

1. Section 01 00 00 – List of Contents
  - a. Delete 02 83 12 Lead-Based Abatement – Maximum Precautions
2. Section 01 10 00 – Summary of Work
  - a. Delete 1.3
  - b. Replace with the following:

### **1.3 WORK COVERED BY CONTRACT DOCUMENTS**

- .1 The main purpose of this project is to abate lead-containing paint from the exterior of structures at the Michipicoten Island East End lighthouse compound. A secondary purpose is to remove debris as well as select exterior asbestos-containing materials. The main phases of this project include but are not limited to:
  - .1 Abatement and off-site disposal of lead-containing exterior paint on the Lighthouse structure, as well as repainting of abated areas of the lighthouse exterior.
  - .2 Abatement and off-site disposal of asbestos containing caulking on the lighthouse structure, and reapplication of joint seal.
  - .3 Abatement and off-site disposal of asbestos containing tar paper and transite cladding with lead-containing paint (2<sup>nd</sup> floor facing) on the Living Quarters building, as well as replacement of cladding.
  - .4 Abatement and off-site disposal of lead-containing exterior paint on the stairs/railing of Living Quarters building, as well as repainting of abated areas of the exterior.
  - .5 Abatement and off-site disposal of lead-containing exterior paint on the Garage/Formal Living Quarters building, as well as repainting of the abated areas of the exterior.
  - .6 Abatement and off-site disposal of asbestos containing caulking on the Garage/Formal Living Quarters building, and re-application of joint seal.
  - .7 Abatement and off-site disposal of lead-containing exterior paint on former building foundation.
  - .8 Abatement and off-site disposal of lead-containing exterior paint on handrails along path to helipad and from northern walkway, as well as repainting of abated areas.
  - .9 Abatement and off-site disposal of lead-containing exterior paint from lighthouse sign base, northern outhouse, and navigation aid bases, as well as repainting of abated areas.
  - .10 Removal and off-site disposal of debris from the shallow landfill dump found west of the site structures, the southern outhouse, the former building foundation, and the concrete bermed area. Access to dump site may require some removal of vegetation to clear pathway.
  - .11 Hand-picking of non-friable asbestos-containing debris from areas of general debris and off-site disposal.
  - .12 Removal and off-site disposal of painted debris from the general site area.
  - .13 Safe removal and off-site disposal of a 60-gallon plastic drum containing diesel fuel, located on the north dock.
  - .14 At no time during abatement or repainting of the lighthouse exterior can the upper floor and lamp be obstructed from view.
  - .15 Select paints are confirmed or assumed to be hazardous with respect to lead for disposal purposes. Where these paints are not removed from their substrate materials, the paint and substrates are to be disposed of as lead hazardous waste.

3. Section 01 11 06 – General Instructions
  - a. Add the following as 1.2.1.2.4: “Contractor to provide transportation of Departmental Representative and their equipment (assume 2 m<sup>3</sup> in size) to and from the Wawa area to site. Contractor to provide transportation for initial mobilization, final demobilization, and shift change mobilization/demobilization between every 12 days or less. The Departmental Representative will endeavor to coincide shift change dates with Contractor worker travel dates, though this cannot be guaranteed. Departmental Representative shift changes will include a replacement worker mobilizing to the site, a maximum of 2 hours of worker overlap, and demobilization of previous Departmental Representative from the site. A single mobilization and demobilization (same day) will be provided by the Contractor to the Departmental Representative’s Biologist in advance of clearing and grubbing.”
4. Section 01 11 06 – General Instructions
  - a. Delete 1.12.1
  - b. Replace with the following: “Submit duplicate samples of new materials (e.g., exterior paints, new siding, caulking) being installed under this contract.”
5. Section 01 11 06 – General Instructions
  - a. Add the following as 1.15.4 “Contractor is to remove from site and appropriately dispose all waste materials generated as part of the project, including human waste.”
6. Section 01 11 06 – General Instructions
  - a. Add the following as 1.21.2 “Site work to be limited to daylight hours only.”
7. Section 01 11 06 – General Instructions
  - a. Add the following as 1.23.5 to 1.23.6:
    - .1 No waste to be stored within 30 metres of a watercourse.
    - .2 All waste loads to be containerized and fully covered during hauling/transportation.
8. Section 01 11 06 – General Instructions
  - a. Delete 1.24.2.1
  - b. Replace with the following: “Comprehensive Designated Substances and Hazardous Materials Survey (DSHMS), Environmental Services Stream 3 – Standing Offer Agreement EQ447-141528/A, Michipicoten Island East, Near Wawa, ON, BluMetric Environmental Inc., June 6, 2017.”
9. Section 01 11 06 – General Instructions
  - a. Delete 1.28.3.1
  - b. Replace with the following: “During course of Work and 1 week prior to project completion, schedule progress meetings weekly.”
10. Section 01 11 06 – General Instructions
  - b. Add the following as 1.29.1.1 to 1.29.1.2
    - .1 Contractor may use existing structures for worker accommodation; however, a single room (minimum 10 square metres in size) within the Living Quarters Building or approved equivalent must be allocated to the on-site Departmental Representative.

- .1 Due to the presence of peeling lead-containing paint and rodent feces, interior surfaces of indoor rooms used by the Contractor will require HEPA vacuuming and disinfection.
- .2 Temporary structures for accommodation erected by the Contractor shall be within the previously disturbed boundaries of the site.
- .3 Contractor to provide meals to on-site Departmental Representative along with their workers.

11. Section 01 32 16 – Construction Project Schedule Bar (GANTT) Chart

- a. Delete 1.1.4
- b. Replace with the following: “Construction Work Week: Sunday to Saturday, inclusive, will provide seven-day work week and define schedule calendar working days as part of Bar (GANTT) Chart submission.”

12. Section 01 32 16 – Construction Project Schedule Bar (GANTT) Chart

- a. Delete 1.4.1
- b. Replace with the following: “The project start date is the date of project award. A kick-off meeting in the Greater Toronto Area will occur within 2 business days of award of contract. Onsite kick-off meeting will occur following contractor mobilization.”

13. Section 01 35 13 – Environmental Procedures

- a. Delete 1.7.5
- b. Replace with the following: “Discharges: comply with applicable discharge limitations and requirements; do not discharge wastewaters to site.”

14. Section 01 35 13 – Environmental Procedures

- a. Delete 1.7.11.1 and 1.7.11.2
- b. Replace with the following:
  - .1 Contractor is responsible for sampling and analysis of wastewater to confirm appropriate method of disposal to meet MOECC requirements.
  - .2 Do not discharge additional liquids to filled tank following sampling by Contractor.

15. Section 01 35 13 – Environmental Procedures

- a. Add the following as Item 1.7.13: “Contractor will be permitted to treat onsite wastewater. Treated water may be discharged to the site, provided the discharge is not within 30 metres of a water body, and provided that the treated discharge water is tested, and results are review and approved by Departmental Representative in advance of discharge. Any treatment system temporarily installed must be removed upon project completion.

16. Section 01 35 13 – Environmental Procedures

- a. Add to 1.12 the following “Obtain approval from Departmental Representative in advance of any operations that will result in erosion or sedimentation, including removal of vegetation.”

17. Section 01 35 29 – Health and Safety Requirements

- a. Delete 1.8.1.3
- b. Replace with the following: “Asbestos in exterior caulking, and exterior transite cladding. Refer to Comprehensive Designated Substances and Hazardous Materials Survey.”

18. Section 01 35 29 – Health and Safety Requirements
  - a. Delete 1.8.1.5
  - b. Replace with the following: “Mouse feces in building interiors.”
19. Section 01 35 29 – Health and Safety Requirements
  - a. Delete 1.8.1.6
20. Section 01 54 23 – Scaffolding and Fall Protection
  - a. Delete 1.2.1
  - b. Replace with the following: “Comprehensive Designated Substances and Hazardous Materials Survey (DSHMS), Environmental Services Stream 3 – Standing Offer Agreement EQ447-141528/A, Michipicoten Island East, Near Wawa, ON, BluMetric Environmental Inc., June 6, 2017.”
21. Section 01 56 00 – Temporary Barriers and Enclosures
  - a. Delete 1.3.1
  - b. Replace with the following: “Erect temporary fencing around immediate work areas as a physical and visible barrier to animals, members of the public, etc. Snow fencing or equivalent is considered acceptable. Ensure fencing may be erected with consideration of shallow, exposed, and uneven bedrock at the site. Maintain fence in good repair.”
22. Section 02 61 00 – Debris Removal
  - a. Delete 1.2.3.2
  - b. Replace with the following: “Comprehensive Designated Substances and Hazardous Materials Survey (DSHMS), Environmental Services Stream 3 – Standing Offer Agreement EQ447-141528/A, Michipicoten Island East, Near Wawa, ON, BluMetric Environmental Inc., June 6, 2017.”
23. Section 02 61 00 – Debris Removal
  - a. Delete 1.7.1.1
  - b. Replace with the following:
    - .1 “Reports and information pertaining to debris to be handled, removed, or otherwise disturbed and disposed of during this Project bound into this specification. Total quantity of non-hazardous solid waste, predominately consisting of metal but also including some non-friable asbestos, estimated to be 20 tonnes.
    - .1 Surface Debris Dump, west of Living Quarters
    - .2 Debris associated with South Outhouse
    - .3 Debris within Concrete Foundation, south of Living Quarters
    - .4 Minor Debris within Concrete Bermed Area, north of Living Quarters
    - .5 General miscellaneous debris throughout site.
24. Section 02 82 00.01 – Asbestos Abatement Minimum Precautions
  - a. Delete 1.1.4.4.4
  - b. Replace with the following: “Miscellaneous small pieces of debris found around site requiring HEPA vacuuming to remove (10 m<sup>2</sup>). See figure C-2.”
25. Section 02 82 00.01 – Asbestos Abatement Minimum Precautions
  - a. Delete 1.1.4.4.5

26. Section 02 82 00.02 – Asbestos Abatement Intermediate Precautions
  - a. Delete 1.1.4.4.4
  - b. Replace with the following: “Miscellaneous small pieces of debris found around site requiring HEPA vacuuming to remove (10 m<sup>2</sup>). See figure C-2.”
27. Section 02 82 00.02 – Asbestos Abatement Intermediate Precautions
  - a. Delete 1.1.4.4.5
28. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Delete 1.1.5.1.3
29. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Add as Item 1.1.8: “Lead-Based Paint Abatement procedures that require maximum precautions, including removal of lead-containing using power tools without an effective HEPA dust collection system OR abrasive blasting of lead-containing coatings or materials are not permitted.”
30. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Delete 1.1.4.1.2
  - b. Replace with “Exterior window trim, doors, parapet railing, and stairwells – red paint (41 m<sup>2</sup>). Note this paint is considered leachate toxic.”
31. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Delete 1.1.4.1.3
  - b. Replace with “Lighthouse sign base – white paint (3 m<sup>2</sup>)”
32. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Delete 1.1.4.2.1
  - b. Replace with “Exterior stairs/deck railing – red paint (10 m<sup>2</sup>). Note this paint is considered leachate toxic.”
33. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Add the following as 1.1.4.2.2: “Exterior paint on asbestos-containing transite siding on the upper floor only – white paint (123 m<sup>2</sup>).”
34. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Delete 1.1.4.9 and 1.1.4.9.1 to 1.1.4.9.5
  - b. Replace with the following:
    - .9 General Site Debris (~300 m<sup>2</sup>) requiring HEPA vacuuming and handpicking for larger items including:
      - .1 Paint chips found surrounding lighthouse – white
      - .2 Painted debris found at various locations around site
35. Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
  - a. Add the following as 1.3.8: “Lead-based paint: Paint containing lead that is to be disturbed or removed as outlined in article 1.1.4.”
36. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Delete 1.1.5.1.3
37. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions

- a. Add as Item 1.1.8: "Lead-Based Paint Abatement procedures that require maximum precautions, including removal of lead-containing using power tools without an effective HEPA dust collection system OR abrasive blasting of lead-containing coatings or materials are not permitted."
- 38. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Delete 1.1.2.1
  - b. Replace with "Removal of all exterior lead containing paint by scraping or sanding using non-powered hand tools."
- 39. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Delete 1.1.4.1.2
  - b. Replace with "Exterior window trim, doors, parapet railing, and stairwells – red paint (41 m<sup>2</sup>). Note this paint is considered leachate toxic."
- 40. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Delete 1.1.4.1.3
  - b. Replace with "Lighthouse sign base – white paint (3 m<sup>2</sup>)"
- 41. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Delete 1.1.4.2.1
  - b. Replace with "Exterior stairs/deck railing – red paint (10 m<sup>2</sup>). Note this paint is considered leachate toxic."
- 42. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Add the following as 1.1.4.2.2: "Exterior paint on asbestos-containing transite siding on the upper floor only – white paint (123 m<sup>2</sup>)."
- 43. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Delete 1.1.4.9 and 1.1.4.9.1 to 1.1.4.9.5
  - b. Replace with the following:
    - .9 General Site Debris (~300 m<sup>2</sup>) requiring HEPA vacuuming including and handpicking for larger items:
      - .1 Paint chips found surrounding lighthouse – white
      - .2 Painted debris found at various locations around site
- 44. Section 02 83 11 – Lead-Based Paint Abatement Intermediate Precautions
  - a. Add the following as 1.3.10: "Lead-based paint: Paint containing lead that is to be disturbed or removed as outlined in article 1.1.4."
- 45. Section 02 83 12 – Lead-Based Paint Abatement Maximum Precautions
  - a. Delete Section 02 83 12 in its entirety. Lead-Based Paint Abatement procedures that require maximum precautions, including removal of lead-containing using power tools without an effective HEPA dust collection system OR abrasive blasting of lead-containing coatings or materials are not permitted.
- 46. Section 09 90 12 – Exterior Repainting
  - a. Add the following as 1.1.1.1: "Repainting to be completed in the same colour and style as abated paint."
- 47. Section 09 90 12 – Exterior Repainting

- a. Add the following as 1.1.4.7 and 1.1.4.8:
  - 7. Lighthouse Sign Base
  - 8. Northern Outhouse

48. Section 09 90 12 – Exterior Repainting

- a. Delete 1.1.5.6

49. Section 09 90 12 – Exterior Repainting

- a. Delete 1.9.1.2.1

50. 90 12 – Exterior Repainting

- a. Delete 1.9.1.2.1
- b. Replace with the following: “Temperature is expected to drop below manufacturer’s prescribed limit before paint has thoroughly cured.”

51. Section 09 90 12 – Exterior Repainting

- a. Delete 2.1.1.1 and 2.1.1.2
- b. Replace with the following:
  - 1. Exterior red paint: CGSB 509-111
  - 2. Exterior white paint: CGSB 513-201