

APPENDIX C – COMMISSIONING PLAN

Commissioning Plan – Contractor's Matrix of
Responsibilities. CBCL 121032.01, 04 September 2013.

BUOY MAINTENANCE AREA		CBCL 121032.01		04 SEPTEMBER 2013
PWGSC PROJECT #R.059440.001				
APPENDIX TO SPECIFICATIONS				
COMMISSIONING PLAN - CONTRACTOR'S MATRIX OF RESPONSIBILITIES				
SPECIFICATION DIVISION / SECTION	SHOP DRAWINGS / CUT SHEETS / DESIGN SUBMISSIONS	TESTING	TRAINING	COMMISSIONING
DIVISIONS 02 TO 09				
02 41 00	N/A	N/A	N/A	N/A
03 30 00	All items and assemblies provided and all concrete mix designs	Cylinder testing per CAN/CSA A23.1	N/A	N/A
05 50 00	All items and assemblies provided	N/A	N/A	N/A
07 11 00	All items and assemblies provided	N/A	N/A	N/A
07 20 00	All items and assemblies provided	N/A	N/A	N/A
09 91 13	All items and assemblies provided	N/A	N/A	Paint coating integrity certification
DIVISION 26				
26 05 00	All items and assemblies provided	CBCL will provide a 100% complete drawing set to NSPI for review. This system's components are to be provided by the contractor.	All systems description and operation	NSP permit to construct and NSP permit to operate. The contractor will be responsible for acquiring the applicable NSPI permits. Commissioning, including energizing of the system will be performed by NSPI as part of the permitting process through the Contractor under the guidance of the Departmental Representative. In addition to NSP requirements, commissioning to include but not necessarily be limited to verification of successful testing of all elements consisting of visual and mechanical inspection, performance of insulation-resistance tests, lighting control functional tests, verification of correct astronomical operation and clock control settings (factory presets to be defined and provided by user), checking of electrical connections bolt-torque levels and materials compatibility, verification of appropriate equipment grounding, verification that transformer winding turns-ratio measurements and polarities are in accordance with nameplate data, and comparison of equipment nameplate data with drawings and specifications.
26 05 20	All items and assemblies provided	N/A		
26 05 21	All items and assemblies provided	per 26 05 00		
26 05 28	All items and assemblies provided	per 26 05 00		
26 05 29	All items and assemblies provided	N/A		
26 05 31	All items and assemblies provided	N/A		
26 05 32	All items and assemblies provided	N/A		
26 05 34	All items and assemblies provided	All items and assemblies provided		
26 05 43	All items and assemblies provided	All items and assemblies provided		
26 12 16	All items and assemblies provided	Provide visual and mechanical inspection, perform insulation-resistance test, compare equipment nameplate data with drawings and specifications, check electrical connections bolt-torque levels, verify that transformer winding turns-ratio measurements and polarities are in accordance with nameplate, verify appropriate equipment grounding.		
26 24 16	All items and assemblies provided	Provide visual and mechanical inspection, verify appropriate equipment grounding, compare equipment nameplate data with drawings and specifications.		
26 27 26	All items and assemblies provided	Provide visual and mechanical inspection, perform insulation-resistance test, verify appropriate equipment grounding.		
26 28 21	All items and assemblies provided	Perform insulation-resistance test and continuity test on each conductor to insure correct cable connection.		
26 56 19	All items and assemblies provided	Perform swithing tests and verify operation of all illuminares.	Systems description, illuminaire changing instructions	
DIVISION 31				
31 05 10	N/A	N/A	N/A	N/A
31 11 00	As indicated in specification	N/A	N/A	N/A
31 22 13	N/A	per 31 23 10	N/A	N/A
31 22 16	N/A	per 31 23 10	N/A	N/A
31 23 10	As indicated in specification	As indicated in specification	N/A	N/A
31 23 16	All explosives and assemblies provided, Rock Removal Plan, Trial Blasting, Pre-blast survey, Post-blast survey,blast monitoring.	Trial Blasting	N/A	N/A
DIVISION 32				
32 11 16	N/A	per 31 23 10	N/A	N/A
32 12 10	As indicated in specification	As indicated in specification	N/A	N/A
32 12 16	As indicated in specification and all asphalt mix designs	As indicated in specification	N/A	N/A
32 17 23	All items	N/A	N/A	N/A
32 31 13	All items and assemblies provided	N/A	N/A	N/A
32 91 23	As indicated in specification	As indicated in specification	N/A	N/A
32 92 19	As indicated in specification	As indicated in specification	N/A	N/A
32 98 00	N/A	N/A	N/A	N/A
DIVISION 33				
33 11 00	All items and assemblies provided	As indicated in specification	Valve locations and direction of operation. System general description.	Halifax Water approval of installations. To be commissioned in accordance with Halifax Water standards (as contained in specifications). Requires inclusion of system connection into existing BIO water distribution system.
33 31 00	All items and assemblies provided	As indicated in specification	Three-way valve operation and maintenance.	Halifax Water approval of installations. To be commissioned in accordance with Halifax Water standards (as contained in specifications). Requires inclusion of system connection into existing BIO sewer distribution system at sewer manhole immediately upstream of the CCG building sewage lift station.
				Three-way valve manhole assembly. Proofing of three-way valve and indicator post head including open/closed position calibration.
33 39 00	All items and assemblies provided	Leak testing per specifications.	Stormceptor operation and maintenance.	STC 1000 Stormceptor assembly in accordance with manufacturer's instructions.
33 41 00	All items and assemblies provided	As indicated in specification	N/A	N/A
33 65 76	All items and assemblies provided	As indicated in specification	N/A	N/A
DIVISION 34				
34 71 13	All items and assemblies provided	N/A	N/A	N/A