



Sterling Environmental Engineering, P.C.

**ELMIRA CITY SCHOOL DISTRICT
ELMIRA HIGH SCHOOL
BROWNFIELD CLEANUP PROGRAM
SITE NO. C808022
777 SOUTH MAIN STREET
ELMIRA, NEW YORK**

ENVIRONMENTAL MANAGEMENT PLAN

Prepared For:

Elmira City School District
Building and Grounds Department
733 Benjamin Street
Elmira, New York 14901

Prepared by:

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24 Wade Road
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June 3, 2009
Revised June 19, 2009
Addendum #1 – June 28, 2017

**Revisions to Final Approved Environmental Management Plan
(EMP):**

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date
1	6/28/17	HASP Revision to include designation of ECSD Project Personnel, Modified Personal Protective Equipment (PPE), and Initial Training Requirements	Not Applicable for HASP Modification

“Serving our clients and the environment since 1993”

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ADDENDUM NO. 1

The following sections in the Elmira High School (EHS) Environmental Management Plan (EMP), dated June 19, 2009, Health and Safety Plan (HASP, Section 7.0) have been revised to reflect an additional worker category under Initial Training, the designated project personnel, and updated personal protective equipment (PPE). These revisions are necessary to address health and safety of certain activities at the EHS property during various activities that may occur.

Section 7.1:

Add the following section under “Initial Training” of Section 7.1:

5. General workers with 10-hour OSHA general industry training (such as equipment operators, laborers, specialty tradesmen, electricians, delivery personnel, etc.) may be needed to perform work on site that has minimal or no potential for exposure to hazardous substance removal or that is otherwise not expected to expose the worker to hazardous environmental conditions. The work performed by these workers will be supervised by an individual with 40 hour HAZWOPER training. The work zone will be monitored in accordance with the provisions of this HASP to confirm the absence of hazardous environmental conditions that could result in exposure. Work may be performed after monitoring confirms a safe working environment exists. Monitoring of environmental conditions will continue until it is determined by the SDHSO, or his/her designee, that there is no hazardous environmental condition, or until the work is complete.

Section 7.2

Replace the third sentence in the first paragraph under “Section 7.2, Designation of Responsibilities” with the following language:

The Project Manager and SDHSO will be designated by the Elmira City School District (ECSD) prior to the start of a project.

Replace the Key Personnel table on page 49 under “Section 7.2, Designation of Responsibilities” with the following table:

KEY PERSONNEL		
Responsibility	Title	Telephone #
SDHSO	GST BOCES/Elmira City School District, Health & Safety Compliance Specialist	Office: (607) 735-3992 Cell: TBD
Project Manager	Director of Facilities	Office: 607-735-3980 Cell: TBD

Include as a fourth bullet under “The SDHSO has the authority to:” under “Section 7.2, Designation of Responsibilities” with the following language:

- Designate in writing an onsite representative to perform the on-site duties of the SDHSO if the SDHSO is not onsite.

Section 7.3.3

Replace the first sentence in the second paragraph under “Section 7.3.3, Personal Protective Equipment (PPE)” with the following language:

No work is anticipated requiring Level A or B PPE, and very limited work in Level C or Modified Level C PPE. Modified Level C PPE includes chemical resistant clothing, inner and outer chemical resistant gloves, safety boots (steel toe/shank with chemical resistant overboots), hard hat, safety glasses and hearing protection (if warranted). Modified Level C will be implemented to prevent dermal contact with onsite soils when warranted.

Table 7.2

Replace “Table 7.2” with the attached.

S:\Sterling\Projects\2008 Projects\Elmira CSD - 28014\Reports\Environmental Management Plan\2017 June - HASP Addendum#1\2017-06-28 Elmira EMP Addendum 1.docx

TABLE 7-2

AIR MONITORING METHODS, ACTION LEVELS, AND PROTECTIVE LEVELS FOR WORKERS

Hazard	Monitoring Unit	Action Level	Protective Levels/Action	Monitoring Schedule
Organic Vapors ⁽²⁾	PID	1 to 2 ppm above background in the breathing zone	Level D-Continue Work	Continuous for ground intrusive activities ⁽³⁾ .
		2 to 6 ppm above background in the breathing zone	Level D and Test for Benzene with Drager Tube ⁽⁴⁾	
		Benzene 1-10 ppm with Drager Tube	Level C-Continue Work	
		6 to 20 ppm above background in the breathing zone	Level C-Continue Work	
		20 to 60 ppm above background in breathing zone	Level C and Test for Benzene with Drager Tube	
		Benzene >10 ppm with Drager Tube	STOP WORK EVACUATE AREA ⁽¹⁾	
		> 60 ppm above background in the breathing zone	STOP WORK EVACUATE AREA ⁽¹⁾	
Oxygen-Deficient Atmosphere	Q-RAE 4-Gas Meter or Equivalent	19.5 to 23.5%	Level D-Continue Work	Continuous for ground intrusive activities ⁽³⁾ .
		< 19.5%	Do not enter Confined Space, STOP WORK EVACUATE AREA ⁽¹⁾	
		> 23.5%	Fire explosion hazard; EVACUATE AREA ⁽¹⁾	
Explosive Gas (LEL)	Q-RAE 4-Gas Meter or Equivalent	< 10% LEL	Level D-Continue Work	Continuous for ground intrusive activities.
		10 to 20% LEL	If school building is occupied, stop work ⁽¹⁾ . If school building is unoccupied, issue warning.	
		> 20% LEL	EVACUATE AREA ⁽¹⁾	
Hydrogen Sulfide (H ₂ S) ⁽²⁾	Q-RAE 4-Gas Meter or Equivalent	< 5 ppm	Level D-Continue Work	Continuous for ground intrusive activities ⁽³⁾ .
		5 to 10 ppm	If school building is occupied, stop work ⁽¹⁾ . If school building is unoccupied, issue warning.	
		> 10 ppm	STOP WORK EVACUATE AREA ⁽¹⁾	
Dust	Particulate Monitor Miniram or Equivalent	< 5 mg/m ³ above background in the breathing zone.	Level D-Continue Work	Continuous for ground intrusive activities ⁽³⁾ .
		5 to 10 mg/m ³ above background in the breathing zone.	Level C-Continue Work, Employ dust suppression techniques to reduce dust.	
		> 10 mg/m ³ above background in the breathing zone.	STOP WORK EVACUATE AREA ⁽¹⁾ , Employ dust suppression techniques to reduce dust.	

Protection Levels:

Level D - Required PPE: Safety glasses, hard hat, safety boots (steel toe/shank) and work clothes or coveralls.

Modified Level C - Required Personal Protective Equipment (PPE): chemical resistant clothing, inner and outer chemical resistant gloves, safety boots (steel toe/shank with chemical resistant overboots), hard hat, safety glasses and hearing protection (if warranted).

Level C - Required Personal Protective Equipment (PPE): Full face, air purifying respirator or 1/2 face air purifying respirator with safety goggles, chemical resistant clothing, inner and outer chemical resistant gloves, safety boots (steel toe/shank with chemical resistant overboots), hard hat and hearing protection (if warranted).

Notes:

LEL - Lower Explosive Limit

ppm= parts per million

(1) For all circumstances where work is stopped, the School District Health and Safety Officer (SDHSO) must be notified.

(2) Action levels provided for organic vapors and dust represent fifteen (15) minute average values.

(3) Continuous indicates the monitoring unit will continuously collect readings from the workers' breathing space area over a fifteen (15) minute period, and the average for each period will be used to determine the action level.

(4) Test breathing space for Benzene with Drager Tube, if concentration is one (1) ppm or greater, move to Level C PPE.