

**APPENDIX 2**

**LNAPL Remediation Construction Checklist**

**Port Stanley, Municipality of Central Elgin, ON**

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**LNAPL REMEDIATION CONSTRUCTION CHECKLIST, PORT STANLEY LANDS, EAST HEADLANDS AND WEST PIER, MUNICIPALITY OF CENTRAL ELGIN, ONTARIO**

This checklist outlines the requirements for LNAPL remediation and risk management measures construction under the R.013137.005 Specifications and is intended to be used as an on-Site tool to ensure that the work is completed as per the tender specifications and design drawings prepared for the site.

**Table 1: Remediation and Risk Management (R/RM) Construction Checklist**

	Checklist Item	Completed Y/N	Comments
1	Locate the underground utilities at the Site before initiating the LNAPL remediation construction activities in all work areas.		Known utility plans have been provided as part of tender package.
2	Decommission seven (7) existing monitoring wells (EHL MW11-10, EHL MW11-11, EHL MW11-12, BH-1, BH-3, BH08-10, BH08-11) located in proximity to three of the areas to be excavated prior to the soil excavation.		The wells to be decommissioned in accordance with O.Reg.903
3	Find a licensed waste disposal facility that will accept the excavated soil prior to LNAPL Remediation activities.		TCLP testing is required, ensure that the parameters analyzed meet the approval requirements for the landfill sourced for the work.
4	East Headlands remove organic soil and vegetation from work area.		Relocate outside limits of excavation within construction limits.
5	East Headlands - establish stockpile areas temporary placement of upper soil horizon as directed by Departmental Representative.		
6	West Pier Area 1 - remove concrete deck from work area as shown on the attached drawings West Pier Areas 1 & 2. East Headlands - establish stockpile areas temporary placement of upper soil horizon as directed by departmental representative.		Dispose of concrete off site.
7	Excavate soil at three areas at the site to a depth as shown on the attached drawings and as per the Departmental Representative's direction on the site.		No soil verification sampling will be required after the excavation.
8	Arrange for the excavated soil to be directly loaded into dump trucks and transported to a licensed waste disposal facility that will accept the soil.		If the excavated soil has to be stockpiled on the site before being removed from the Site, ensure that the soil is stockpiled on geotextile and is covered up nightly to prevent generating of contaminated runoff.
9	Separate any boulders, metal, or other waste materials from the soil during the soil excavation and loading. Recycle any recyclable material (metal or glass) if present in the excavated soil.		Boulders (if found) can be backfilled into the excavated area provided that they are placed in such a way as to ensure that they will not protrude from the ground surface once the areas are capped with at least 1 m of fill.
10	West Pier Area 1 & 2 - Complete Work Under the Direction of the Marine Engineer and facilitate inspection of dockwall infrastructure as required.		If pre existing damage to the dock wall is observed report the issue immediately to the Marine Engineer or Departmental Representative.
11	Provide the weight tickets from the landfill promptly to the Departmental Representative after the completion of the remedial excavation activities.		Weight tickets are the proof of disposal and must be provided for payment of the contractor. Dispose of concrete off site.

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	Checklist Item	Completed Y/N	Comments
12	Backfill the three excavated areas with clean soil, imported fill or backcast material as shown on drawings and as per the Departmental Representative's direction on the site.		For East Headlands and West Pier Area 2 backfill will initially comprise of clean fill supplied by MCE then backcasting of site derived soil stockpiled on site. A 500 mm layer of clean fill meeting MOECC Table 1 standards, underlain by a non-woven geotextile, will be used to cap the work areas in the East Headlands and West Pier Work Area 2. The West Pier Work Area 1 will be backfilled initially with clear stone imported to site.
13	Provide proof to the Departmental Representative of the source and quality of the backfill material to be used to reinstate site conditions.		i.e. Analytical results supplied by the quarry where the material came from
14	For West Pier Area 1 reinstate concrete deck as shown on drawings.		