

PROJECT SPECIFIC HEALTH AND SAFETY PLAN

For

[TYPE OF ACTIVITY]

On behalf of the

NEW YORK CITY ECONOMIC DEVELOPMENT CORPORATION

At

OPERABLE UNIT 1 PORTION OF PARCEL A
HUNTS POINT FOOD DISTRIBUTION CENTER
MEAT MARKET COOPERATIVE
BRONX, NEW YORK

Dates in Effect

[MONTH – YEAR] through [MONTH – YEAR]

[COMPANY NAME]
[COMPANY STREET]
[COMPANY CITY, STATE ZIP]

Project Number

####

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Appendix A Visitors Log

SITE SPECIFIC HEALTH & SAFETY PLAN TITLE PAGE HDR LMS	
PROJECT NAME: NYCEDC Hunts Point Site A OU-1	PROJECT COMPANY: [COMPANY NAME]
JOB SITE ADDRESS: 500 Food Center Drive, Bronx, New York	JOB NUMBER: #####
PROJECT MANAGER: [CONTACT NAME(S)]	PHONE NO. : (###) ###-####
SITE CONTACT: [CONTACT NAME(S)]	PHONE NO. : (###) ###-####
(-) AMENDMENT NO. 0	
OBJECTIVES OF FIELD WORK: [STATE OBJECTIVE] [LIST FIELD ACTIVITIES]	SITE TYPE: Check as many as applicable (X) Active () Landfill () Natural () Inactive () Uncontrolled () Military (X) Secure (X) Industrial () Other specify: () Unsecured () Residential () Enclosed space () Well Field
DESCRIPTION AND FEATURES: Summarize below. Include principal operations and unusual features (containers, buildings, dikes, power lines, hills, slopes, rivers) The Site is located in the urbanized Hunts Point Food Distribution Center in Bronx, New York. The Scope of Work (SOW) for the investigation (dated September 1999), Investigation Report (dated January 2000), and Response Plan (dated July 2000), and Final Engineering Report (dated September 2005) were submitted to NYSDEC, New York State Department of Health (NYSDOH), and New York City Department of Environmental Protection (NYCDEP) for review and approval. OU-1 covers the eastern portion of Site A. The Site (approximately 7.65 acres) is bounded on the north by Viele Avenue, the east by a line that runs through the Meat Market, the south by Food Center Drive, and the west by Operable Unit 2 of Site A (SOU). The July 2000 Response Plan included recommendations for containing and preventing both exposure of soil to people working on the Site and exposure of the soil to continued precipitation. The remedy presented in the draft Engineering Report (March 2002) consisted of an asphalt parking lot/cap across the site, where the parking area has been completed on the southern portion of the site and the limits of the paved area over the northern part of the site are indicated by the site plan overlay. A review of the Site history and conditions was performed before preparation of the SOW. This review in combination with a physical Site inspection was used to prepare the Investigative Work Scope. Information reviewed to assess the Site history and conditions included historic Sanborn fire insurance maps, aerial photographs, historic topographic maps, and Consolidated Edison Company of New York (Con Ed) Site maps. Overall, this parcel was part of a Con Ed coal gasification plant that was initially constructed between 1924 and 1932 and operated until the early 1960s. The plant was constructed to manufacture both oven gas and carburated water gas as major products with coke, ammonium sulphate, coal tar, water gas tar, and light oil as by-products.	

SITE SPECIFIC HEALTH & SAFETY PLAN
TITLE PAGE
HDR|LMS

Approximately 46 buildings or structures existed on the former Con Ed facility which were actively involved in gas production.

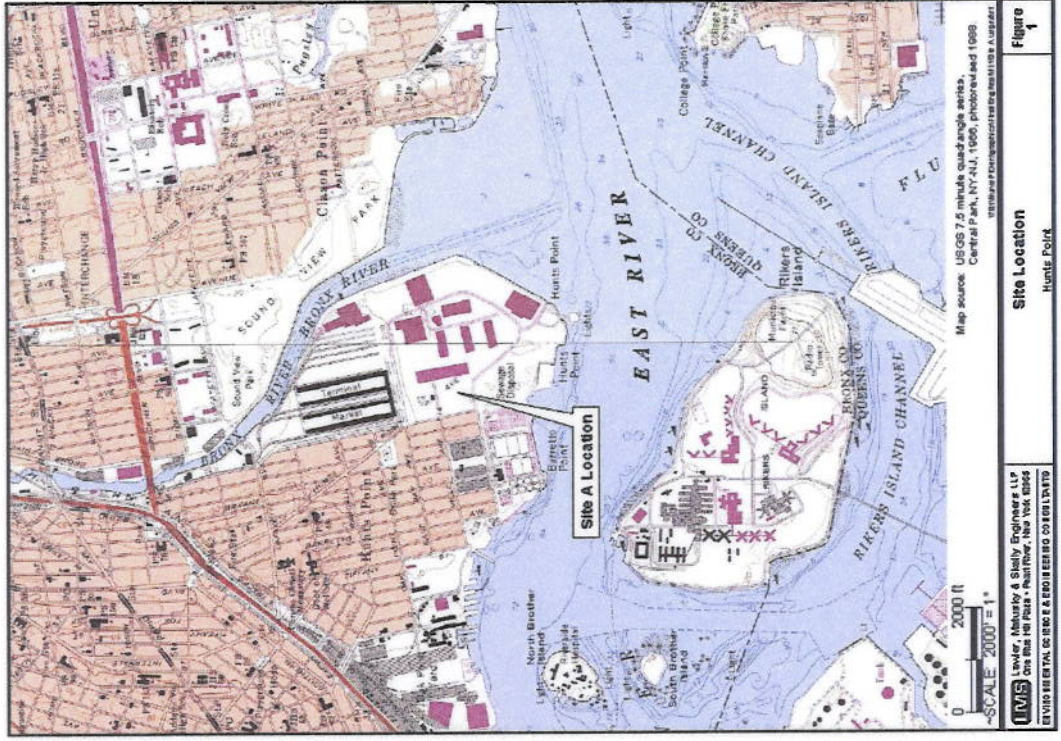
The investigation included the excavation and examination of on-Site material and the collection of soil samples for chemical analysis, as well as the visual inspection and collection of groundwater samples. A total of five (5) trenches, six (6) temporary piezometers, three (3) deep and thirteen (13) shallow borings were installed across the Site. Sampling locations for the initial investigation were chosen based on historical data and in an effort to characterize the subsurface materials, sampling locations for subsequent investigations were chosen based on the results of the initial investigation.

The results of the initial and supplemental investigations show that the fill material appears to be impacted in part by the former manufactured gas facility, and several significant areas across the Site are noticeably impacted. The volatiles and semi-volatiles detected at the Site, although at relatively low concentrations, appear to be ubiquitous with some isolated areas of high concentrations in the immediate locations of coal tar.

SURROUNDING POPULATION: () Residential (X) Industrial () Rural (X) Urban (X) Commercial () Other:

SITE SPECIFIC HEALTH & SAFETY PLAN
SITE LOCATION PLAN / SITE SKETCH
HDR|LMS

Figure 1 contains the Site Location. Figure 2 contains the Parcel A Operable Unit divisions.



SITE SPECIFIC HEALTH & SAFETY PLAN
SITE LOCATION PLAN / SITE SKETCH
HDR/LMS



HDR | LMS
 HARRINGTON, DUBOIS & SULLIVAN
 ARCHITECTS AND ENGINEERS, P.C.
 IN ASSOCIATION WITH HDR ENGINEERING, INC.
 ONE BIRCHWOOD DRIVE
 WEST FARM, NY 10988

Site A OU-1 Aerial Photograph
 Hunts Point • Site A First Operable Unit

Figure 2

**SITE SPECIFIC HEALTH & SAFETY PLAN
EMERGENCY CONTACTS & APPROVALS**
HDR/ILMS

EMERGENCY CONTACTS	EMERGENCY CONTACTS	EMERGENCY CONTACTS	NAME	PHONE
EPA Region II	(800) 227-8917	Project Manger	[NAME]	(###) ###-####
State EPA Office	(518) 402-8559	Health and Safety Officer	[NAME]	(###) ###-####
Site Telephone	Not Available	State Spill		(845) 256-3000
Poison Control Center	(800) 522-6337	Fire Department		911
Continuum Health Care (Occupational Health Management)	1-800-229-3674 (ext. 440)	Police Department		911
National Response Center	(800) 424-8802	Number of 24-Hour Ambulance:		911
		Nearest Hospital Emergency Room Number:	St. Barnabus Hospital 1967 Turnbull Avenue Bronx, New York	(718) 409-2633

1. Evacuation Routes will be specified by the HSO and communicated to all personnel on site.
2. Personnel will evacuate under conditions specified by air monitoring or as directed by the HSO.
3. An INCIDENT REPORT form will be completed for all accidents (see Appendix A).

QA REVIEW: _____ Date: _____
Office Safety Coordinator

HEALTH AND SAFETY PLAN APPROVALS

Project Manager: _____ Date: _____
 Site Health and Safety Officer: _____ Date: _____

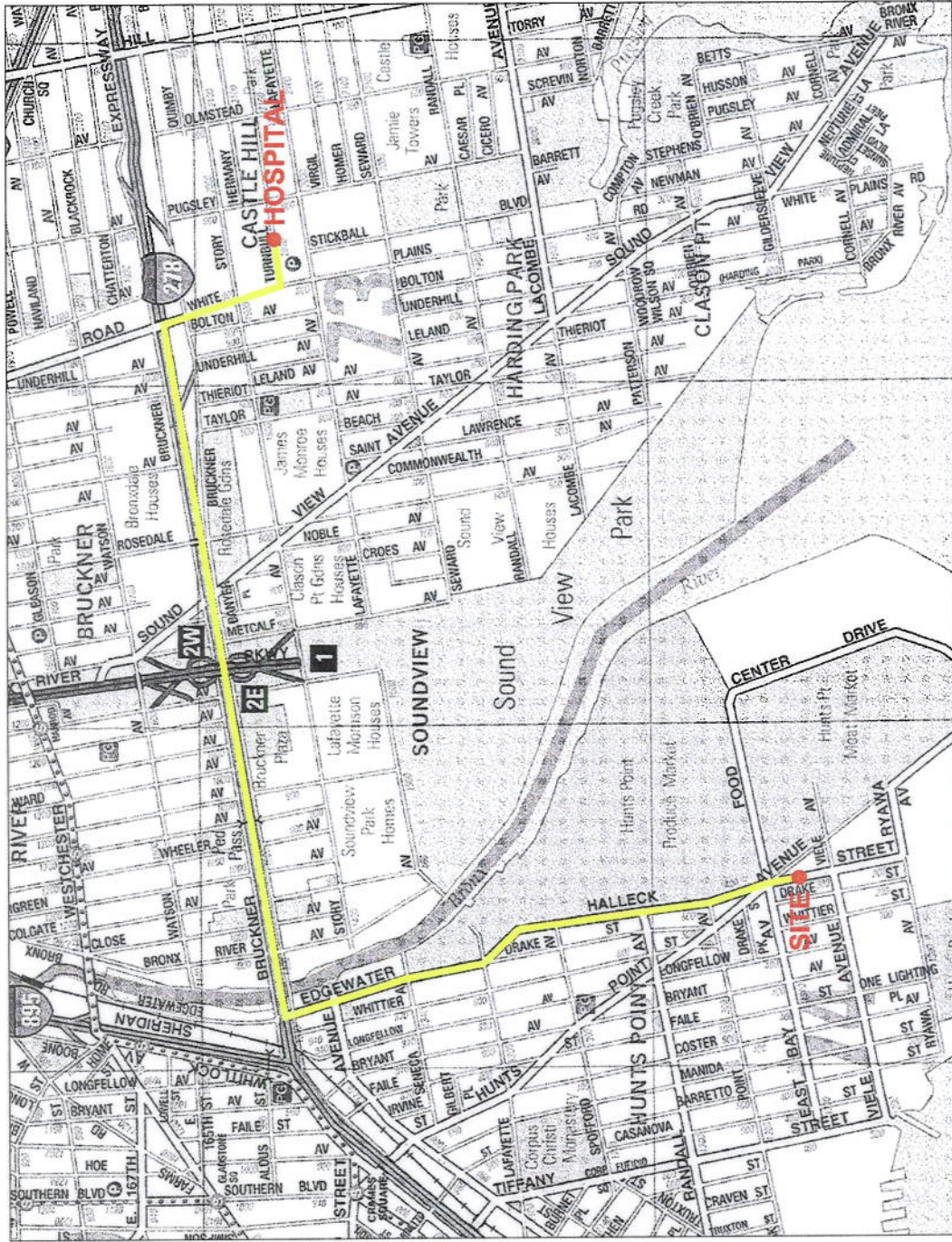
Route to Hospital is described on the following page with a map to the hospital on the next page.

Note:
 Upon new site intrusive activities being scheduled to take place, it shall be the responsibility of the City of New York, as owners of the Site, to notify the New York State Department of Environmental Conservation (NYSDEC) of planned intrusive activities. At such time, the City of New York shall identify the on-site Health and Safety Officer responsible for such activities. The City of New York shall additionally provide a resume of the identified the on-site Health and Safety Officer to the NYSDEC.

**SITE SPECIFIC HEALTH & SAFETY PLAN
HOSPITAL MAP ROUTE
HDR/ILMS**

Directions to St. Barnabas Hospital from the site:

1. Turn right onto Halleck Street
2. Go straight onto Edgewater Road
3. Turn right onto Bruckner Boulevard
4. Take I-278 East/Bruckner Expressway towards the Throgs Neck Bridge
5. Exit at White Plains Road / Castle Hill Avenue
6. Merge onto Bruckner Boulevard
7. Turn right onto White Plains Road
8. Turn left onto Turnbull Avenue.



**SITE SPECIFIC HEALTH & SAFETY PLAN
HISTORY AND WASTE CHARACTERIZATION**
HDR/LMS

HISTORY: Summarize site specific information below or attach information behind this page.

WASTE TYPES: (X) Liquid (X) Solid (X) Sludge () Gas () Unknown () Other specify:

WASTE CHARACTERISTICS: Check as many as applicable.

- () Corrosive () Flammable () Radioactive
- (X) Toxic (X) Volatile () Reactive
- () Inert Gas () Unknown () Other specify:

WORK ZONES: Describe how the Exclusion, Contamination Reduction, and Support Zones will be delineated in terms that on-site personnel will recognize. Work zones will be shown on "WORK ZONE MAP PAGE."

1. Exclusion zone will be considered to be within 20 feet of the site activity.

HAZARDS OF CONCERN: Check as many as applicable.

- (X) Heat Stress attach guidelines (X) Noise
- (X) Cold Stress attach guidelines (X) Inorganic Chemicals
- (X) Explosive/Flammable (X) Organic Chemicals
- () Oxygen Deficient (X) Motorized Traffic
- () Radiological (X) Heavy Machinery
- () Biological (X) Slips, Trips & Falls

PRINCIPAL DISPOSAL METHODS AND PRACTICES: Summarize Site Specific Conditions Procedures Below:

All waste generated site activities shall be the full responsibility of the subconsultant/contractor retained to conduct the ground-intrusive site activities.

(X) Other:

- First Aid/CPR
- Air Monitoring
- Personal Protective Equipment

(X) Other specify: **CONFINED SPACES WILL NOT BE ENTERED.**
(If confined spaces are to be entered a specific confined space entry plan will be developed)

SITE SPECIFIC HEALTH & SAFETY PLAN HAZARDOUS MATERIALS SUMMARY HDR/ILMS					
HAZARDOUS MATERIAL SUMMARY: Underline and bold waste type and estimate amounts by category (if possible)					
CHEMICALS Amounts/Units:	SOLIDS Amounts/Units:	SLUDGES Amounts/Units:	SOLVENTS Amounts/Units:	OILS Amounts/Units:	OTHER Amounts/Units:
Acids	Flyash	Paint	Halogenated (chloro, bromo) Solvents	Oily Wastes	Laboratory
Pickling Liquors	Asbestos	Pigments	Hydrocarbons	Gasoline	Pharmaceutical
Caustics	Milling/Mine Tailings	Metal Sludges	Alcohols	Diesel Oil	Hospital
Pesticides	Ferrous Smelter	POTW Sludge	Ketones	Lubricants	Radiological
Dyes/Inks	Non-ferrous Smelter	Aluminum	Esters	PCBs	Municipal
Cyanides	Metals	Distillation Bottoms	Ethers	Polynuclear Aromatics	Construction
Phenols	Other:	Other:	Other:	Other:	Munitions
Halogens	- Solidified Coal Tar	- Malleable Coal Tar	- VOCs and SVOCs found in GW & soil samples	- Site former MGP plant	Other
Dioxins	- Coal/Coke Ash/Cinders				Specify:
Other (Specify):	- Purifier Waste				
OVERALL HAZARD EVALUATION: () High (X) Medium () Low () Unknown JUSTIFICATION: Materials and operations on the site pose a moderate threat to site workers.					
FIRE/EXPLOSION POTENTIAL: () High () Medium (X) Low () Unknown					

**SITE SPECIFIC HEALTH & SAFETY PLAN
CHEMICAL HAZARD TABLE
HDR|LMS**

KNOWN CONTAMINANTS	HIGHEST OBSERVED CONCENTRATION (specify units and media)	PEL/TLV ppm or mg/m ³ (specify)	IDLH ppm or mg/m ³ (specify)	SYMPTOMS/EFFECTS OF ACUTE EXPOSURE	PHOTOIONIZATION POTENTIAL
Benzene	71 ppm(S) (DTP-4 April 2006)	PEL: 1 ppm TLV: 0.5 ppm	500 ppm	Symptoms of acute overexposure include irritation of the eyes, nose, and respiratory tract, breathlessness, euphoria, nausea, drowsiness, headache, dizziness, and intoxication. Severe exposure may lead to convulsions and unconsciousness. Skin contact may cause a drying rash (dermatitis).	9.24
Naphthalene	2,000 ppm (S) (TP-C April 2005)	PEL: 10 ppm TLV: 10 ppm	500 ppm	Inhalation: Vapor inhalation causes headache, confusion, nausea, sometimes vomiting, loss of appetite, extensive sweating, dysuria (painful urination), hematuria (blood in the urine), and hemolysis (destruction of red blood cells). Eye: Irritation, conjunctivitis, and corneal injury upon prolonged contact. Skin: Irritation and hypersensitivity dermatitis. Ingestion: Unlikely. However, ingestion causes irritation of the mouth and stomach, hemolytic anemia with hepatic and renal lesions and vesical congestion, kidney failure, hematuria, jaundice, depression of CNS, nausea, vomiting, abdominal pain, blue face, lips, or hands, rapid and difficult breathing, headache, confusion, excitement, malaise, fever, perspiration, urinary tract pain, dizziness, convulsions, coma, and death. Symptoms may appear 2 to 4 hours after exposure.	Insufficient Data
<p>NA = Not Available NE = None Established U = Unknown S = Soil SW = Surface Water T = Tailings A = Air GW = Groundwater SL = Sludge</p> <p>W = Waste SD = Sediment D = Drums OFF = Offsite</p>					

HAZARD COMMUNICATIONS STANDARD

A notebook containing this Site Specific Health and Safety Plan will be taken to the field with the crew and kept in the vehicle. A current inventory of chemicals to be brought on-site and appropriate MSDSs will accompany these chemicals in the vehicle.

SITE SPECIFIC HEALTH & SAFETY PLAN TASK DESCRIPTION HDR LMS		FIELD ACTIVITIES COVERED UNDER THIS PLAN - ATTACH ACTIVITY HAZARD ANALYSIS FOR EACH TASK				HAZARD
TASK DESCRIPTION/SPECIFIC TECHNIQUE-STANDARD OPERATING PROCEDURES/SITE LOCATION(Attach additional sheets as necessary)	Type	Primary	Contingency		SCHEDULE	
			A B C D	Exit Area		Hi
1 [FIELD ACTIVITY TASK]	Intrusive	A B C D	A B C D	Hi	Med	Low
	Non-intrusive	Modified D	Exit Area			X
2 [FIELD ACTIVITY TASK]	Intrusive	A B C D	A B C D	Hi	Med	Low
	Non-intrusive	Modified D	Exit Area		X	
3 [FIELD ACTIVITY TASK]	Intrusive	A B C D	A B C D	Hi	Med	Low
	Non-intrusive	Modified D	Exit Area		X	
4 [FIELD ACTIVITY TASK]	Intrusive	A B C D	A B C D	Hi	Med	Low
	Non-intrusive	Modified D	Exit Area		X	

PERSONNEL AND RESPONSIBILITIES (Include subcontractors) Responsibilities and the reporting organizational structure are described on the following page.						
NAME	PHONE	DATE OF LAST TRAINING	DATE OF HEALTH CLEARANCE	RESPONSIBILITIES	ON-SITE? List task numbers	
[NAME]	(###) ###-####	[YEAR]	[YEAR]	[TITLE]	NO or YES, TASK #s	
[NAME]	(###) ###-####	[YEAR]	[YEAR]	[TITLE]	NO or YES, TASK #s	
[NAME]	(###) ###-####	[YEAR]	[YEAR]	[TITLE]	NO or YES, TASK #s	
[NAME]	(###) ###-####	[YEAR]	[YEAR]	[TITLE]	NO or YES, TASK #s	

SITE SPECIFIC HEALTH & SAFETY PLAN
DESCRIPTION OF RESPONSIBILITIES AND ORGANIZATIONAL STRUCTURE
 HDR|LMS

1. Site Safety and Health Personnel.
 The Site Health and Safety Officer (HSO), in conjunction with the Site Coordinator, ensures that the provisions of this HASP are adequate and implemented in the field. The Project Manager is to take all necessary actions to guarantee site safety. Changing field conditions may require decisions to be made concerning adequate protection programs and may require deviations or additions to this HASP. All deviations and/or additions must be documented and approved by the HSO on the DEVIATIONS AND ADDITIONS form, located in Appendix B. Personnel assigned as HSO must be experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120 and this HASP. The HSO is also responsible for conducting site inspections on a regular basis to ensure the effectiveness of this plan.
2. Organizational Structure and Responsibilities.
 Briefly describe the responsibilities of all team members and denote the reporting structure.
 1. **Project Manager**
 - a. Overall responsibility for project schedule.
 - b. Develop cost estimates for work identified.
 - c. Identify scope of work and estimate schedule for work.
 - d. Determine the technical/field team.
 - e. Will not be on site.
 2. **Site Coordinator (reports to "1" when "1" is on-site, otherwise in charge)**
 - a. Enforce disciplinary action when unsafe acts or practices occur.
 - b. Grant permission for site access (including visitors, see Appendix C).
 - c. Designate site security.
 - d. Enforce the buddy system.
 - e. Attend all Site pre-entry safety briefings.
 - f. Serve as the facilitator of communications in emergencies.
 3. **Site Health and Safety Officer (HSO) (Same as "2")**
 - a. Maintain daily field log book and a health and safety file for the project.
 - b. Conduct safety meetings.
 - c. Monitor on-site hazards and conditions.
 - d. Enforce safety procedures.
 - e. Designate facilities, and equipment for health and safety.
 - f. Select, dispense, and ensure availability of Personal Protective Equipment (PPE).
 - g. Maintain copies of instrument operation manuals and maintain records of usage and calibration.
 - h. Periodically inspect PPE and ensure proper storage and maintenance.
 - i. Monitor for heat and cold stress.
 - j. Set up decontamination lines, control decontamination, prepare decontamination solutions, and monitor.
 - k. Train employees on emergency procedures and evacuation routes.
 - l. Control entry and exit at the Access Control Points.
 - m. Confirm an employee's suitability for work based on the physician's recommendation.
 4. **Other On-Site Personnel (report to "2")**

SITE SPECIFIC HEALTH & SAFETY PLAN

PPE BY TASK

HDRILMS

PROTECTIVE EQUIPMENT: Specify by task. Indicate type and/or material as necessary. Use copies of this sheet if needed.

TASKS: 1 - 2 - 3 - 4 (x) Primary
LEVEL: A - B - C - D - Modified () Contingency

Respiratory: (x) Not Needed
 () SCBA, Airline;
 () APR;
 () Cartridge;
 () Escape Mask;
 () Other;

Head and Eye: () Not Needed
 (x) Safety Glasses
 () Face Shield;
 () Goggles;
 (x) Hard Hat
 () Other;

Boots: () Not Needed
 (x) Boots: Leather steel-toed work boots
 () Over boots;
 () Rubber;

Protective Clothing: (x) Not Needed
 () Encapsulated Suit;
 () Splash Suit;
 () Apron
 (x) Tyvek Coverall - OPTIONAL
 () Saranex Coverall;
 () Cloth Coverall;
 () Other;

Gloves: () Not Needed
 () Under gloves;
 (x) Gloves
 () Over gloves;

() Other - specify below:

TASKS: 1 - 2 - 3 - 4 (x) Primary
LEVEL: A - B - C - D - Modified () Contingency

Respiratory: (x) Not Needed
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 () APR;
 () Cartridge;
 () Escape Mask;
 () Other;

Head and Eye: () Not Needed
 (x) Safety Glasses
 () Face Shield;
 () Goggles;
 (x) Hard Hat
 () Other;

Boots: () Not Needed
 (x) Boots: Leather steel-toed work boots
 () Over boots;
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Protective Clothing: (x) Not Needed
 () Encapsulated Suit;
 () Splash Suit;
 () Apron
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 () Encapsulated Suit;
 () Splash Suit;
 () Apron
 (x) Tyvek Coverall - OPTIONAL
 () Saranex Coverall;
 () Cloth Coverall;
 () Other;

Gloves: () Not Needed
 () Under gloves;
 (x) Gloves
 () Over gloves;

() Other - specify below:

**SITE SPECIFIC HEALTH & SAFETY PLAN
AIR MONITORING BY TASK
HDR|LMS**

MONITORING EQUIPMENT: Specify by task. Indicate type as necessary. Attach additional sheets as necessary.

INSTRUMENT	TASK	ACTION GUIDELINES	COMMENTS (Includes schedules of use)	
Combustible Gas Indicator	1 - 2 - 3 - 4	<p>0-10% LEL 10-25% LEL >25% LEL</p> <p>21.0% O₂ <20.5% O₂ <19.5% O₂</p>	<p>No explosion hazard Potential explosion hazard; notify HSO. Explosion hazard; interrupt task/evacuate</p> <p>Oxygen normal Oxygen deficient; notify HSO. Interrupt task/evacuate</p>	(X) Not Needed
Radiation Survey Meter	1 - 2 - 3 - 4	3X Background >2mR/hr	Notify SHSC Interrupt task/evacuate	(X) Not Needed
Photo ionization Detector () 11.7 ev (X) 10.2 ev () 9.8 ev () ___ ev	1 - 2 - 3 - 4	Specify: If TOTAL VOC's ≥ 5 PPM above background in the breathing zone, sustained for 5 or more minutes, all personnel shall evacuate the site. Contact Project HSO and the site shall be reevaluated after 30 minutes. The HSO will re-enter the site upwind and monitor with the PID. Once the volatile levels are below 1 PPM, work can continue.		() Not Needed
Flame Ionization Detector	1 - 2 - 3 - 4	Specify:		(X) Not Needed
Detector Tubes/Monitox	1 - 2 - 3 - 4	Specify:		(X) Not Needed
Dust Monitor	1 - 2 - 3 - 4	Specify: Particulates will be monitored within the work area during intrusive activities. Prior to beginning intrusive work, a background ambient measurement will be collected. If during the work, particulate levels in the work area are 150 ug/m ³ above the background level for a period of fifteen (15) minutes, then downwind perimeter measurements will be collected. If measurements remain 150 ug/m ³ above the background then dust suppression techniques will be employed.		() Not Needed
Other: Specify	1 - 2 - 3 - 4	Specify:		() Not Needed

Notes:

1. Personal air samples taken during unique site activities must be documented on the INDUSTRIAL HYGIENE SAMPLING SHEET.
2. Exceedences observed in the Community Air Monitoring Plan will be reported in the daily report to the NYSDEC project manager.

**SITE SPECIFIC HEALTH & SAFETY PLAN
DECONTAMINATION
HDR/ILMS**

DECONTAMINATION PROCEDURES

ATTACH SITE MAP INDICATING EXCLUSION, DECONTAMINATION, AND SUPPORT ZONES AS PAGE TWO

<p><u>Personalized Decontamination</u> Summarize below and/or attach diagram; discuss use of work zones.</p> <p>Site personnel will wear disposable gloves. No other portion of body should be exposed.</p> <p>Observers will wear disposable PPE.</p> <p style="text-align: right;">(X) Not Needed</p>	<p><u>Equipment Decontamination</u> Summarize below and/or attach diagram; discuss use of work zones.</p> <p>For equipment such as spoons, shovels, knives, bowls, trowels, hand augers, balers, etc., the following procedures will be used:</p> <ol style="list-style-type: none"> (1) Initial wash with potable water/alconox soap mixture. Scrub brushes will be used to remove all residual dirt or other debris. (2) Potable water wash to remove all soap residue. (3) Rinse with distilled/deionized water. (4) Wrap decontaminated equipment in plastic or aluminum foil to prevent recontamination. <p>For activity in areas where free-product petroleum (NAPL) is encountered, the following additional steps will be added between steps 2 and 3 above:</p> <ol style="list-style-type: none"> 2a) Methanol Rinse 2b) Hexane Rinse 2c) Methanol Rinse <p>For activity in areas where elevated metal concentrations are a concern, the following additional step will be added between steps 2 and 3 above:</p> <ol style="list-style-type: none"> 2a) Rinse with diluted (10%) nitric acid (HNO₃). <p style="text-align: right;">() Not Needed</p>	<p><u>Heavy Equipment Decontamination</u> Summarize below and/or attach diagram; discuss use of work zones.</p> <p>For equipment such as excavation buckets, drill rigs, augers, drill rods, etc. the following procedures will be used:</p> <ol style="list-style-type: none"> (1) Spray with a hot water/high pressure sprayer (Hotsy) using on-base potable water supply. (2) Stubborn soil or residue may be washed with a potable water/alconox soap mixture. Scrub brushes will be used to remove all residual dirt or other debris. (3) Place decontaminated equipment in a secure location, or wrap in plastic to prevent recontamination <p style="text-align: right;">() Not Needed</p>
<p><u>Containment and Disposal Method</u> Disposable PPE will be placed in sealed plastic bags, and disposed of as municipal waste.</p>	<p><u>Containment and Disposal Method</u> See principal disposal methods and practices.</p>	<p><u>Containment and Disposal Method</u> See principal disposal methods and practices.</p>

**SITE SPECIFIC HEALTH & SAFETY PLAN
WORK ZONE
HDR/LMS**

THIS PAGE RESERVED FOR MAP (Show Exclusion, Contamination Reduction, and Support Zones. Indicate evacuation and reassembly points.)

To Be Completed On Site.

