

SITE HEALTH AND SAFETY PLAN

A. General Information

Site Name Mohawk-Karastan Plant ID # NCD TBA

Location 2007 Dickinson Ave., Greenville, NC

Proposed Date of Investigation 8/19/08 to 9/19/08

Date of Briefing 8/13/08

Date of Debriefing 9/22/08

Nature of Visit (check one): On-Site Reconnaissance X
Off-Site Reconnaissance
Sampling
Sampling Overview
Remediation Overview

Health Department Official Contacted Lauren James for Ernie Nichols

Date of Contact 8/12/08

Site Investigation Team: All site personnel have read the Site Health and Safety Plan and are familiar with its provisions.

<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1 <u>Ginny Henderson</u>	<u>team leader, recon</u>	
Team 1 <u>Sue Robbins</u>	<u>reconnaissance</u>	<u>S. Robbins</u>

Plan Preparation:

Prepared By: David Lilley, Industrial Hygiene Consultant

Reviewed By: Jack Butler, Superfund Section Chief 

B. SITE/WASTE CHARACTERISTICS

Waste Type(s) Liquid Solid Sludge Gas Vapor
 Characteristics Corrosive Ignitable Radioactive
 Volatile Toxic Reactive Other

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	WARNING PROPERTIES	EXPOSURE LIMIT
<u>Acetic Acid</u>	<u>Odor Threshold (OT) = 0.48 ppm</u>	<u>10 ppm</u>
<u>Hydrogen Peroxide</u>	<u>OT = NA</u>	<u>1 ppm</u>
<u>Sodium Hydroxide</u>	<u>OT = NA</u>	<u>2 mg/m³</u>
<u>Trichloroethylene</u>	<u>OT = 28 ppm</u>	<u>10 ppm</u>
<u>Formaldehyde</u>	<u>OT = 0.83 ppm Ceiling = 0.3 ppm</u>	
<u>Petroleum</u>	<u>OT = varies</u>	<u>NA</u>

UNDERGROUND UTILITIES CHECKLIST

<u>Utility</u>	<u>Locator/Contact Person</u>	<u>Phone #</u>	<u>Date of Location</u>
Power			
Telephone			
Gas			
Water			
Sewer			

Call made by:

ID # NCD TBA

Facility Description: Size unknown Buildings yes
Disposal Methods Being Investigated unknown

Unusual Features on Site (dike integrity, power lines, terrain, etc.):
None known

History of the Site: The site is a currently used to manufacture carpet.

C. HAZARD EVALUATION

The site can be toured in level D protection. Chemically resistant, knee length boots will be worn in areas of potential surface soil contamination.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? yes
Perimeter Identified? no
Command Post Identified? no
Zones of Contamination Identified? no
Personal Protective Equipment/Level of Protection: C X D

Modifications

Location of Nearest Phone: nearby residences

Hospital (Address and Phone Number)

Pitt County Memorial Hospital, 2100 Stantonsburg Road, Greenville, NC
(252) 816-4100

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital see next page

PREVAILING WEATHER CONDITIONS AND FORECAST

EQUIPMENT CHECKLIST

- | | |
|---|---|
| <u> </u> Air purifying respirator | <u> X </u> First Aid Kit |
| <u> </u> Cartridges for respirator | <u> X </u> 3 gal. Deionized H2O |
| <u> </u> Eye Wash Unit | <u> X </u> Rain suit |
| <u> </u> HNU | <u> X </u> Gloves (<u>PE/PVC/nitrile/cloth</u>) |
| <u> </u> OVA | <u> X </u> <u>Boots/Boot Covers</u> |
| <u> </u> Explosimeter | <u> X </u> Coveralls (<u>tyvek/saranex</u>) |
| <u> </u> Radiation Monitor | <u> X </u> Eye Protection (goggles/shield) |
| <u> X </u> Decontamination
Materials | <u> X </u> Hard Hat |

STATE POISON CONTROL CENTER
1-800-848-6946

North Carolina OSHA
1-800-LABOR-NC

TO BE COMPLETED BY PROJECT MANAGER

PROJECT MANAGER: Ginny Henderson

PROJECT: Mohawk-Karastan

INVESTIGATION DATE: 8/19/08 to 9/19/08

RECONNAISSANCE X SAMPLING VISIT _____ REMEDIATION/SAMPLING OVERVIEW

Respirator Worn By

Approximate Time in Respirator

Air Monitoring Data

PID: (circle one) Mini Rae, HNU

Serial Number _____

Calibration Reading _____

Notes _____

OVA

Serial Number _____

Notes _____

CGI/Oxygen Meter

Serial Number _____

Calibration Reading _____

Notes _____

Radiation Meter

Serial Number _____

Notes _____

Were there any injuries? NO If yes, explain:

Signature





Mohawk-Karastan Plant
Hospital Route

Visit your Ford or Lincoln Mercury Dealership for service on the go and save.

THE WORKS \$39.95 OR LESS

FUEL SAVER PACKAGE

See participating dealership for details through 8/31/08. [Get Details](#)

- Motorcraft® Oil and filter change
- Inspect brake system • Rotate four tires • Test battery and more

GENUINE PARTS & SERVICE

COME IN. KEEP GOING.

A: 2007 Dickinson Ave, Greenville, NC 27834-3858

- | | | |
|--|---|--------|
| | 1: Start out going SOUTHWEST on DICKINSON AVE toward LINE AVE. | 0.3 mi |
| | 2: Turn RIGHT onto S MEMORIAL DR/US-13/NC-11/NC-43/NC-903. | 0.6 mi |
| | 3: Turn SHARP LEFT onto STANTONSBURG RD. | 0.4 mi |
| | 4: End at 2100 Stantonsburg Rd Greenville, NC 27834-2818 | |

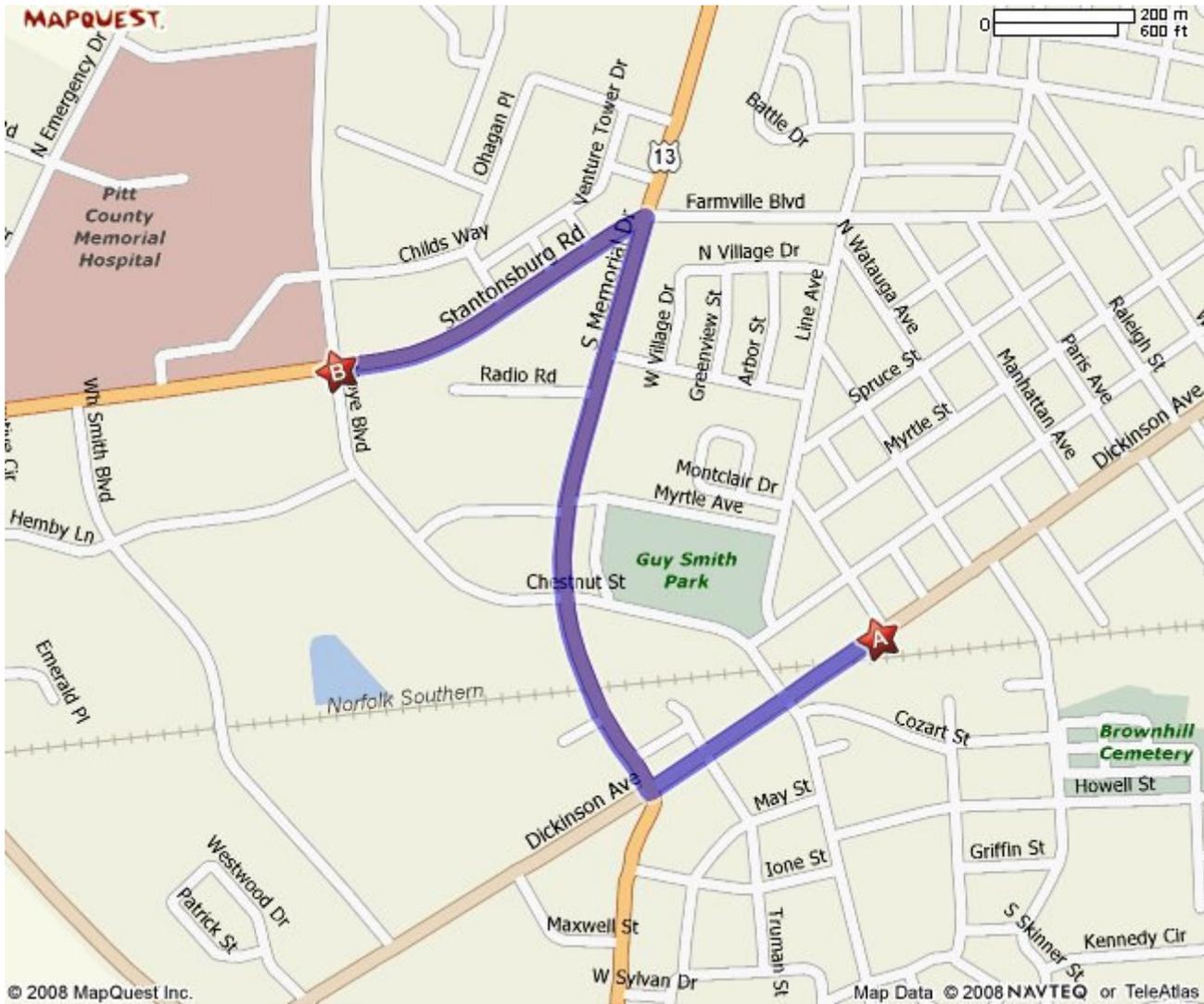
Estimated Time: 3 minutes Estimated Distance: 1.33 miles

B: 2100 Stantonsburg Rd, Greenville, NC 27834-2818

Total Time: 3 minutes Total Distance: 1.33 miles



Get MapQuest directions and FREE 411 by calling **1-800-FREE411** (1-800-373-3411).



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EXHIBIT 8

Section No. 4.0
Revision No. 12
Date: 8-25-05
Page 2 of 2



KEY RISK MANAGEMENT SERVICES, INC.
ATTN: STATE UNIT
P.O. BOX 49129
GREENSBORO, NC 27419



WORKERS' COMPENSATION MEDICAL AUTHORIZATION

Name of Employee/Patient: Last		First	
Date of Injury:	Social Security Number: - -		
Name of Employer/Company:		STATE OF NORTH CAROLINA	
Employer Authorization:		Doctor To Be Seen:	

Employer: Complete this form, and give it to the injured employee before a doctor is seen.

Employee: Show this form to the doctor.

Physician: When a referral is necessary - use CompCare Physicians and call 1-800-366-1511, to let the state agency claims representative know that the patient is being referred.

SEND BILL DIRECTLY TO KEY RISK MANAGEMENT SERVICES, INC.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Acetic Acid

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CH₃COOH</u>	<u>1</u>
Natural Physical State at 25oC <u>liquid or solid</u>	<u>2</u>
Vapor Pressure <u>11</u> mm Hg at 20EC	<u>2</u>
Melting Point <u>62 EF/EC</u> Boiling Point <u>244 EF/EC</u>	<u>2</u>
Flash Point (open or closed cup) <u>102EC/EF</u>	<u>2</u>
Solubility - H ₂ O <u>Miscible</u> Other	<u>2</u>

Physical Features: (odor, color, etc.) Colorless liquid or solid with a strong vinegar-like odor, IP = 10.66 eV(2)

II. TOXICOLOGICAL DATA

Standards: 10 ppm(3) TLV 10 ppm(4) PEL
1000 ppm(2) IDLH

Routes of Exposure: Inhalation, Ingestion, Skin/Eye contact

Acute/Chronic Symptoms: Conjunctives, tearing, irritation of nose and throat, swelling of throat, chronic bronchitis, burns eyes and skin, skin sensitizier, dental erosion, black skin (2)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash

Chemical Name: Acetic acid

III. HAZARDOUS CHARACTERISTICS Reference

A. Combustibility Yes X No 2

Toxic by-products _____

B. Flammability LEL 4.0% UEL 19.9% at 200 EF 2

C. Reactivity Hazard Incompatible with strong oxidizers, 2 chromic acid, sodium peroxide, nitric acid, strong caustics, corrosive to metals

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard Exposure Rate

Background	yes/no	_____
Alpha particles	yes/no	_____
Beta particles	yes/no	_____
Gamma radiation	yes/no	_____

IV. REFERENCES

- (1) The Merck Index, 11th Edition, 1989
- (2) Pocket Guide to Chemical Hazards, NIOSH, 1990
- (3) Threshold Limit Values and Biological Exposure Indices, 2007, ACGIH
- (4) 29 CFR 1910.1000

Chemical Name: Formaldehyde

I. PHYSICAL/CHEMICAL PROPERTIES Reference

Chemical Formula CH₂O 1,2

Natural Physical State at 25°C gas 1,2

Vapor Pressure -- mm Hg at 20°C

Melting Point --- °C Boiling Point -19.5 °C 2

Flash Point (open or closed cup) -118 °C 2

Solubility - H₂O miscible 1,2

Other ether and alcohol

Physical Features: (odor, color, etc.) Pungent suffocating odor
IP = 10.88 eV

II. TOXICOLOGICAL DATA

ceiling =
Standards: 0.3ppm(3) TLV 0.75 ppm(4) PEL

potential carcinogen IDLH 5

Routes of Exposure: Inhalation, Eye contact

Acute/Chronic Symptoms: Irritation of eyes, nose, throat; tearing; coughing; bronchial spasms; respiratory tract irritation; skin problems; nausea; vomiting; loss of consciousness; suspect human carcinogen (5)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Fuel Oil

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula _____	_____
Natural Physical State at 25EC _____	_____
Vapor Pressure _____ mm Hg at 20EC	_____
Melting Point ____oF/oC Boiling Point ____EF/EC	_____
Flash Point (open or closed cup) >100	<u>EC/EF</u> <u>1</u>
Solubility - H ₂ O _____	_____
Other _____	_____

Physical Features: (odor, color, etc.) Can be a distilled fraction of petroleum, a residuum from refinery operations or a blend. No. 2 is a straight run or cracked distillate. (1)

II. TOXICOLOGICAL DATA

Standards: none given TLV none given PEL none given IDLH

Routes of Exposure: Inhalation, skin

Acute/Chronic Symptoms:

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Fuel oil

III. HAZARDOUS CHARACTERISTICS Reference

A. Combustibility Yes X No 1

Toxic by-products None given

B. Flammability LEL _____ UEL _____

C. Reactivity Hazard _____

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard Exposure Rate

Background	yes/ <u>no</u>	_____	_____
Alpha particles	yes/ <u>no</u>	_____	_____
Beta particles	yes/ <u>no</u>	_____	_____
Gamma radiation	yes/ <u>no</u>	_____	_____

IV. REFERENCES

1. The Condensed Chemical Dictionary, 1989

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Hydrogen peroxide

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>H2 O2</u>	<u>1</u>
Natural Physical State at 25oC <u>liquid</u>	<u>2</u>
Vapor Pressure <u>5</u> mm Hg at 86EF	<u>2</u>
Melting Point <u>12</u> EF/EC Boiling Point <u>286</u> EF/EC <u>2</u>	
Flash Point (open or closed cup) <u>--</u> C/EF	<u>2</u>
Solubility - H ₂ O <u>Miscible</u>	<u>2</u>
Other <u>Oxidizable materials</u>	<u>2</u>

Physical Features: (odor, color, etc.) Colorless liquid with a slightly sharp odor, IP = 10.53 eV(2)

II. TOXICOLOGICAL DATA

Standards: 1 ppm (3) TLV 1 ppm (4) PEL

75 ppm(2) IDLH

Routes of Exposure: Inhalation, Ingestion, skin and eye contact

Acute/Chronic Symptoms: Irritation of the nose, throat, and eyes, ulcers of the cornea of the eye, redness of skin, bleaching of hair (2)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Sodium Hydroxide

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>NaOH</u>	<u>1</u>
Natural Physical State at 25EC <u>solid</u>	<u>1</u>
Vapor Pressure _____ mm Hg at 20EC	_____
Melting Point <u>318</u> EF/EC Boiling Point _____ F/EC	<u>1</u>
Flash Point (open or closed cup) <u>noncombustible</u> EC/EF	<u>2</u>
Solubility - H ₂ O <u>soluble</u>	<u>1</u>
Other abs alcohol, methanol, glycerol _____	<u>1</u>

Physical Features: (odor, color, etc.) Fused solid with crystalline fracture. (1)

II. TOXICOLOGICAL DATA

Standards: Ceiling = 2 mg/m³ (3) TLV Ceiling = 2 mg/m³ (4) PEL unknown (5) IDLH

Routes of Exposure: Inhalation, Ingestion, Skin and/or Eye contact

Acute/Chronic Symptoms: Irritation of the eyes, skin, and mucous membranes, lung problems, skin burns, tempory loss of hair (5)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Sodium Hydroxide

III. HAZARDOUS CHARACTERISTICS		Reference
A.	Combustibility Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Toxic by-products <input type="checkbox"/>	<u>2</u>
B.	Flammability LEL _____ UEL _____	
C.	Reactivity Hazard <u>Water, acids, flammable Liquids, organic halogens, corrosive to metals</u>	<u>2</u>
D.	Corrosivity Hazard <u>yes/no</u> pH: _____ Neutralizing agent: _____	<u>2</u>
E.	Radioactive Hazard	Exposure Rate
	Background yes/no	_____
	Alpha particles yes/no	_____
	Beta particles yes/no	_____
	Gamma radiation yes/no	_____

IV. REFERENCES

1. The Merck Index, 11th Edition, 1989.
2. NIOSH Pocket Guide to Chemical Hazards, 1990
3. Threshold Limit Values and Biological Exposure Indices for 2007, ACGIH
4. CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Trichloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

Reference

Chemical Formula C2 HC13 1
Natural Physical State at 25EC liquid 1
Vapor Pressure 58 mm Hg at 20EC 2
Melting Point -99 EF/EC Boiling Point 189 EF/EC 2
Flash Point (open or closed cup) 32EC/EF 3
Solubility - H²O 0.1% at 77EF 2
Other Ether, alcohol, chloroform 1

Physical Features: (odor, color, etc.) Colorless liquid
(unless dyed) with a sweet odor like chloroform 1P = 9.45 eV (2)
OVA Relative Response = 70%

II. TOXICOLOGICAL DATA

potential
human

Standards: 10 ppm (4) TLV 50 ppm (5) PEL carcinogen(2) IDLH

Routes of Exposure: Inhalation, ingestion, skin and/or eye
contact (2)

Acute/Chronic Symptoms: Acute: Headache, vertigo, visual
disturbance, tremors, drowsiness, nausea, vomiting, eye
irritation, dermatitis, irregular heartbeat, skin irritation;
chronic: carcinogenic (2)

First Aid: Inhalation: artificial respiration; Ingestion: get
medical attention immediately; Eye contact: irrigate
immediately; Skin contact: soap and water wash immediately

