



Fw: Black Leaf Chemical HASP
Katrina Jones to: Debbie Jourdan

08/09/2010 11:16 AM

----- Forwarded by Katrina Jones/R4/USEPA/US on 08/09/2010 11:15 AM -----

From: Ryan Stubbs <RStubbs@otie.com>
To: Donna Seadler/R4/USEPA/US@EPA
Cc: Allyson Warrington <AWarrington@otie.com>, Darryl Walker/R4/USEPA/US@EPA, Greg Kowalski <GKowalski@otie.com>, Katrina Jones/R4/USEPA/US@EPA
Date: 08/09/2010 09:19 AM
Subject: Black Leaf Chemical

Hi Donna,

Attached is the HASP for the upcoming field event at Black Leaf Chemical.

Regards,

Ryan C. Stubbs

Environmental Scientist, START Region IV

Oneida Total Integrated Enterprises

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Black Leaf HASP_for delivery.pdf

HEALTH AND SAFETY PLAN FORM		<i>This document is for the exclusive use of TN&Associates its subcontractors, and EPA.</i>		OTIE	
OTIE Health and Safety Program				Site Name: Black Leaf Chemical Company	
PROJECT NAME:	<u>Black Leaf Chemical Company</u>	DATE:	<u>8/4/2010</u>		
PROJECT#:	<u>TNA-05-003-0110</u>	CLIENT:	<u>EPA</u>		
LOCATION:	<u>1391 Dixie Highway</u>	EPA CONTACT/PHONE #:	<u>Donna Seadler (404) 562 - 8870</u>		
	<u>Louisville, Jefferson County, Kentucky</u>	LOCAL/SITE CONTACT PHONE #:	<u>TBD</u>		
INCIDENT DESCRIPTION: Site Investigation which includes surface soil sampling and collecting subsurface via geoprobe sampling. Geoprobe will be conducted by KDEP or a subcontractor		SOURCE OF PRELIMINARY INFORMATION: Kentucky Department for Environmental Protection (KDEP) sampling plan			
ANTICIPATED TASKS: (e.g. collect surface soil samples): START will collect surface and subsurface soil samples from approximately 30 locations on an industrial property and from 2 background locations off site.		TYPE: <i>Check as many as applicable</i>			
	Active	<input type="checkbox"/>	Landfill	<input type="checkbox"/>	Spill <input type="checkbox"/>
	Inactive	<input checked="" type="checkbox"/>	Uncontrolled	<input type="checkbox"/>	Fire <input type="checkbox"/>
	Secure	<input checked="" type="checkbox"/>	Industrial	<input checked="" type="checkbox"/>	Military <input type="checkbox"/>
	Unsecure	<input type="checkbox"/>	Recovery	<input type="checkbox"/>	Unknown <input type="checkbox"/>
	Enclosed space	<input type="checkbox"/>	Well Field	<input type="checkbox"/>	Other (specify) <input type="checkbox"/>
DESCRIPTION AND FEATURES: <i>Include principal operations and unusual features (containers, buildings, dikes, power lines, hillslopes, rivers, etc.)</i> Black Leaf Chemical Company handled pesticides at the site between 1955 and 1970. The former facility is located on 29 acres in northwestern Jefferson County at 1391 Dixie Highway, Louisville, Kentucky. The site is bordered to the north by a residential neighborhood, to the south by a large rail yard, and to the east and west by industrial/commercial areas. Former operation features included an insecticide manufacturing building and a laboratory and extraction room. A wood treatment operation also operated at the site from 1982 to 2001. Since 2001, the site was used for warehouse storage, but it is currently abandoned. Several structures remain on the property.					
SURROUNDING POPULATION: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Rural <input type="checkbox"/> Urban <input type="checkbox"/> Other:					

HEALTH AND SAFETY PLAN FORM*This document is for the exclusive***OTIE****OTIE Health and Safety Program***use of TN&Associates its subcontractors, and EPA.***Site Name: Black Leaf Chemical Company****HISTORY:***Summarize conditions that relate to hazard. Include citizen complaints, spills, previous investigations or agency actions, known injuries, etc.*

Black Leaf Chemical Company handled pesticides at the site between 1955 and 1970. The former facility is located on 29 acres in northwestern Jefferson County at 1391 Dixie Highway, Louisville, Kentucky. The site is bordered to the north by a residential neighborhood, to the south by a large rail yard, and to the east and west by industrial/commercial areas. Former operation features included an insecticide manufacturing building and a laboratory and extraction room. A wood treatment operation also operated at the site from 1982 to 2001. Since 2001, the site was used for warehouse storage, but it is currently abandoned. Several structures remain on the property. A Phase I ESA in June 1999 identified underground storage tanks, asbestos-containing material, soil staining, and discolored pools of water, and stressed vegetation. In March 2010, KDEP conducted XRF screening at the facility and found elevated levels of lead and arsenic in surface soils.

WASTE TYPES: Liquid Solid Sludge Gas Unknown Other:

WASTE CHARACTERISTICS: *Check as many as applicable.* Corrosive Flammable Radioactive Toxic Volatile Reactive Inert Gas Unknown Other, Specify: _____**WORK ZONES:***Describe the Exclusion, Contamination Reduction, and Support Zones in terms on-site personnel will recognize*

The Work zone will surround the Geoprobe when in operation. The safety officer near the Geoprobe is the Geoprobe foreman. All work and safety issues will be discussed prior to beginning any geoprobe activities.

HAZARDS OF CONCERN:

Heat Stress *attach guidelines* Noise
 Cold Stress *attach guidelines* Inorganic Chemicals
 Explosive/Flammable Organic Chemicals
 Oxygen Deficient Motorized Traffic
 Radiological Heavy Machinery
 Biological Slips, Trips, & Falls
 Other, Specify: _____

FACILITY'S PAST AND PRESENT DISPOSAL METHODS AND PRACTICES:

The facility's past disposal methods and practices are unknown.

HEALTH AND SAFETY PLAN FORM*This document is for the exclusive***OTIE****OTIE Health and Safety Program***use of TN&Associates its subcontractors, and EPA.***Site Name: Black Leaf Chemical Company****HAZARDOUS MATERIAL SUMMARY:***Circle waste type and estimate amounts by category.*

CHEMICALS: <i>Amount/Units:</i>	SOLIDS: <i>Amount/Units:</i>	SLUDGES: <i>Amount/Units:</i>	SOLVENTS: <i>Amount/Units:</i>	OILS: <i>Amount/Units:</i>	OTHER: <i>Amount/Units:</i>
Pesticides Unknown Metals arsenic, lead					

OVERALL HAZARD EVALUATION: ()High ()Medium (X)Low ()Unknown**JUSTIFICATION:** Based on the sample technique using a geoprobe, there are some physical hazards and the potential of chemical hazards due to the unknowns. All personnel need to wear hearing protection near the geoprobe activities.**FIRE/EXPLOSION POTENTIAL:** ()High ()Medium (X)Low ()Unknown**INFORMATION COMPLETE:** ()Complete ()Incomplete (X)Best Available at Current Time

HEALTH AND SAFETY PLAN FORM
OTIE Health and Safety Program

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OTIE
Site Name: Black Leaf Chemical Company

KNOWN CONTAMINANTS	NIOSH REL (ST if Available) ppm or mg/m ³ (specify)	OSHA PEL (ST if Available) ppm or mg/m ³ (specify)	IDLH ppm or mg/m ³ (specify)	SYMPTOMS & EFFECTS OF ACUTE EXPOSURE	PHOTO IONIZATION POTENTIAL
Dieldrin	0.25 mg/m ³	TWA 0.005 mg/m ³	9 mg/m ³	Pulmonary edema, dyspnea, cough, chest tightness, substernal pain, headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia, emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	NA
Lead	TWA 0.050 mg/m ³	TWA 0.050 mg/m ³	100 mg/m ³	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypotension	NA
Arsenic	Ca C 0.002 mg/m ³ [15-m TWA 0.010 mg/m ³		5 mg/m ³	Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, respiratory irritation, hyperpigmentation of skin, [potential occupational carcinogen]	NA
<p>NA = Not Available NE = None Established U = Unknown</p> <p style="margin-left: 40px;">S = Soil SW = Surface Water T = Tailings W = Waste SD = Sediment</p> <p style="margin-left: 40px;">A = Air GW = Ground Water SL = Sludge D = Drums OFF = Off-Site</p> <p style="margin-left: 40px;">you will use at the site.</p>					

HEALTH AND SAFETY PLAN FORM		<i>This document is for the exclusive use of</i>		OTIE	
OTIE Health and Safety Program		<i>TN&Associates its subcontractors, and EPA.</i>		Site Name: Black Leaf Chemical Company	
Task Description / PPE / Personnel & Responsibilities			<i>(attach additional sheets as necessary)</i>		
Task 1 Description	Soil sampling			Type Intrusive	Hazard Schedule Low
Primary Level D	Respiratory: none Eyeware: Eye protection Boots: Steel-Toe Gloves: Inner: nitrile	Contingency Level C	Respiratory: APR Eyeware: Boots: Steel-Toe Gloves: Inner: Nitrile	Organic	
PPE:	Clothing: Coveralls	PPE:	Clothing: Tyvek		
Task 2 Description	Subsurface Soil Sampling near Geoprobe			Type Non-Intrusive	Hazard Schedule Low
Primary Level D	Respiratory: Eyeware: Safety Glasses Ear protection Boots: Steel-Toe Gloves: Inner:	Contingency Level C	Respiratory: APR Eyeware: Hard Hat Boots: Steel-Toe Gloves: Inner: Nitrile	p-100 Ear protection	
PPE:	Clothing:	PPE:	Clothing: Tyvek Coverall		
Task 3 Description				Type	Hazard Schedule
Primary Level		Contingency Level	Respiratory: Eyeware: Boots: Gloves:		
PPE:		PPE:	Clothing:		
Task 4 Description				Type	Hazard Schedule
Primary Level	Respiratory: Eyeware: Boots: Gloves:	Contingency Level	Respiratory: Eyeware: Boots: Gloves:		
PPE:	Clothing:	PPE:	Clothing:		
PERSONNEL AND RESPONSIBILITIES					
Name	Company/Agency	Training	Responsibilities		
Ryan Stubbs	OTIE	40-Hr HAZWOPER	Field Team Leader/Site Safety Coord/Sampler		
Stacey DeLaReintrie	OTIE	40-Hr HAZWOPER	Sampler		
Nairimer Berrios-Cartagena	OTIE	40-Hr HAZWOPER	Sample Coordinator		
Doug Fraley	OTIE	40-Hr HAZWOPER	GIS/Sampler		
Lou von Oldenburg	OTIE	40-Hr HAZWOPER	Sampler		

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OTIE Health and Safety Program				Site Name: Black Leaf Chemical Company
Monitoring Equipment:		Specify by task. Indicate type as necessary. Attach additional sheets if needed.		
Tasks: 1 & 2	Instrument: Particulate Dust Monitor Dust Generated by	Level: Level D	Action Guidelines: Less than 2.5 mg/m3	Comments: Any continuous dust generated during sampling activities. Any visual dust detected additional monitoring may be required.
		Level C	at or greater than 2.5 mg/m3	
Tasks:	Instrument:	Level:	Action Guidelines:	Comments:
Tasks:	Instrument:	Level:	Action Guidelines:	Comments:
Tasks:	Instrument:	Level:	Action Guidelines:	Comments:
Tasks:	Instrument:	Level:	Action Guidelines:	Comments:

HEALTH AND SAFETY PLAN FORM*This document is for the exclusive use of TN&Associates its subcontractors, and EPA.***OTIE****OTIE Health and Safety Program****Site Name: Black Leaf Chemical Company****EMERGENCY CONTACTS**

Site Telephone TBD
 EPA Release Report # _____
 TN&Assoc 24-Hr Emergency # 312-296-9186
 Facility Management _____
 Other (specify) _____
 CHEMTREC Emergency #: 1-800-424-9300

CONTINGENCY PLANS: *Summarize below*

Contact corporate Health and Safety officer, William Fink, at 414-234-7845 or Ron Bugg at 312 220-7000 (ext 26) or by cell phone 312 296-9186. The soil sampling activity includes collecting undetermined amount of subsurface samples using a geoprobe. All safety issues with working near the geoprobe will be conducted prior to beginning Geoprobe activities. The foreman of the geoprobe will be the safety officer and will be responsible for the individuals working near the geoprobe. No personnel without geoprobe training will not be permitted to work on or near the area where the geoprobe is being utilized and will stay (approx 5 to 10 feet) away from the sample location. Sample collection via the core will be collected away from the geoprobe sampling area. The sleeves will be cut using the proper tools.

HEALTH AND SAFETY PLAN APPROVALS

Prepared by Stacey DeLaReintrie Date 8/4/2010
 DHSC Signature Ronald Bugg (approval) Date 8/5/2010
 HSM Signature _____ Date _____

EMERGENCY CONTACTS

	NAME	PHONE
Health and Safety Manager	Bill Fink	414-234-7845
Project Manager	Ron Bugg	312-296-9186
Site Safety Coordinator	Ryan Stubbs	678-255-5544
Client Contact (EPA RPM)	Donna Seadler	
Other (EPA HRS coordinator)		
State Agency	KDEP	502-564-6716
State Spill Number		
Fire Department		911
Police Department		911
State Police		911
Health Department		502-574-6650
Poison Control Center		800-222-1222
Occupational Physician	Dr. Jerry Berke, Health Resources	800-350-4511

MEDICAL EMERGENCY

	PHONE
Hospital Name: <u>Jewish Hospital</u>	502-587-4011
Hospital Address: <u>200 Abraham Flexner Way, Louisville, F</u>	
Name of Contact at Hospital: <u>Emergency Room</u>	
Name of 24-Hour Ambulance:	911
Route to Hospital: <u>(see attached sheet)</u>	
Exit site towards Dixie Hwy, turn right on Dixie Hwy.	
Turn R onto Dumesnil St.	
Turn L onto S. 15th St.	
Turn R onto Oak St.	
Turn L onto S. Brook St.	
Turn R onto Abraham Flexner Way.	

Distance to Hospital: ~3.2 miles

HEALTH AND SAFETY PLAN SIGNATURE FORM

OTIE Health and Safety Program

All site personnel must sign this form indicating receipt of the H&SP. Keep this original on site. It becomes part of the permanent project files. Send a copy to the Health and Safety Manager (HSM).

SITE NAME/NUMBER: Black Leaf Chemical Company / TNA-05-003-0110

DIVISION/LOCATION: START Region IV

DATE: 08/23/10

I understand, and agree to comply with, the provisions of the above referenced H&SP for work activities on this project. I agree to report any injuries, illnesses or exposure incidents to the site Health and Safety Coordinator (SHSC). I agree to inform the SHSC about any drugs (legal and illegal) that I take within three days of site work.

PRINTED NAME	SIGNATURE	DATE
Ryan Stubbs		
Nairimer Berrios-Cartagena		
Stacey DeLaReintrie		
Doug Fraley		
Lou von Oldenburg		

HEALTH AND SAFETY PLAN FORM

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OTIE

Site Name: Red Panther

OTIE Health and Safety Program

DECONTAMINATION PROCEDURES

ATTACH SITE MAP INDICATING EXCLUSION, DECONTAMINATION, AND SUPPORT ZONES

Maximum Measures for Level A Decontamination

Station 1	Segregated Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.	Station 17	Inner Clothing Removal	17. Remove inner clothing. Place in container with plastic liner. Do not wear inner clothing off-site since there is a possibility that small amounts of contaminants might have been transferred in removing the fully-encapsulated suit.
Station 2	Boot Cover / Glove Wash	2. Scrub outer boot covers and gloves with decon solution or detergent and water.	Station 18	Field Wash	18. Shower if highly toxic, skin corrosive or skin absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.
Station 3	Boot Cover / Glove Rinse	3. Rinse off decon solution from station 2 using copious amounts of water.			
Station 4	Tape Removal	4. Remove tape around boots and gloves and deposit in container with plastic liner.	Station 19	Redress	19. Put on clean clothes.

Minimum Measures for Level A Decontamination

Station 5	Boot Cover Removal	5. Remove boot covers and deposit in container with plastic liner.	<p>Minimum Measures for Level A Decontamination</p> <p>Station 1</p> <p>Equipment Drop</p> <p>1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.</p>		
Station 6	Outer Glove Removal	6. Remove outer gloves and deposit in container with plastic liner.			
Station 7	Suit and Boot Wash	7. Wash encapsulating suit and boots using scrub brush and decon solution and detergent/water. Repeat as many times as necessary.			
Station 8	Suit and Boot	8. Rinse off decon solution using copious amounts of water. Repeat as many times as necessary.			
Station 9	Tank Change	9. If an air tank change is desired, this is the last step of the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers donned and joints taped. Worker returns to duty.	Station 2	OG, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and fully-encapsulating suit with decon solution or detergent water. Rinse off using copious amounts of water.
Station 10	Safety Boot Removal	10. Remove safety boots and deposit in container with plastic liner.	Station 3	OB and Glove Removal	3. Removal outer boots and gloves. Deposit in container with plastic liner.
Station 11	Fully Encapsulating Suit and Hard Hat Removal	11. Fully encapsulated suit is removed with assistance of a helper and laid out on a drop cloth or hung up. Hard hat is removed. Hot weather rest station may be set up within this area for personnel returning to the site.	Station 4	Tank Change	4. If worker leaves exclusion zone to change air tank, this is the last step of the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers donned and joints taped. Worker returns to duty.
Station 12	SCBA Backpack Removal	12. While still wearing facepiece, remove backpack and place on table. Disconnect hose from regulator valve and proceed to next station.	Station 5	Boot, Gloves, and OG Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in container with plastic liner.
Station 13	Inner Glove Wash	13. Wash with decon solution that will not harm the skin. Repeat as many times as necessary.	Station 6	SCBA Removal	6. SCBA backpack and face piece is removed. Avoid touching face with fingers. SCBA is deposited on plastic sheets.
Station 14	Inner Glove Rinse	14. Rinse inner gloves with water. Repeat as many times as necessary.	Station 7	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.

OG = Outer Garment OB = Outer Boot

Maximum Measures for Level B Decontamination

Station 1	Segregated Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.	Station 18	Field Wash	18. Shower if highly toxic, skin corrosive or skin absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.
Station 2	Boot Cover / Glove Wash	2. Scrub outer boot covers and gloves with decon solution or detergent and water.	Station 19	Redress	19. Put on clean clothes.
Station 3	Boot Cover / Glove Rinse	3. Rinse off decon solution from station 2 using copious amounts of water.	Minimum Measures for Level B Decontamination		
Station 4	Tape Removal	4. Remove tape around boots and gloves and deposit in container with plastic liner.	Station 1	Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.
Station 5	Boot Cover Removal	5. Remove boot covers and deposit in container with plastic liner.			
Station 6	Outer Glove Removal	6. Remove outer gloves and deposit in container with plastic liner.			
Station 7	Suit and Safety Boot Wash	7. Wash chemical resistant splash suit, SCBA, gloves and safety boots. Scrub with long handle scrub brush and decon solution. Wrap SCBA regulator (if belt mounted type) with plastic to keep out of water. Wash back pack assembly with sponges or cloth.	Station 2	OG, Boots, Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical resistant splash suit with decon solution or detergent water. Rinse off using copious amounts of water.
Station 8	Suit, SCBA, Boot and Glove Rinse	8. Rinse off decon solution using copious amounts of water.	Station 3	Outer Boot and Glove Removal	3. Removal outer boots and gloves. Deposit in container with plastic liner.
Station 9	Tank Change	9. If worker leaves exclusion zone to change air tank, this is the last step of the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers donned and joints taped. Worker returns to duty.	Station 4	Tank Change	4. If worker leaves exclusion zone to change air tank, this is the last step of the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers donned and joints taped. Worker returns to duty.
Station 10	Safety Boot Removal	10. Remove safety boots and deposit in container with plastic liner.			
Station 11	SCBA Backpack Removal	11. While still wearing face piece, remove backpack and place on table. Disconnect hose from regulator valve.	Station 5	Boot, Gloves and OG Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in container with plastic liner.
Station 12	Splash Suit Removal	12. With assistance of helper, remove splash suit. Deposit in container with plastic liner.	Station 6	SCBA Removal	6. SCBA backpack and face piece is removed. Avoid touching face with fingers. SCBA is deposited on plastic sheets.
Station 13	Inner Glove Wash	13. Wash inner gloves with decon solution.			
Station 14	Inner Glove Rinse	14. Rinse inner gloves with water.	Station 7	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.
Station 15	Face Piece Removal	15. Remove face piece. Deposit in container with plastic liner. Avoid touching face with fingers.	OG = Outer Garment		
Station 16	Inner Glove Removal	16. Remove inner gloves and deposit in container with plastic liner.			
Station 17	Inner Clothing Removal	17. Remove inner clothing. Place in container with plastic liner. Do not wear inner clothing off-site since there is a possibility that small amounts of contaminants might have been transferred in removing the fully-encapsulated suit.			

Maximum Measures for Level C Decontamination			Minimum Measures for Level C Decontamination		
Station 1	Segregated Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.	Station 1	Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.
Station 2	Boot Cover / Glove Wash	2. Scrub outer boot covers and gloves with decon solution or detergent and water.	Station 2	OG, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical resistant splash suit with decon solution or detergent water. Rinse off using copious amounts of water.
Station 3	Boot Cover / Glove Rinse	3. Rinse off decon solution from station 2 using copious amounts of water.			
Station 4	Tape Removal	4. Remove tape around boots and gloves and deposit in container with plastic liner.	Station 3	OB and Glove Removal	3. Removal outer boots and gloves. Deposit in container with plastic liner.
Station 5	Boot Cover Removal	5. Remove boot covers and deposit in container with plastic liner.	Station 4	Canister or Mask Change	4. If worker leaves exclusion zone to change canister (or mask), this is the last step of the decontamination procedure. Worker's canister (or mask) is exchanged, new outer gloves and boot covers donned and joints taped. Worker returns to duty.
Station 6	Outer Glove Removal	6. Remove outer gloves and deposit in container with plastic liner.			
Station 7	Suit and Boot Wash	7. Wash splash suit, gloves and safety boots. Scrub with long handle scrub brush and decon solution.			
Station 8	Suit, Boot and Glove Rinse	8. Rinse off decon solution using copious amounts of water.	Station 5	Boot, Gloves and OG	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in container with plastic liner.
Station 9	Canister or Mask Change	9. If worker leaves exclusion zone to change canister (or mask), this is the last step of the decontamination procedure. Worker's canister (or mask) is exchanged, new outer gloves and boot covers donned and joints taped. Worker returns to duty.	Station 6	Face Piece Removal	6. Face piece is removed. Avoid touching face with fingers. Face piece is deposited on plastic sheet.
Station 10	Safety Boot Removal	10. Remove safety boots and deposit in container with plastic liner.	Station 7	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.
Station 11	Splash Suit Removal	11. With assistance of helper, remove splash suit. Deposit in container with plastic liner.	OG = Outer Garment OB = Outer Boot		
Station 12	Inner Glove Wash	12. Wash inner gloves with decon solution.			
Station 13	Inner Glove Rinse	13. Rinse inner gloves with water.			
Station 14	Face Piece Removal	14. Remove face piece. Deposit in container with plastic liner. Avoid touching face with fingers.			
Station 15	Inner Glove Removal	15. Remove inner gloves and deposit in container with plastic liner.			
Station 16	Inner Clothing Removal	16. Remove inner clothing soaked with perspiration and place in container with plastic liner. Do not wear inner clothing off-site since there is a possibility that small amounts of contaminants might have been transferred in removing the fully-encapsulated suit.			
Station 17	Field Wash	17. Shower if highly toxic, skin corrosive or skin absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.			
Station 18	Redress	18. Put on clean clothes.			

Minimum Measures for Level D Decontamination			Containment and Disposal Method
Station 1	Equipment Drop	1. Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up in this area.	The decontamination rinsate will be collected, packaged in drums and temporarily stored at the site. After analytical results are available, the waste will be profiled and transported under appropriate documentation for disposal in accordance with applicable law and regulations. The PPE will be collected and bagged for disposal as a solid waste. If spills should occur, prompt cleanup with dedicated equipment from onsite spill response inventory will be used.
Station 2	OG, Boots, Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical resistant splash suit with decon solution or detergent water. Rinse off using copious amounts of water.	
Station 3	OB and Glove Removal	3. Removal outer boots and gloves. Deposit in container with plastic liner.	<p style="text-align: center;">Medical Emergency Decontamination Procedures</p> <p>The following procedures are to be used for providing emergency medical treatment to personnel sustaining injury while working in the exclusion area of the site. The procedures are to be used by site/safety personnel, emergency medical staff/ambulance crewmembers, and hospital emergency room staff ONLY when the nature of the medical emergency supersedes SOPs for chemical decontamination when exiting the exclusion area. Although specific contaminants, by nature, must be dealt with on a case-by-case basis, the following procedures generally will be followed.</p> <p style="text-align: center;">Injury Involving Potential for Contact with Contaminated Clothing and Skin</p> <p>An initial assessment of the injured person will be performed first, to determine if the employee has suffered a spinal/head injury. Potential spinal/head injuries may require some PPE to be left on the injured employee. However, emergency decontamination procedures must be used to remove as much potential contamination as possible. If the initial assessment does not provide evidence of a spinal/head injury, all protective clothing (hard hat, outer boots, and gloves) will be removed by personnel at the site before the injured person is transferred to an ambulance. This can be performed anywhere on the site although when at all possible, it should be performed in the CRZ. Contaminated protective clothing must be cut off to prevent cross contamination. Emergency clothing removal and decontamination of potentially contaminated skin expedites decontamination of the injured person in the CRZ and prevents contamination of emergency vehicles, emergency staff, and emergency room facilities. Pre-surgery preparation for the injured person would consist of normal soap and water rinsing and is conducted by EMS personnel</p>
Station 4	Boot, Gloves, OG Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in container with plastic liner.	
Station 5	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.	

OG = Outer Garment OB = Outer Boot

Sampling Equipment Decontamination
<p>All equipment will be cleaned prior to entering the Site.</p> <p>Equipment will be tripled rinse consisting of non-phosphate detergent and tap water solution, rinse with potable water, and rinse with de-ionized water. If soap and water alone cannot remove contamination, additional procedures may be used such as steam cleaning.</p>

Heavy Equipment Decontamination
<p>All equipment will be cleaned prior to entering the Site.</p> <p>All vehicles and heavy equipment used in the EZ will be decontaminated in the CRZ and inspected prior to leaving the site. A Certification of Decontamination form will be included in the daily safety log. All vehicles and equipment will be decontaminated according to the procedures described below:</p> <p>Vehicles and heavy equipment contaminated with Contaminates of Concern (COCs) from the site excavation activities will be placed on a decontamination pad and sprayed down with a pressure washer. This pad will be constructed as a bermed liner and equipped with a pump and suitable container for waste water generated from the equipment decontamination process. Soils and fines that cannot be pumped will be shoveled from the liner following spraying down of vehicles and equipment and transported to appropriate soil stockpiles on-site.</p> <p>Personnel engaged in decontamination will be in a rain suit, hardhat equipped with a face shield, with shin guards to protect from the blast and overspray of the pressure washer used for heavy equipment decontamination.</p>

**MAPQUEST.****Trip to 200 Abraham Flexner Way**

Louisville, KY 40202-2877

3.27 miles - about 8 minutes

Notes

To Jewish Hospital

**1391 Dixie Hwy, Louisville, KY 40210-1772**1. Start out going **NORTH** on **DIXIE HWY / US-60 BR**
toward **WOODLAND AVE.**

go 0.3 mi

2. Turn **RIGHT** onto **DUMESNIL ST.**

go 0.5 mi

3. Turn **LEFT** onto **S 15TH ST.**

go 0.0 mi

4. Turn **RIGHT** onto **W OAK ST.**

go 1.4 mi

5. Turn **LEFT** onto **S BROOK ST.**

go 1.1 mi

6. Turn **RIGHT** onto **ABRAHAM FLEXNER WAY.**

go 0.0 mi

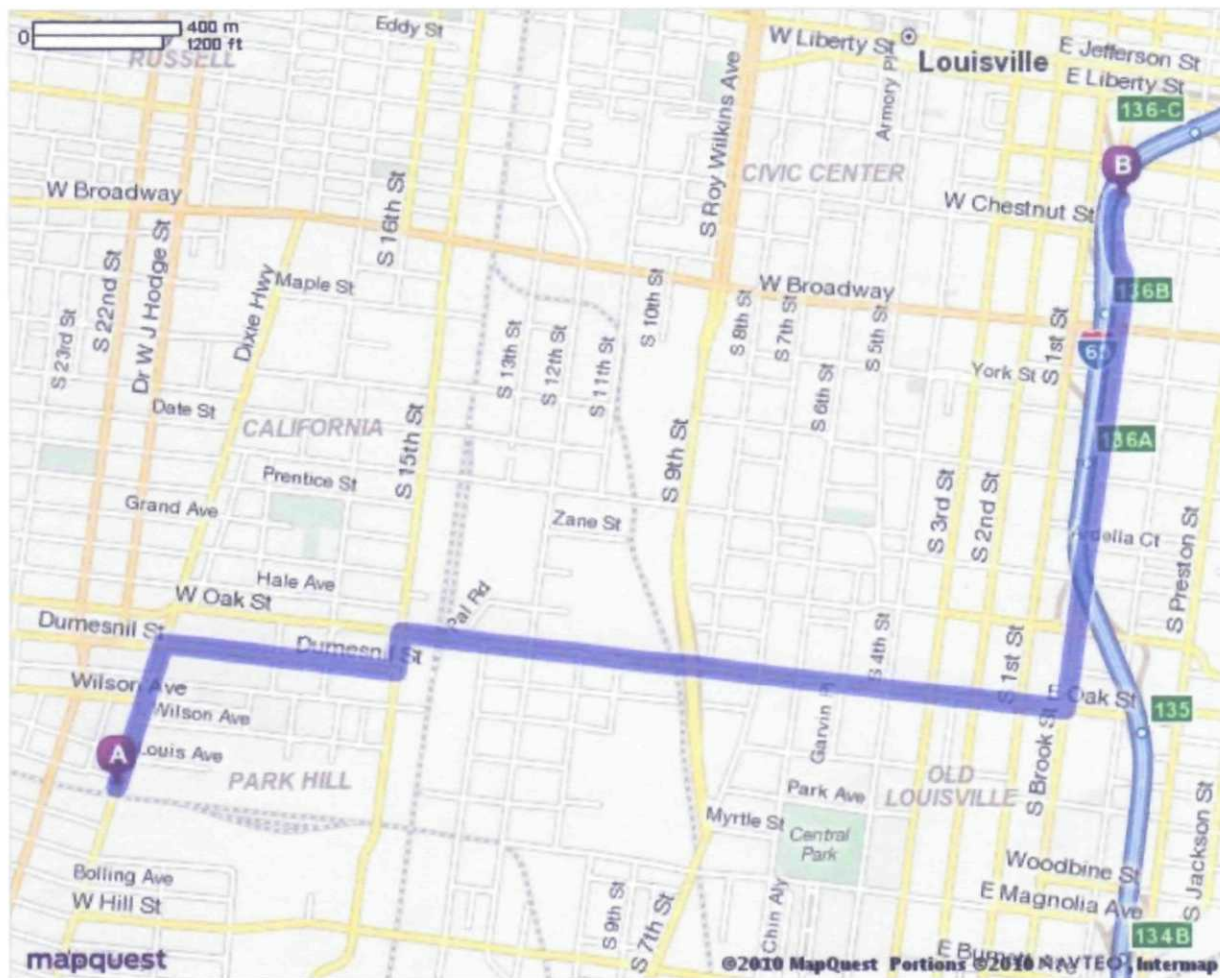
7. **200 ABRAHAM FLEXNER WAY** is on the **RIGHT.**

go 0.0 mi

**200 Abraham Flexner Way, Louisville, KY 40202-2877**

Total Travel Estimate : 3.27 miles - about 8 minutes

Route Map [Hide](#)



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