000	Y2	Templar Channel Light Buoy Y2	BC	3685	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	5.50	49° 8' 0"	125° 55' 36.2"	Concrete	1816	27.4	32	2013.10.18	2017	2
W-1	133.500	Y1	Tonquin Island light buoy Y1	BC	3685	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	7.30	49° 7' 36.3"	125° 55' 24.2"	Concrete	1816	27.4	32	2013.10.18	2017	2
W-1	137.300	Y45	Spring Cove Light Buoy Y45	BC	3646	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	5.20	48° 55' 38.3"	125° 31' 31.1"	Concrete	910	13.7	32	2013.11.01	2017	2
W-1	138.000	Y44	Sutton Rock light buoy Y44	BC	3646	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	10.10	48° 56' 25.3"	125° 32' 17.5"	Concrete	1816	18.3	32	2013.11.01	2017	2
W-1	5004.800	MB	Kultus Cove Spar Buoy MB	BC	3679	Unlit	0.6m Spar Can (Long)	510	Steel	Black-yellow	Year Round	12.20	50° 29' 9.9"	127° 37' 58.8"	Concrete	910	27.4	20	2013.08.24	2017	2
W-1	5005.000	M10	Leeson Rock Buoy M10	BC	3681	Unlit	1.2m Coastal Conical		Steel	Red	Year Round	7.30	50° 32' 1.5"	127° 37' 27.6"	Concrete	910	27.4	20	2013.07.26	2017	2
W-1	5021.000	M35	Kyuquot West Buoy #1 M35	BC	3677	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	3.00	50° 1' 29.3"	127° 21' 56.6"	Concrete	454	13.7	20	2013.07.13	2017	2
W-1	5029.000	M46	Nuchatlitz Outer Buoy M46	BC	3676	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3.00	49° 48' 47.4"	126° 58' 25.4"	Concrete	454	9.1	20	2013.07.21	2017	2
W-1	5030.000	M48	Nuchatlitz Inner Buoy M48	BC	3676	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	2.40	49° 48' 39.4"	126° 58' 10.4"	Concrete	454	9.1	20	2013.07.21	2017	2
W-1	5055.000	Y18	Deadman Pass Y18	BC	3685	Unlit	0.6m Spar Can (Short)	510	Steel	Red	Year Round	3.00	49° 9' 34.3"	125° 54' 34.2"	Concrete	910	13.7	20	2013.10.20	2017	2
W-1	5057.000	Y19	Deadman Pass Y19	BC	3685	Unlit	0.6m Spar Can (Short)	510	Steel	Green	Year Round	2.40	49° 9' 39.9"	125° 54' 35.2"	Concrete	910	9.1	20	2013.10.20	2017	2
W-1	5080.650	Y53	Somass River Y53	BC	3668	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	2.30	49° 14' 54"	124° 48' 55.3"	Concrete	454	9.1	20	2013.11.03	2017	2
W-1	5080.700	Y55	Somass River Y55	BC	3668	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	2.30	49° 14' 59.7"	124° 48' 48.5"	Concrete	454	9.1	20	2013.11.03	2017	2
W-1	5080.800	Y57	Somass River Y57	BC	3668	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	2.30	49° 15' 16.5"	124° 48' 45.6"	Concrete	454	9.1	20	2013.11.03	2017	2
W-1	5080.900	Y59	Somass River Y59	BC	3668	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	2.30	49° 15' 24.3"	124° 48' 51.5"	Concrete	454	9.1	20	2013.11.03	2017	2
W-1	5081.000	Y61	Somass River Y61	BC	3668	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	2.30	49° 15' 30.8"	124° 49' 5.1"	Concrete	454	9.1	20	2013.11.03	2017	2
W-1	5082.100	Y54	Bamfield Spar Buoy Y54	BC	3646	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Red	Year Round	5.20	48° 49' 43.3"	125° 8' 20"	Concrete	113.5	13.7	20	2013.11.02	2017	2
W-1	5082.200	Y56	Bamfield Inlet Buoy Y56	BC	3646	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Red	Year Round	3.00	48° 49' 19.3"	125° 8' 22.1"	Concrete	113.5	9.1	20	2013.11.02	2017	2

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>British Columbia North Coast</u>	
<u>Contract Area no.:</u>	<u>W-2</u>	
Province(s)/Territories:	British Columbia	
Contract Area Description:	The contract area includes the northern coast of B.C., from Cape Caution at the southern end of Queen Charlotte Strait and includes Haida Gwaii	
Coast Guard Depot:	Prince Rupert B.C.	
Commissioning date:	N/A	
Decommissioning date:	N/A	
Total no. of buoys:	15	
Maximum buoy size (dia. (m) / weight (kg)):	1.2m	444 kg
Maximum anchor size (weight (kg)):	1814 kg	
Maximum water depth (m) :	24m	
Overview of work activities:	<p>There are no seasonal buoys in this area. All of the buoys are unlit.</p> <p>The work includes planned cyclical mooring inspections and replacement over a 4 year cycle.</p> <p>There is a planned scheduled visit to these buoys <u>once every four years only</u> (for the mooring replacement program, which is completed on a four year cycle).</p> <p>The buoys are to be inspected and replaced as required when the buoy is visited on its four year cycle.</p> <p>If the buoy is to be reused then it is to be cleaned, with designators and reflective tape replaced as required.</p> <p>Buoy E70 has a non standard mooring arrangement and less than 1m of tide is required to replace the mooring which is secured to a rockbolt.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage history is included as a guide for typical outage levels; allow for an additional 50% in number for additional outages.</p>	
Comments:	Buoys in this area are to be positioned with DGPS	

Histoire de pannes

Janvier 2009 - décembre 2013

Outage history

January 2009 - December 2013

Contract Area	List of Light No	Aid Id	Type of Aid		First NOTSHIP No	Reason	Date	Importance
Zone de contrat	No du Livre des Feux	Code de l'aide	Type d'aide		Premier no AVNAV	Raison	Date	Importance
W-2	6048.100	ET2	0.8m SB 75 Conical Plastic	0.8m SB 75 Conique plastique	P1067	Off Position / Hors Position	22/08/2013	2
W-2	6048.100	ET2	0.8m SB 75 Conical Plastic	0.8m SB 75 Conique plastique	P0801	Off Position / Hors Position	25/06/2013	2
W-2	6048.100	ET2	0.8m SB 75 Conical Plastic	0.8m SB 75 Conique plastique	P-0656	Off Position / Hors Position	02/06/2013	2
W-2	6048.100	ET2	0.8m SB 75 Conical Plastic	0.8m SB 75 Conique plastique	P1275	Off Position / Hors Position	23/08/2012	2
W-2	6048.100	ET2	0.8m SB 75 Conical Plastic	0.8m SB 75 Conique plastique	P1185	Off Position / Hors Position	16/08/2010	2
W-2	6048.200	ET1	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0365	Off Position / Hors Position	27/03/2013	2
W-2	6048.200	ET1	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0079	Off Position / Hors Position	24/01/2013	2
W-2	6048.200	ET1	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1186	Off Position / Hors Position	16/08/2010	2
W-2	6048.200	ET1	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1087	Off Position / Hors Position	31/07/2009	2
W-2	6099.000	C8	1.2m Coastal Conical	1.2m Cotière Conique	P0873	Off Position / Hors Position	23/06/2009	2
W-2	6009.700	D83	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0884	Off Position / Hors Position	21/06/2011	2
W-2	6009.900	D81	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1434	Off Position / Hors Position	11/10/2010	2
W-2	6009.900	D81	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0903	Off Position / Hors Position	12/06/2010	2
W-2	6009.900	D81	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1230	Damaged / Endommagée	31/08/2009	2
W-2	6012.500	D65	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1747	Off Position / Hors Position	29/11/2012	2
W-2	6012.500	D65	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0751	Off Position / Hors Position	01/06/2012	2
W-2	6012.500	D65	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0411	Off Position / Hors Position	13/03/2010	2
W-2	6012.500	D65	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0975	Off Position / Hors Position	13/07/2009	2
W-2	6015.700	D73	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1530	Off Position / Hors Position	30/11/2013	2
W-2	6015.700	D73	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1780	Off Position / Hors Position	06/12/2011	2
W-2	6015.700	D73	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1314	Off Position / Hors Position	16/09/2010	2

Histoire de pannes

Janvier 2009 - décembre 2013

Outage history

January 2009 - December 2013

Contract Area	List of Light No	Aid Id	Type of Aid		First NOTSHIP No	Reason	Date	Importance
Zone de contrat	No du Livre des Feux	Code de l'aide	Type d'aide		Premier no AVNAV	Raison	Date	Importance
W-2	6015.700	D73	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1236	Off Position / Hors Position	29/08/2010	2
W-2	6015.700	D73	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1286	Off Position / Hors Position	13/09/2009	2
W-2	6013.000	DJ	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P1455	Showing Improper Character / Caractéristiques Inexactes	14/11/2013	2
W-2	6013.000	DJ	0.8m SB 75 plate Plastic	0.8m SB 75 plate plastique	P0778	Off Position / Hors Position	06/06/2012	2

APPENDIX C.1, WESTERN REGION

BUOY DATA

						Unlit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-2	6046.000	E95	Kitkatla Boat Harbour Buoy E95	BC	3986	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	3.70	53° 47' 50.1"	130° 26' 15.1"	Concrete	274	18.3	20	2012.07.29	2016	2
W-2	6048.100	ET2	Langley Passage #1 buoy ET2	BC	3795	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Year Round	6.10	53° 3' 30.2"	129° 36' 22.1"	Concrete	274	18.3	20	2013.08.31	2017	2
W-2	6048.200	ET1	Langley Passage #2 Buoy ET1	BC	3795	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	7.30	53° 3' 14.2"	129° 36' 46.1"	Concrete	274	18.3	20	2013.01.06	2017	2
W-2	6048.300	ET4	Langley Passage #3 Buoy ET4	BC	3795	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Year Round	14.60	53° 2' 57.2"	129° 37' 21.1"	Concrete	274	27.4	20	2011.04.30	2015	2
W-2	6048.400	ET6	Langley Passage #4 Buoy ET6	BC	3795	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Year Round	14.60	53° 3' 8.2"	129° 37' 57.1"	Concrete	274	27.4	20	2011.04.30	2015	2
W-2	6048.500	ET3	Langley Passage #5 Buoy ET3	BC	3795	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	8.20	53° 3' 32.2"	129° 38' 46.1"	Concrete	454	18.3	20	2011.04.30	2015	2
W-2	6050.000	E70	Meyers Passage Buoy E70	BC	3943	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	0.00	52° 36' 19.3"	128° 36' 51"	Rockbolt 1 1/2" steel rock pin - pinned to rock	0	9.1	20	2011.03.09	2015	2
W-2	6098.000	C3	New England Rocks Buoy C3	BC	3809	Unlit	1.2m Coastal Can	249	Steel	Green	Year Round	23.90	52° 20' 42"	131° 9' 36"	Concrete	1816	54.9	32	2013.11.15	2017	2
W-2	6007.000	D89	Dodd Passage Buoy D89	BC	3963	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	16.00	54° 33' 52"	130° 26' 57"	Concrete	274	27.4	20	2012.01.07	2016	2
W-2	6009.500	D85	Carr Island Buoy D85	BC	3955	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	7.30	54° 19' 39"	130° 28' 36.2"	Concrete	454	27.4	20	2012.01.09	2016	1
W-2	6009.700	D83	Metlakatla Bay Buoy D83	BC	3955	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	8.20	54° 19' 42"	130° 29' 12"	Concrete	454	27.4	20	2012.01.09	2016	2
W-2	6009.900	D81	Tugwell Bar Buoy D81	BC	3955	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	4.30	54° 20' 5"	130° 29' 12"	Concrete	454	13.7	20	2012.01.09	2016	2
W-2	6012.500	D65	Observation Point Buoy D65	BC	3955	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	4.00	54° 19' 54.5"	130° 27' 27.7"	Concrete	454	13.7	20	2012.01.09	2016	2
W-2	6013.000	DJ	Metlakatla Bifurcation Buoy DJ	BC	3955	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green-red-green	Year Round	5.50	54° 20' 1.5"	130° 26' 49.2"	Concrete	274	18.3	20	2012.01.09	2016	2
W-2	6015.700	D73	Du Vernet Point Buoy D73	BC	3955	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	4.30	54° 18' 51.3"	130° 24' 28.7"	Concrete	454	13.7	20	2012.01.05	2016	2

<u>Contract Area name:</u>	<u>Yukon Territory Southern Lakes</u>	
<u>Contract Area no.:</u>	<u>W-3</u>	
Province(s)/Territories:	Yukon Territory	
Contract Area Description:	The contract area includes Marsh Lake, Tagish River, Tagish Lake, Nares Lake and Bennett Lake	
Coast Guard Depot:	Prince Rupert B.C.	
Commissioning date:	May/June as ice conditions allow	
Decommissioning date:	October prior to ice formation	
Total no. of buoys:	34	
Maximum buoy size (dia. (m) / weight (kg)):	0.75m	34 kg
Maximum anchor size (weight (kg)):	N/A	
Maximum water depth (m) :	4m	
Overview of work activities:	<p>All of the buoys in this area are seasonal. They are commissioned at the beginning of the navigation season and decommissioned at the end of the season.</p> <p>Some of the buoys are anchored in place with a rockbolt. The mooring is left in place for the winter and the buoy is removed.</p> <p>Some of the buoys are anchored in place with a grapnel anchor. For these buoys the entire anchor, mooring and buoy are recovered after the navigation season.</p> <p>The buoys, moorings and anchors are to be inspected at the end of the navigation season and replaced next season if necessary.</p> <p>If the buoy is to be reused then it is to be cleaned, with designators and reflective tape replaced as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage levels unavailable; allow for at least 2 outages per season.</p> <p>The contract in this area will start in January 2015 after the current contract expires.</p>	
Comments:	<p>The contractor for this area must have local knowledge. GPS Positions are provided for the buoys, however some of the positions may vary year after year as river conditions change, etc.</p>	

						Unit										Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance	
W-3	6500.000	Y6	Low's Rock Y6	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	0.00	60° 16' 10.1"	134° 16' 6.7"	Rockbolt		4.5	1/4	N/A	N/A	2	
W-3	6501.000	Y8	Morris Rock Y8	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	0.00	60° 15' 59.6"	134° 16' 19.8"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6502.000	Y10	Sidney Rock Y10	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	0.00	60° 15' 47"	134° 16' 27.6"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6503.000	Y12	Currie's Rock Y12	YT	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal	0.00	60° 15' 11.6"	134° 16' 59.3"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6504.000	YA	Edgar's Rock YA	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red-green-red	Seasonal	0.00	60° 15' 14.6"	134° 17' 25.8"	Rockbolt		6.7	1/4	N/A	N/A	2	
W-3	6505.000	Y13	Tagish Anne Rock Y13	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	0.00	60° 15' 3.8"	134° 16' 50.5"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6506.000	YF	Reeder Rock YF	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red-green-red	Seasonal	0.00	60° 14' 34.1"	134° 17' 43.3"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6507.000	Y15	George Barrett Rock Buoy Y15	YT	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal	0.00	60° 14' 28"	134° 17' 11.1"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6508.000	Y17	Reid Rock Y17	YT	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal	0.00	60° 11' 43"	134° 17' 19.5"	Rockbolt		10.7	1/4	N/A	N/A	2	
W-3	6509.000	Y19	Dave's Reef Buoy Y19	YT	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal		60° 9' 30.6"	134° 20' 24.8"	Grapnel		9.1	1/4	N/A	N/A	1	
W-3	6511.000	Y22	Simmon's Reef Y22	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	0.00	60° 7' 20.3"	134° 32' 38.7"	grapnel		10.7	1/4	N/A	N/A	2	
W-3	6512.000	Y23	Richard's Reef Y23	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	0.00	60° 8' 44.5"	134° 37' 37.9"	Grapnel		4.6	1/4	N/A	N/A	2	
W-3	6512.100	Y24	Upper Richards Y24	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal		60° 8' 57.6"	134° 37' 47.4"	Grapnel		9.1	1/4	N/A	N/A	1	
W-3	6513.000	Y28	J.Nichols Y28	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	0.00	60° 9' 51.2"	134° 40' 3.6"	Grapnel		6.7	1/4	N/A	N/A	2	
W-3	6513.100	Y30	George Carmacks Y30	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal		60° 9' 57"	134° 40' 32.1"	Grapnel		6.7	1/4	N/A	N/A	1	
W-3	6514.000	Y26	J. Johns Y26	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	1.20	60° 9' 46.9"	134° 39' 53.3"	Grapnel		6.7	1/4	N/A	N/A	2	
W-3	6514.100	Y25	Skookum Jim Y25	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal		60° 9' 44.6"	134° 39' 58.4"	Grapnel		6.7	1/4	N/A	N/A	1	
W-3	6514.200	Y27	Willard Rock Y27	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal		60° 9' 48.2"	134° 40' 7.6"	Grapnel		6.7	1/4	N/A	N/A	1	
W-3	6514.500	Y20	Baker Rock Y20	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal		60° 7' 45.4"	134° 17' 19.6"	Grapnel		4.5	1/4	N/A	N/A	1	
W-3	6515.000	Y43	Wedge Rock Y43	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	0.30	60° 5' 11.2"	134° 56' 23.9"	Grapnel		4.5	1/4	N/A	N/A	2	
W-3	6516.000	Y1	Doehle's Reef Y1	YT	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal	4.30	60° 26' 58.8"	134° 16' 59.22"	Grapnel		9.1	1/4	N/A	N/A	2	
W-3	6516.100	YE	Martha Black Rock YE	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red-green-red	Seasonal		60° 14' 46.6"	134° 18' 31.5"	Grapnel		4.5	1/4	N/A	N/A	1	
W-3	6516.200	YD	Mystery Rock YD	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red-green-red	Seasonal		60° 14' 51.1"	134° 18' 32.3"	Grapnel		4.5	1/4	N/A	N/A	1	
W-3	6516.500	Y16	Boat Ramp Y16	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal		60° 14' 58.2"	134° 18' 37.5"	Grapnel		4.5	1/4	N/A	N/A	1	
W-3	6517.000	YC	Ramp Rock YC	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red-green-red	Seasonal	0.00	60° 14' 53"	134° 18' 26"	Rockbolt		4.5	1/4	N/A	N/A	2	
W-3	6518.000	Y2	J. Paterson Y2	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal	1.20	60° 19' 45.72"	134° 15' 52.32"	Grapnel		6.7	1/4	N/A	N/A	2	
W-3	6519.000	Y3	J. Tizya Y3	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	1.20	60° 19' 53.76"	134° 15' 24.06"	Grapnel		6.7	1/4	N/A	N/A	2	
W-3	6520.100	Y5	Tagish Charlie Y5	YT	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal		60° 19' 38.7"	134° 15' 50.4"	Grapnel		6.7	1/4	N/A	N/A	1	
W-3	6524.000	YB	Good Rock YB	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red-green-red	Seasonal (in place year round)	0.00	60° 14' 59.4"	134° 18' 21.6"	Rockbolt		4.5	1/4	N/A	N/A	2	
W-3	6525.000	Y29	Smith Rock Y29	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	0.90	60° 9' 55.2"	134° 40' 33.2"	Grapnel		6.7	1/4	N/A	N/A	2	
W-3	6526.000	Y31	Robert Watson Y31	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	2.40	60° 9' 54"	134° 40' 47.6"	Grapnel		6.7	1/4	N/A	N/A	2	
W-3	6526.100	Y32	Nares River Buoy #1 Y32	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal		60° 9' 56.6"	134° 40' 45.3"	grapnel		6.7	1/4	N/A	N/A	3	
W-3	6526.200	Y33	Nares River Buoy #2 Y33	YT	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal		60° 9' 59.3"	134° 41' 8.5"	Grapnel		6.7	1/4	N/A	N/A	3	
W-3	6526.300	Y34	Nares River Buoy #3 Y34	YT	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal		60° 10' 1.7"	134° 41' 8.6"	Grapnel		6.7	1/4	N/A	N/A	2	

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Stuart Lake, Tachie and Middle Rivers</u>		
<u>Contract Area no.:</u>	<u>W-4</u>		
Province(s)/Territories:	British Cokumbia		
Contract Area Description:	The contract area includes Stuart Lake, Tachie River, Trembleur Lake, Middle River and Takla Lake		
Coast Guard Depot:	Prince Rupert B.C.		
Commissioning date:	May/June as ice conditions allow		
Decommissioning date:	October prior to ice formation		
Total no. of buoys:	42		
Maximum buoy size (dia. (m) / weight (kg)):	0.75m	34 kg	
Maximum anchor size (weight (kg)):	45 kg		
Maximum water depth (m) :	5m		
Overview of work activities:	<p>All of the buoys in this area are seasonal. They are commissioned at the beginning of the navigations season and decommissioned at the end of the season.</p> <p>2 of the buoys are lit, the remainder are unlit.</p> <p>The buoys, moorings and anchors are to be inspected at the end of the navigation season and replaced for next season if necessary.</p> <p>If the buoy is to be reused then it is to be cleaned, with designators and reflective tape replaced as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage levels unavailable; allow for at least 2 outages per season.</p> <p>The contract in this area will start in January 2015 after the current contract expires.</p>		
Comments:	<p>The contractor for this area must have local knowledge. GPS Positions are provided for the buoys, however some of the positions may vary year after year as river conditions change.</p>		

APPENDIX C.1, WESTERN REGION

BUOY DATA

Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Unit	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Anchor		Mooring				Importance
						Lantern									Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	
W-4	819.000	T3	Beaver Island Reef light buoy T3	BC	3080	Carmanah 601	2ft 11in Tideland/NPL (WB-390)	18	Plastic	Green	Seasonal	1.80	54° 28' 13.712"	124° 29' 48.96"	Cast Iron	45	10.7	3/8	N/A	N/A	2
W-4	821.300	T1	Sowchea Bay light buoy T1	BC	3080	Carmanah 601	2ft 11in Tideland/NPL (WB-390)	18	Plastic	Green	Seasonal	1.50	54° 25' 59.322"	124° 23' 17.79"	Cast Iron	45	9.1	3/8	N/A	N/A	2
W-4	6800.000	T2	Stones Bay T2	BC	3080	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	4.60	54° 27' 50.58"	124° 18' 56.22"	Cast Iron	45	7.6	3/8	N/A	N/A	1
W-4	6800.100	T5	Beaver Island Reef T5	BC	3080	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal (in place year round)	4.50	54° 28' 19.68"	124° 30' 3.978"	Cast Iron	45	13.7	3/8	N/A	N/A	2
W-4	6800.200	T7	18 Mile Reef T7	BC	3080	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal (in place year round)	0.60	54° 35' 32.52"	124° 42' 33.3"	Cast Iron	45	11	3/8	N/A	N/A	2
W-4	6800.300	T8	Cul-Ch-Nu T8	BC	3080	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal (in place year round)	2.10	54° 35' 57.684"	124° 41' 54.942"	Cast Iron	45	11	3/8	N/A	N/A	2
W-4	6800.400	T10	Sunnyside Reef T10	BC	3080	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	2.10	54° 38' 4.794"	124° 43' 30.942"	Cast Iron	45	11	3/8	N/A	N/A	2
W-4	6801.300	T12	Tachie River Sandbar T12	BC	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal (in place year round)	0.60	54° 44' 53.9"	124° 50' 59.5"	Cast Iron Shackle	23	6.7	3/8	N/A	N/A	2
W-4	6801.400	T14	Tachie River Sandbar T14	BC	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal (in place year round)	0.60	54° 44' 59.6"	124° 51' 14.5"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6801.500	T15	Tachie River buoy T15	BC	NONE	Unlit	0.75m SB75 Can (SB75)		Plastic	Green	Seasonal (in place year round)		54° 49' 15.72"	124° 58' 2.52"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	1
W-4	6802.200	M4	Middle River Village M4	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	2.40	54° 52' 4.8"	125° 7' 23.6"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6802.300	M3	Middle River Village M3	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	2.40	54° 52' 3.4"	125° 7' 29"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6802.400	M2	Middle River Mouth M2	BC	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal (in place year round)		54° 51' 48.3"	125° 6' 42.3"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6802.500	M6	Middle River Village M6	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)		54° 52' 4.1"	125° 7' 29.9"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6803.100	M5	Six Mile Lake M5	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	0.60	54° 54' 39"	125° 13' 18.4"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6803.200	M7	Six Mile Lake M7	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	0.60	54° 54' 41.8"	125° 13' 27.2"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6803.300	M9	Six Mile Lake M9	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	0.60	54° 54' 46.7"	125° 13' 41.9"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6803.400	M10	Six Mile Lake M10	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)		54° 54' 47.2"	125° 13' 52.4"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6803.500	M12	Six Mile Lake M12	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)		54° 54' 48.2"	125° 13' 44.4"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6803.800	M14	BC Rail Camp M14	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)		54° 56' 13.4"	125° 16' 34.6"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	3
W-4	6803.900	M16	BC Rail Camp M16	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)		54° 56' 21.9"	125° 16' 36.9"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6804.100	M17	Sand Island M17	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	3.00	54° 57' 9.5"	125° 17' 21.2"	Cast Iron Shackle	23	9	3/8	N/A	N/A	2
W-4	6804.200	M19	Sand Island M19	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	3.00	54° 57' 12.3"	125° 17' 24"	Cast Iron Shackle	23	9	3/8	N/A	N/A	2

Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Unlit	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Anchor		Mooring				Importance
						Lantern									Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	
W-4	6804.400	M21	Sand Island M21	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)		54° 57' 17.2"	125° 17' 28"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6804.500	M22	Sand Island M22	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)		54° 57' 20.3"	125° 17' 31.1"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6805.000	M23	Rosetta Creek M23	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	1.20	54° 58' 8.6"	125° 20' 26.3"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6806.100	M25	Eagle Creek M25	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	1.80	55° 0' 9.8"	125° 23' 24.6"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6806.200	M27	Eagle Creek M27	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	1.80	55° 0' 17.8"	125° 23' 32.1"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6806.300	M28	Eagle Creek M28	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	1.80	55° 0' 18.8"	125° 23' 36.3"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6807.100	M29	Eagles Nest M29	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	2.40	55° 2' 15.8"	125° 27' 29.4"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6807.200	M31	Eagles Nest M31	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	1.80	55° 2' 23"	125° 27' 29.7"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6807.300	M32	Eagles Nest M32	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	1.20	55° 2' 27.66"	125° 27' 39.6"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6808.100	M34	Camp Canyon M34	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	3.00	55° 2' 58.02"	125° 29' 14.22"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6808.200	M36	Camp Canyon M36	BC	N/A	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	2.40	55° 2' 59.04"	125° 29' 33.24"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6808.300	M37	Camp Canyon M37	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)	2.40	55° 2' 58.14"	125° 29' 35.22"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4		M38	Middle River Head M38	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Red	Seasonal (in place year round)	1.20	55° 3' 34.2"	125° 30' 42.18"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4		M40	Middle River Head M40	BC	N/A	Unlit	0.4m SB 75 Can Plastic	11	Plastic	Red	Seasonal (in place year round)	1.00	55° 3' 33.42"	125° 30' 47.7"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6808.400	M39	Camp Canyon M39	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)		55° 3' 1.92"	125° 29' 53.58"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	2
W-4	6809.000	M42	Leo Creek M42	BC	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal (in place year round)	1.20	55° 4' 50.94"	125° 34' 43.62"	Cast Iron Shackle	23	9.1	3/8	N/A	N/A	2
W-4	6809.500	M33	Fore Far Creek M33	BC	N/A	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal (in place year round)		55° 2' 38.4"	125° 28' 10.3"	Cast Iron Shackle	23	4.5	3/8	N/A	N/A	1
W-4	6816.500	T10/2	North Arm Entrance Reef buoy T10/2	BC	3080	Unlit	0.4m SB 40 Conical Plastic	11	Plastic	Red	Seasonal (in place year round)	0.00	54° 38' 31"	124° 58' 48"	Cast Iron Shackle	45	4.5	3/8	N/A	N/A	1

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Babine Lake</u>	
<u>Contract Area no.:</u>	<u>W-5</u>	
Province(s)/Territories:	BC	
Contract Area Description:	Babine Lake	
Coast Guard Depot:	Prince Rupert B.C.	
Commissioning date:	May/June as ice conditions allow	
Decommissioning date:	October prior to ice formation	
Total no. of buoys:	5	
Maximum buoy size (dia. (m) / weight (kg)):	0.75m	34 kg
Maximum anchor size (weight (kg)):	113.5 kg	
Maximum water depth (m) :	9m	
Overview of work activities:	<p>All of the buoys in this area are seasonal. They are commissioned at the beginning of the navigations season and decommissioned at the end of the season.</p> <p>All of the buoys are unlit.</p> <p>The buoys, moorings and anchors are to be inspected at the end of the navigation season and replaced if necessary for next season.</p> <p>If the buoy is to be reused then it is to be cleaned, with designators and reflective tape replaced as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage levels unavailable; allow for at least 1 outage per season.</p>	
Comments:	<p>The contractor for this area must have local knowledge. GPS Positions are provided for the buoys, however the contractor needs to confirm that they are placing the buoys to adequately mark the hazards.</p>	

						Unlit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-5	6404.000	B1	Nine Mile Point Reef B1	BC	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal (in place year round)	5.50	55° 12' 20.22"	126° 34' 24.18"	Shackle	90.8	9.1	3/8	N/A	N/A	2
W-5	6405.000	B3	Smithers Landing B3	BC	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal (in place year round)	6.10	55° 3' 39.12"	126° 30' 56.76"	Shackle	113.5	9.1	3/8	N/A	N/A	2
W-5	6406.000	B4	Sandspit B4	BC	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Seasonal (in place year round)	8.50	54° 42' 51.6"	125° 58' 8.88"	Shackle	68.1	13.7	3/8	N/A	N/A	2
W-5	6406.500	B5	Scottys Rock B5	BC	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal (in place year round)	6.10	54° 48' 8.3"	125° 59' 51.5"	Shackle	113.5	12.2	3/8	N/A	N/A	1
W-5	6407.000	B13	Rock Reef B13	BC	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Seasonal (in place year round)	7.60	54° 43' 48.12"	125° 57' 2.7"	Shackle	113.5	9.1	3/8	N/A	N/A	1

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Quesnel Lake</u>		
<u>Contract Area no.:</u>	<u>W-6</u>		
Province(s)/Territories:	BC		
Contract Area Description:	Quesnel Lake		
Coast Guard Depot:	Prince Rupert B.C.		
Commissioning date:	May / June depending on Ice Conditions		
Decommissioning date:	October depending on Ice Conditions		
Total no. of buoys:	4		
Maximum buoy size (dia. (m) / weight (kg)):	0.75m	65 kg	
Maximum anchor size (weight (kg)):	113.5 kg		
Maximum water depth (m) :	6m		
Overview of work activities:	<p>All of the buoys in this area are seasonal. They are commissioned at the beginning of the navigation season and decommissioned at the end of the season.</p> <p>All of the buoys are unlit.</p> <p>The buoys, moorings and anchors are to be inspected at the end of the navigation season and replaced, if necessary, for the next season.</p> <p>If the buoy is to be reused then it is to be cleaned, with designators and reflective tape replaced as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage levels unavailable; allow for at least 1 outage per season.</p>		
Comments:	<p>The contractor for this area must have local knowledge. GPS Positions are provided for the buoys, however the contractor needs to confirm that they are placing the buoys to adequately mark the hazards.</p>		

						Unlit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-6	5579.000	K7	Red Rock buoy K7	BC	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	4.60	52° 31' 48.6"	121° 30' 37.2"	Concrete	227	3.1	5/8	N/A	N/A	2
W-6	5580.000	K8	Caribou Island Spit buoy K8	BC	N/A	Unlit	0.8m SB 75 Conical Plastic	34	Plastic	Red	Year Round	1.80	52° 30' 2"	121° 22' 57"	Serrated	90.8	9.1	3/4	N/A	N/A	2
W-6	5581.000	K9	Caribou Island North K9	BC	N/A	Unlit	0.8m SB 75 Can Plastic	34	Plastic	Green	Year Round	6.10	52° 29' 59.22"	121° 21' 52.2"	Concrete	113.5	9.1	5/8	N/A	N/A	2
W-6	5582.000	K10	Caribou Island South K10	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3.00	52° 29' 58.9002"	121° 21' 56.16"	Concrete	113.5	9.1	5/8	N/A	N/A	2

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Southern BC Interior Lakes</u>	
<u>Contract Area no.:</u>	<u>W-7</u>	
Province(s)/Territories:	British Columbia	
Contract Area Description:	Shuswap Lake, Mara Lake, Kootenay Lake, Arrow Lake, Okanogan Lake, Skaha Lake	
Coast Guard Depot:	Victoria B.C.	
Commissioning date:	N/A	
Decommissioning date:	N/A	
Total no. of buoys:	18	
Maximum buoy size (dia. (m) / weight (kg)):	1.4m	1811 kg
Maximum anchor size (weight (kg)):	1814 kg	
Maximum water depth (m) :	21m	
Overview of work activities:	<p>All of the buoys in this area are year round. 5 of the buoys are lit and the remainder are unlit.</p> <p>Prior to the beginning of recreational boating season (May) the position of all of the buoys is to be verified.</p> <p>Prior to the beginning of recreational boating season (May) the condition of the buoys, moorings and anchors are to be checked and replaced as required.</p> <p>Buoys are to be cleaned with new reflective tape and designators as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage history is included as a guide for typical outage levels; allow for at least 1 outage per season.</p>	
Comments:	<p>The contractor for this area must have local knowledge. GPS Positions are provided for the buoys, however the contractor needs to confirm that they are placing the buoys to adequately mark the hazards.</p>	

Histoire de pannes

Janvier 2009 - décembre 2013

Outage history

January 2009 - December 2013

Contract Area	List of Light No	Aid Id	Type of Aid		First NOTSHIP No	Reason	Date	Importance
Zone de contrat	No du Livre des Feux	Code de l'aide	Type d'aide		Premier no AVNAV	Raison	Date	Importance
W-7	40.700	A29	1.4m Bouée	1.4m Bouée	P0001	Extinguished / Éteinte	07/05/2009	2
W-7	43.500	E26	0.3m Espar-Conical Plastic (ORT)	0.3m Espar-Conique plastique (ORT)	P-0709	Extinguished / Éteinte	11/06/2013	2
W-7	43.500	E26	0.3m Espar-Conical Plastic (ORT)	0.3m Espar-Conique plastique (ORT)	P5502	Off Position & Extinguished / Éteinte et Hors Position	19/08/2009	2

						Unlit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-7	33.500	A18	Sand Island light buoy A18	BC	3057	Carmanah 704.5	1.4m Buoy	1811	Steel	Red	Year Round	18.60	50° 2' 2.4"	117° 54' 42"	Concrete	1816	27.4	1 1/8	N/A	N/A	2
W-7	39.000	A26	Nakusp light buoy A26	BC	3057	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	21.30	50° 14' 9.7"	117° 49' 29.8"	Concrete	1816	27.4	1 1/8	N/A	N/A	2
W-7	40.700	A29	Arrowhead light buoy A29	BC	3057	Carmanah 704.5	1.4m Buoy	1811	Steel	Green	Year Round	16.50	50° 40' 22.4"	117° 54' 31"	Concrete	1816	27.4	1 1/8	N/A	N/A	2
W-7	43.500	E26	Salmon Arm Approach light buoy E26	BC	3053	Carmanah 650	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	1.80	50° 43' 15.2"	119° 17' 43.3"	Concrete	454	9.1	5/8	N/A	N/A	2
W-7	57.600	E10	Mission Creek light buoy E10	BC	3052	Tideland L-120	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	6.70	49° 50' 35.9"	119° 29' 47.9"	Serrated	45	9.1	3/4	N/A	N/A	1
W-7	5511.000	K5	Balfour Spar Buoy K5	BC	3050	Unlit	0.6m Spar Can (Short)	510	Steel	Green	Year Round	6.40	49° 37' 35.8"	116° 56' 31.5"	Concrete	454	9.1	3/4	N/A	N/A	1
W-7	5512.000	K6	Boswell Spar Buoy K6	BC	3050	Unlit	0.6m Spar Conical (Short)	510	Steel	Red	Year Round	2.40	49° 30' 3.356"	116° 47' 13.34"	Concrete	454	9.1	3/4	N/A	N/A	2
W-7	5560.000	E4	Skaha Lake South Buoy E4	BC	3052	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	4.60	49° 21' 11.46"	119° 34' 22.5"	Concrete	113.5	6.1	5/8	N/A	N/A	2
W-7	5561.000	E6	Skaha Lake North Spar Buoy E6	BC	3052	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	4.00	49° 21' 14.46"	119° 34' 21.42"	Concrete	113.5	6.1	5/8	N/A	N/A	2
W-7	5566.000	E14	Cameron Point South E14	BC	3052	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3.90	50° 11' 20.64"	119° 26' 8.82"	Concrete	113.5	6.1	5/8	N/A	N/A	2
W-7	5567.000	E16	Cameron Point Center Spar Buoy E16	BC	3052	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	5.80	50° 11' 22.26"	119° 26' 7.2"	Concrete	113.5	6.1	5/8	N/A	N/A	2
W-7	5568.000	E18	Cameron Point North Spar Buoy E18	BC	3052	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3.90	50° 11' 31.02"	119° 25' 56.4"	Concrete	113.5	6.1	5/8	N/A	N/A	2
W-7	5569.000	E12	Mission Creek buoy E12	BC	3052	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	12.00	49° 50' 31.5"	119° 29' 46.8"	Serrated	45	18.2	3/4	N/A	N/A	1
W-7	5681.000	E33	Little Shuswap buoy E33	BC	3053	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	1.80	50° 49' 44.76"	119° 41' 46.68"	Grapnel	36	9.1	5/8	N/A	N/A	2
W-7	5681.500	E34	Little Shuswap buoy E34	BC	3053	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	4.00	50° 49' 45.2"	119° 41' 38.3"	Grapnel	36	9.1	3/4	N/A	N/A	2
W-7	5682.000	E35	Little Shuswap buoy E35	BC	3053	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	1.80	50° 49' 53.64"	119° 41' 30.96"	Grapnel	36	9.1	5/8	N/A	N/A	2
W-7	5683.000	E37	Little Shuswap River Buoy E37	BC	3053	Unlit	0.75m SB 105 Can	52	Plastic	Green	Year Round	1.80	50° 51' 52"	119° 36' 16"	Concrete	137	5	3/4	N/A	N/A	2
W-7	5694.000	E22	Mara Lake Spar Buoy E22	BC	3053	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3.40	50° 48' 54.1"	118° 59' 15.55"	Concrete	113.5	9.1	5/8	N/A	N/A	2

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Pitt Lake</u>	
<u>Contract Area no.:</u>	<u>W-8</u>	
Province(s)/Territories:	British Columbia	
Contract Area Description:	Pitt Lake	
Coast Guard Depot:	Victoria B.C.	
Commissioning date:	N/A	
Decommissioning date:	N/A	
Total no. of buoys:	12	
Maximum buoy size (dia. (m) / weight (kg)):	1.4m	1811 kg
Maximum anchor size (weight (kg)):	910 kg	
Maximum water depth (m) :	13m	
Overview of work activities:	<p>All of the buoys in this area are year round. 6 of the buoys are lit and the remainder are unlit.</p> <p>The buoys are lifted annually after the Freshet has subsided to avoid having the anchors silt in too heavily.</p> <p>During the annual lift, the condition of the Buoy, mooring, anchor and light are to be checked and replaced as necessary.</p> <p>Buoys are to be cleaned with new reflective tape and designators as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage history is included as a guide for typical outage levels; allow for an additional 50% in number for additional outages.</p>	
Comments:	Buoys in this area are to be positioned with DGPS.	

Histoire de pannes

Janvier 2009 - décembre 2013

Outage history

January 2009 - December 2013

Contract Area	List of Light No	Aid Id	Type of Aid		First NOTSHIP No	Reason	Date	Importance
Zone de contrat	No du Livre des Feux	Code de l'aide	Type d'aide		Premier no AVNAV	Raison	Date	Importance
W-8	5501.000	L3	1.2m Coastal plate	1.2m Cotière plate	P0781	Off Position / Hors Position	07/06/2009	2
W-8	373.400	L23	1.4m Bouée	1.4m Bouée	P1766	Extinguished / Éteinte	26/11/2009	2
W-8	373.100	L15	1.4m Bouée	1.4m Bouée	P0216	Extinguished / Éteinte	01/02/2010	2
W-8	373.400	L23	1.4m Bouée	1.4m Bouée	P0896	Off Position / Hors Position	10/06/2010	2
W-8	5510.300	L22	1.2m Coastal Conical	1.2m Cotière Conique	P0897	Off Position / Hors Position	10/06/2010	1
W-8	373.200	L20	1.4m Bouée	1.4m Bouée	P1826	Off Position / Hors Position	16/12/2010	2
W-8	373.400	L23	1.4m Bouée	1.4m Bouée	P1843	Off Position / Hors Position	21/12/2010	2
W-8	373.200	L20	1.4m Bouée	1.4m Bouée	P1272	Off Position / Hors Position	29/08/2011	2
W-8	373.200	L20	1.4m Bouée	1.4m Bouée	P0014	Extinguished / Éteinte	05/01/2012	2
W-8	372.500	L11	1.4m Bouée	1.4m Bouée	P1468	Off Position / Hors Position	03/10/2012	2

Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Unlit	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Anchor		Mooring				Importance
						Lantern									Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	
W-8	372.500	L11	Pitt Lake light buoy L11	BC	3062	Carmanah 702.5	1.4m Buoy	1811	Steel	Green	Year Round	13.30	49° 21' 17.4"	122° 34' 50.5"	Concrete	910	18.3	1 1/8	N/A	N/A	2
W-8	373.100	L15	Pitt Lake light buoy L15	BC	3062	Carmanah 704.5	1.4m Buoy	1811	Steel	Green	Year Round	9.50	49° 22' 14.7"	122° 34' 30.8"	Concrete	910	18.3	1 1/8	N/A	N/A	2
W-8	373.200	L20	Pitt Lake light buoy L20	BC	3062	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	6.10	49° 22' 57"	122° 33' 47"	Concrete	910	18.3	1 1/8	N/A	N/A	2
W-8	373.250	L21	Pitt Lake Buoy L21	BC	3062	Tideland SOLA LED 140	1.4m Buoy	1811	Steel	Green	Year Round	6.40	49° 23' 33.6"	122° 33' 43.1"	Concrete	910	13.7	1 1/8	N/A	N/A	1
W-8	373.300	L24	Pitt Lake North lighted buoy L24	BC	3062	Carmanah 702.5	1.4m Buoy	1811	Steel	Red	Year Round	4.50	49° 24' 11.4"	122° 33' 13.9"	Concrete	910	13.7	1 1/8	N/A	N/A	1
W-8	373.400	L23	Pitt Lake light buoy L23	BC	3062	Tideland SOLA LED 140	1.4m Buoy	1811	Steel	Green	Year Round	7.60	49° 23' 58.8"	122° 33' 28.9"	Concrete	910	13.7	1 1/8	N/A	N/A	2
W-8	5501.000	L3	Pitt Lake Buoy #1 L3	BC	3062	Unlit	1.2m Coastal Can	249	Steel	Green	Year Round	6.10	49° 21' 12"	122° 36' 9"	Concrete	910	13.7	1 1/8	N/A	N/A	2
W-8	5502.000	L7	Pitt Lake Buoy #2 L7	BC	3062	Unlit	1.2m Coastal Can	249	Steel	Green	Year Round	8.20	49° 21' 14"	122° 35' 42"	Concrete	910	13.7	1 1/8	N/A	N/A	2
W-8	5505.000	L13	Pitt Lake Buoy #5 L13	BC	3062	Unlit	1.2m Coastal Can	249	Steel	Green	Year Round	9.20	49° 21' 33.2"	122° 34' 42"	Concrete	910	13.7	1 1/8	N/A	N/A	2
W-8	5508.000	L16	Pitt Lake Buoy #8 L16	BC	3062	Unlit	1.2m Coastal Conical		Steel	Red	Year Round	9.90	49° 22' 16"	122° 34' 10"	Concrete	910	18.3	1 1/8	N/A	N/A	2
W-8	5509.000	L19	Pitt Lake Buoy #9 L19	BC	3062	Unlit	1.2m Coastal Can	249	Steel	Green	Year Round	8.00	49° 23' 0"	122° 33' 59"	Concrete	910	13.7	1 1/8	N/A	N/A	2
W-8	5510.300	L22	Pitt Lake Buoy #10 L22	BC	3062	Unlit	1.2m Coastal Conical		Steel	Red	Year Round	4.50	49° 23' 33"	122° 33' 32.5"	Concrete	910	13.7	1 1/8	N/A	N/A	1

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Southern Vancouver Island Lakes</u>		
<u>Contract Area no.:</u>	<u>W-9</u>		
Province(s)/Territories:	BC		
Contract Area Description:	Shawnigan Lake, Sproat Lake, Cowichan Lake		
Coast Guard Depot:	Victoria B.C.		
Commissioning date:	N/A		
Decommissioning date:	N/A		
Total no. of buoys:	13		
Maximum buoy size (dia. (m) / weight (kg)):	0.9m	65 kg	
Maximum anchor size (weight (kg)):	113.5 kg		
Maximum water depth (m) :	13m		
Overview of work activities:	<p>All of the buoys in this area are year round. All of the buoys are unlit.</p> <p>Many of the buoys are secured both with an anchor and pinned to the hazard they are marking.</p> <p>The condition / position of the buoys is to be checked anually.</p> <p>The condition of the anchors, moorings and rockbolts are to be checked quadrenially and replaced as necessary.</p> <p>A Worksafe BC certified dive crew is necessary for some of the work.</p> <p>Buoys are to be cleaned with new reflective tape and designators as required.</p> <p>Unscheduled work includes response to discrepancies for all buoys.</p> <p>Historical outage levels unavailable; allow for at least 1 outage per season.</p>		
Comments:	<p>Local Knowledge is required to position buoys in this area. GPS positions are provided, however the contractor must ensure that the buoys are adequately marking the hazard.</p>		

APPENDIX C.1, WESTERN REGION
BUOY DATA

						Unlit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-9	5705.000		Goat Island Spar Buoy	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Green	Year Round	2.70	48° 49' 53.2"	124° 9' 43.1"	Pinned to rock plus Grapnel	45	7.6 / 9.1	3/4	N/A	N/A	3
W-9	5708.000		Gordon Bay Spar Buoy	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round	3.70	48° 50' 18"	124° 11' 21"	Pinned to Rock plus concrete anchor	113.5	7.6 / 9.1	3/4	N/A	N/A	3
W-9	5711.000		Misery Creek Spar Buoy	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Green	Year Round	6.70	48° 51' 50"	124° 15' 2"	Pinned to rock plus Grapnel	36	15.2 / 9.1	3/4	N/A	N/A	3
W-9	5719.000		Deadmans Island Spar Buoy	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Green	Year Round	3.00	48° 54' 29.8"	124° 24' 53.52"	Pinned to rock plus Grapnel	36	13.7 / 22.9	3/4	N/A	N/A	3
W-9	5731.000		Shawnigan Lake Buoy #1	BC	N/A	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round		48° 36' 38.52"	123° 38' 26.4"	Pinned to Rock plus concrete anchor	113.5	13.7 / 9.1	1/2	N/A	N/A	3
W-9	5732.000		Shawnigan Lake Buoy #2	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Year Round		48° 37' 33.48"	123° 38' 12.24"	Pinned to Rock plus concrete anchor	113.5	13.7 / 9.1	3/4	N/A	N/A	3
W-9	5733.000		Shawnigan Lake Spar Buoy #3	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Green	Year Round	4.60	48° 37' 1.38"	123° 38' 1.2"	Concrete	113.5	4.6	3/4	N/A	N/A	3
W-9	5743.000		Shawnigan Lake Cautionary Buoy #14	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Yellow	Year Round	0.60	48° 36' 48.9"	123° 38' 13.62"	Secured to Beacon plus concrete anchor	113.5	27.4 / 6.1	3/4	N/A	N/A	3
W-9	5744.000		Shawnigan Lake Cautionary Buoy #13	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Yellow	Year Round	0.60	48° 36' 49.02"	123° 38' 15.54"	Secured to Beacon plus concrete anchor	113.5	27.4 / 9.1	3/4	N/A	N/A	3
W-9	5801.000		Sproat Lake Narrows North Buoy	BC	92F7	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Green	Year Round	5.50	49° 15' 3.2"	124° 57' 30.1"	Grapnel	45	9.1	3/4	N/A	N/A	3
W-9	5802.000		Sproat Lake Narrows South Buoy	BC	N/A	Unlit	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red-green-red	Year Round	7.60	49° 15' 50.4"	124° 57' 44"	Pinned to rock plus Grapnel	100	18.3 / 9.1	3/4	N/A	N/A	3
W-9	5803.000		Two Rivers Arm Cautionary	BC	N/A	Unlit	2ft 11in Tideland/NPL (WB-390)	18	Plastic	Yellow	Year Round	1.50	49° 14' 22.9"	125° 0' 8.8"	Concrete	113.5	9.1	3/4	N/A	N/A	3
W-9	5809.000		Taylor Arm Buoy	BC	92F6	Unlit	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Year Round	9.10	49° 16' 22.7"	125° 7' 32.1"	Pinned to Rock plus concrete anchor	113.5	12.2 / 13.7	3/4	N/A	N/A	3

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

<u>Contract Area name:</u>	<u>Lake Winnipegosis, MB</u>	
<u>Contract Area no.:</u>	<u>W-10</u>	
Province(s)/Territories:	Manitoba	
Contract Area Description:	The contract area includes all of Lake Winnipegosis, Manitoba.	
Material transportation & Storage:	Material storage by: CCG	Material transportation by: CCG
Coast Guard Depot:	Selkirk MB	
Commissioning date:	no later than June 1st	
Decommissioning date:	no earlier than October 15th	
Total no. of buoys:	65	
Maximum buoy size (dia. (m) / weight (kg)):	0.4m	65 kg
Maximum anchor size (weight (kg)):	68 kg	
Maximum water depth (m) :	7m	
Overview of work activities:	<p>All buoys are seasonal - complete buoy assembly including mooring is placed each spring (Commissioning) and lifted (Decommissioning) each fall. 12 buoys have lights, the remainder are unlit.</p> <p>Unscheduled work includes response to discrepancies.</p> <p><i>Season start and end dates may vary as a result of ice conditions.</i></p> <p>Note that historical outage history (attached) is not typical and is based on the fact that no contracts were in place during the years indicated.</p> <p>Allow for at least 4 outages per season.</p> <p>The contract in this area will start in January 2015 after the current contract expires.</p>	
Comments:	<p>The contractor must have local knowledge to position the buoys in this contract area. GPS Positions provided are obtained from the charts of the area, however some of the charts are drawn on an unknown datum and GPS positions may be up to 1/2 mile in error.</p>	

Histoire de pannesJanvier 2009 - décembre 2013Outage historyJanuary 2009 - December 2013

Contract Area	List of Light No	Aid Id	Type of Aid		First NOTSHIP No	Reason	Date	Importance
Zone de contrat	No du Livre des Feux	Code de l'aide	Type d'aide		Premier no AVNAV	Raison	Date	Importance
W-10	All/tous	All/tous	All/tous	All/tous	C702	Not Reliable	19/05/2010	2
W-10	All/tous	All/tous	All/tous	All/tous	C1332	Not Reliable	30/06/2011	2

						Unit										Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance	
W-10	1625.500	K4	Weasel Island Reef light buoy K4	MB	6271	Carmanah 601	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	3.00	51° 40' 40"	99° 42' 41"	DOR-MOR	62	3.7	1/2	N/A	N/A	2	
W-10	1626.000	KD3	Mapes Reef light buoy KD3	MB	6271	Carmanah 601	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Seasonal	4.00	51° 40' 31"	99° 52' 43"	DOR-MOR	62	6.1	1/2	N/A	N/A	2	
W-10	1635.500	KA2	Five Mile Reef light buoy KA2	MB	6272	Carmanah 601	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	3.00	52° 7' 30"	100° 4' 0"	DOR-MOR	62	3.7	1/2	N/A	N/A	2	
W-10	1635.800	KC2	Barrel Reef light buoy KC2	MB	6272	Carmanah 601	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	7.00	52° 13' 18"	100° 4' 40"	DOR-MOR	62	12.2	1/2	N/A	N/A	2	
W-10	1635.920	KE2	Wade Point Reef light buoy KE2	MB	6272	Carmanah 650	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	3.70	52° 14' 55.8"	99° 54' 24.9"	DOR-MOR	62	6.1	1/2	N/A	N/A	1	
W-10	1636.000	K11	Half Moon Island light buoy K11	MB	6272	Carmanah 601	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Seasonal	3.00	52° 23' 10"	100° 1' 49"	DOR-MOR	62	3.7	1/2	N/A	N/A	2	
W-10	1637.000	K21	Papoose Channel light buoy K21	MB	6272	Carmanah 601	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Seasonal		52° 24' 14"	100° 1' 6"	DOR-MOR	62	3	1/2	N/A	N/A	2	
W-10	1637.500	K24	Papoose Channel light buoy K24	MB	6272	Carmanah 601	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	3.00	52° 24' 43"	100° 1' 16"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	1638.300	K29	Papoose Channel light buoy K29	MB	6272	Carmanah 601	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Seasonal	3.00	52° 26' 12"	100° 0' 42"	DOR-MOR	62	4.6	1/2	N/A	N/A	2	
W-10	1639.500	K35	Papoose Channel light buoy K35	MB	6272	Carmanah 601	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Seasonal	2.00	52° 27' 31"	99° 59' 48"	DOR-MOR	62	3	1/2	N/A	N/A	2	
W-10	1639.900	K43	Papoose Channel light buoy K43	MB	6272	Carmanah 601	0.3m Spar Can-Plastic (ORT)	65	Plastic	Green	Seasonal	3.00	52° 29' 22.9"	99° 58' 34"	Serrated	45	4.6	1/2	N/A	N/A	2	
W-10	9844.000	J7	DEVILS GAP J7	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.10	52° 46' 20"	100° 3' 0"	DOR-MOR	32	4.3	1/2	N/A	N/A	2	
W-10	9845.000	J9	DEVILS GAP J9	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	1.00	52° 46' 30"	100° 3' 3"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9846.000	J11	DEVILS GAP J11	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	1.00	52° 46' 39"	100° 3' 6"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9847.000	J13	DEVILS GAP J13	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	52° 46' 48"	100° 3' 7"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9848.000	J15	DEVILS GAP J15	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.30	52° 47' 0"	100° 3' 9"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9849.000	J17	DEVILS GAP J17	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.60	52° 47' 14"	100° 3' 11"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9850.000	J19	DEVILS GAP J19	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	52° 47' 24"	100° 3' 12"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9851.000	J21	DEVILS GAP J21	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	52° 47' 36"	100° 3' 15"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9852.000	J23	DEVILS GAP J23	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	52° 47' 48"	100° 3' 16"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9853.000	J25	DEVILS GAP J25	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.30	52° 47' 58"	100° 3' 18"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9854.000	J27	DEVILS GAP J27	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	52° 48' 9"	100° 3' 38"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9855.000	J29	DEVILS GAP J29	MB	6273	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.60	52° 48' 17"	100° 4' 3"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9856.000	J35	SPRUCE ISLAND CHANNEL J35	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	3.60	53° 0' 47"	100° 30' 44"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9857.000	J37	SPRUCE ISLAND CHANNEL J37	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	53° 0' 40"	100° 31' 45"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9858.000	J39	SPRUCE ISLAND CHANNEL J39	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	1.60	53° 0' 28"	100° 33' 21"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9859.000	J41	SPRUCE ISLAND CHANNEL J41	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	1.60	53° 0' 54.5"	100° 33' 19"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9860.000	J43	SPRUCE ISLAND CHANNEL J43	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	3.00	53° 0' 40"	100° 34' 15"	DOR-MOR	32	4.6	1/2	N/A	N/A	2	
W-10	9861.000	J45	SPRUCE ISLAND CHANNEL J45	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	3.00	53° 0' 35"	100° 34' 41"	DOR-MOR	32	3.7	1/2	N/A	N/A	2	
W-10	9862.000	J47	SPRUCE ISLAND CHANNEL J47	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	3.00	53° 0' 28"	100° 35' 11"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9863.000	J49	SPRUCE ISLAND CHANNEL J49	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.60	53° 0' 21"	100° 35' 42"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9864.000	J51	SPRUCE ISLAND CHANNEL J51	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.60	53° 0' 9"	100° 36' 21"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9864.002	J52	J52	MB	6274	Unlit	0.25m SB 23 spar conical plastic	43	Plastic	Red	Seasonal		53° 0' 17"	100° 36' 21"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9865.000	J53	SPRUCE ISLAND CHANNEL J53	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	3.00	53° 0' 32"	100° 37' 0"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9866.000	J55	SPRUCE ISLAND J55	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.30	53° 0' 54"	100° 37' 42"	DOR-MOR	32	3.7	1/2	N/A	N/A	2	

APPENDIX C.1, WESTERN REGION

BUOY DATA

						Unlit										Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance	
W-10	9867.000	JA5	CORMORANT CHANNEL JA5	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 50' 23"	99° 57' 57"	DOR-MOR	32	6.1	1/2	N/A	N/A	2	
W-10	9868.000	JA7	CORMORANT CHANNEL JA7	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	1.00	52° 50' 36"	99° 57' 57"	DOR-MOR	32	6.1	1/2	N/A	N/A	2	
W-10	9869.000	JA9	CORMORANT CHANNEL JA9	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	1.00	52° 50' 45"	99° 58' 0"	DOR-MOR	32	6.1	1/2	N/A	N/A	2	
W-10		JA10	CORMORANT CHANNEL JA9	MB	6273	Carmanah 650	0.3m Spar-Conical Plastic (ORT)	65	Plastic	Red	Seasonal	2.00	52° 51' 24"	99° 57' 52"	DOR-MOR	32	6.1	1/2	N/A	N/A	2	
W-10	9870.000	JA11	CORMORANT CHANNEL JA11	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.00	52° 51' 6"	99° 58' 2"	DOR-MOR	32	5.5	1/2	N/A	N/A	2	
W-10	9871.000	JA13	CORMORANT CHANNEL JA13	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	1.00	52° 51' 20"	99° 58' 5"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9872.000	JA15	CORMORANT CHANNEL JA15	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.00	52° 51' 36"	99° 58' 6"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9873.000	JA17	CORMORANT CHANNEL JA17	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 51' 44"	99° 58' 9"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9874.000	JA19	CORMORANT CHANNEL JA19	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	4.00	52° 51' 54"	99° 58' 11"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9875.000	JA21	CORMORANT CHANNEL JA21	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	4.00	52° 52' 3"	99° 58' 11"	DOR-MOR	32	3.7	1/2	N/A	N/A	2	
W-10	9876.000	JA23	CORMORANT CHANNEL JA23	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	4.00	52° 52' 14"	99° 58' 12"	DOR-MOR	32	5.5	1/2	N/A	N/A	2	
W-10	9877.000	JA25	CORMORANT CHANNEL JA25	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 52' 27"	99° 58' 14"	DOR-MOR	32	6.1	1/2	N/A	N/A	2	
W-10	9878.000	JC1	CORMORANT (BLIND) REEF JC1	MB	6273	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 48' 18"	99° 55' 18"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9879.000	JD3	DAWSON BAY (WHITEFISH PT HBR) JD3	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	1.60	52° 58' 20"	100° 58' 2"	DOR-MOR	62	3	1/2	N/A	N/A	2	
W-10	9880.000	JD4	DAWSON BAY (WHITEFISH PT HBR) JD4	MB	6274	Unlit	0.25m SB 23 spar conical plastic		Plastic	Red	Seasonal	1.60	52° 58' 21"	100° 57' 56"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9881.000	JD5	DAWSON BAY (WHITEFISH PT HBR) JD5	MB	6274	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.00	52° 58' 21"	100° 58' 2"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9882.000	JD6	DAWSON BAY (WHITEFISH PT HBR) JD6	MB	6274	Unlit	0.25m SB 23 spar conical plastic		Plastic	Red	Seasonal	2.00	52° 58' 22"	100° 57' 56"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9883.000	K13	PAPOOSE CHANNEL K13	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 23' 27"	100° 1' 30"	DOR-MOR	32	5.5	1/2	N/A	N/A	2	
W-10	9884.000	K15	PAPOOSE CHANNEL K15	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 23' 45"	100° 1' 21"	DOR-MOR	32	5.5	1/2	N/A	N/A	2	
W-10	9885.000	K17	PAPOOSE CHANNEL K17	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.30	52° 23' 57"	100° 1' 12"	DOR-MOR	32	4.6	1/2	N/A	N/A	2	
W-10	9886.000	K23	PAPOOSE CHANNEL K23	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 24' 30"	100° 1' 18"	DOR-MOR	32	5.5	1/2	N/A	N/A	2	
W-10	9887.000	K25	PAPOOSE CHANNEL K25	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.00	52° 25' 9"	100° 1' 6"	DOR-MOR	32	5.5	1/2	N/A	N/A	2	
W-10	9888.000	K27	PAPOOSE CHANNEL K27	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.00	52° 25' 42"	100° 1' 2"	DOR-MOR	32	3.7	1/2	N/A	N/A	2	
W-10	9890.000	K31	PAPOOSE CHANNEL K31	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.00	52° 26' 38"	100° 0' 26"	DOR-MOR	32	3.7	1/2	N/A	N/A	2	
W-10	9891.000	K33	PAPOOSE CHANNEL K33	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	2.00	52° 27' 6"	100° 0' 6"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9893.000	K37	PAPOOSE CHANNEL K37	MB	6272	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.00	52° 28' 0"	99° 59' 29"	DOR-MOR	32	4.6	1/2	N/A	N/A	2	
W-10	9894.000	K39	PAPOOSE CHANNEL K39	MB	6272	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	3.00	52° 28' 28"	99° 59' 12"	Serrated	45	5.5	1/2	N/A	N/A	2	
W-10	9895.000	K41	PAPOOSE CHANNEL K41	MB	6272	Unlit	0.25m SB 23 spar can plastic	43	Plastic	Green	Seasonal	2.40	52° 28' 57"	99° 58' 54"	Serrated	45	5.5	1/2	N/A	N/A	2	
W-10	9901.000	KD5	MOSSEY RIVER KD5	MB	6271	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.30	51° 39' 44"	99° 54' 12"	DOR-MOR	32	3	1/2	N/A	N/A	2	
W-10	9902.000	KD7	MOSSEY RIVER KD7	MB	6271	Unlit	0.4m SB 40 Can Plastic	11	Plastic	Green	Seasonal	3.30	51° 39' 27"	99° 54' 22"	DOR-MOR	68.1	3	1/2	N/A	N/A	2	

APPENDIX C.1: Western Region, LIST OF BUOYS BY CONTRACT AREA

Contract Area Overview.

Contract Area name:	Moose Lake, MB	
Contract Area no.:	W-11	
Province(s)/Territories:	Manitoba	
Contract Area Description:	The buoy is located on Moose Lake at the entrance to Moose Creek	
Commissioning date:	no later than June 1st	
Decommissioning date:	no earlier than October 15th	
Total no. of buoys:	1	
Maximum buoy size (dia. (m) / weight (kg)):	0.9	18
Maximum anchor size (weight (kg)):	16 kg	
Maximum water depth (m) :	15m	
Overview of work activities:	<p>The buoy is equipped with a light and is seasonal - complete buoy assembly including mooring is placed each spring (Commissioning) and lifted (Decommissioning) each fall.</p> <p>Unscheduled work includes response to discrepancies.</p> <p><i>Season start and end dates may vary as a result of ice conditions.</i></p> <p>Historical outage levels unavailable; allow for at least 1 outage per season.</p>	
Comments:	This buoy is to be positioned with local knowledge.	

						Unlit									Anchor		Mooring				
Contract Area	List of Light No	Aid Id	Aid Name	Prov.	Main Chart No	Lantern	Type of Aid	Weight (kg)	Aid Material	Colour	Service	Depth	Latitude	Longitude	Type	Size (kg)	Length (m)	Size (mm)	Last Change	Next Change	Importance
W-11	1645.800	D5	Moose Creek Entrance light buoy D5	MB	N/A	Sealite SL70	2ft 11in Tideland/NPL (WB-390)	18	Plastic	Green	Seasonal	1.00	53° 42' 0"	100° 2' 0"	DOR-MOR	16	15	1	N/A	N/A	2