

**NORTH CAROLINA
UNDERGROUND STORAGE TANK SECTION
RISK, RANK AND ABATEMENT RATING FORM**

Incident Name: <u>The Pantan # 832</u>	Region: <u>Washington</u>	SCORE	L75R
Incident Number: <u>31953</u>	County: <u>Pitt</u>		
Date: <u>2/25/09</u>	Ranking Performed by: <u>B. Sandow</u>		

Note: a new ranking form must be completed whenever site conditions may have changed

SECTION I. Risk Classification (Check all that apply)

1. High Risk

- A. An existing water supply well, including one used for non-drinking purposes, has been contaminated by the release; _____
- B. A water supply well used for drinking water is located within 1,000 feet of the source area of a confirmed release; _____
- C. A water supply well not used for drinking water is located within 250 feet of the source area of a confirmed release; _____
- D. The groundwater within 500 feet of the source area of a confirmed release has the potential for future use in that there is no source of water supply other than the groundwater; _____
- E. There exists a serious threat of explosion due to the accumulation of vapors in a confined space, as a result of the release; or _____
- F. There exists an imminent danger to public health, public safety or the environment, as a result of the release. _____

2. Intermediate Risk

- A. Surface water is located within 500 feet of the source area of a confirmed release and the maximum groundwater contaminant concentration exceeds the applicable surface water quality standard and criteria found in 15A NCAC 2B .0200 by a factor of 10; _____
- B. In the Coastal Plain Physiographic Province (as designated on a map entitled Geologic Map of North Carolina published by the Department in 1985), the source area of a confirmed release is located where there is recharge to an unconfined or semi-confined deeper aquifer which the Department determines is being used or may be used as a source of drinking water; _____ ✓
- C. The source area of a confirmed release is located within a designated wellhead protection area, as defined in 42 USC 300h-7(e); _____
- D. The levels of groundwater contamination for any contaminant (except ethylene dibromide, benzene and the aliphatic and aromatic carbon fraction classes) exceed 50 percent of the solubility of the contaminant at 25 degrees Celsius or 1,000 times the groundwater quality standard or interim standard established in 15A NCAC 2L .0202, whichever is lower (these levels have been termed "gross contamination levels"); or _____
- E. The levels of groundwater contamination for ethylene dibromide or benzene exceed 1,000 times the federal drinking water standard set out in 40 CFR 141 (these levels have also been termed "gross contamination levels"). _____

3. Low Risk

- A. A low risk classification means that the risk posed by a release does not meet any of the high or intermediate risk criteria or, based on site-specific information received by the Department, the release does not pose a significant risk. _____ ✓

SECTION I. Risk Classification

Low

Soil

A. Land Use Choose required soil clean-up level then apply points only if soil contamination exceeds requirement

- No Risk Data
- Soil to GW
- Residential
- Industrial/Commercial

*Soil exceeds
Soil to GW*

1. Maximum soil contaminant concentration exceeds "Soil to Groundwater" but below "Residential" exposure concentration; award 5 points total
OR
2. Maximum soil contaminant concentration exceeds "Residential" but is below the "Industrial/Commercial" exposure concentration; award 10 points total
OR
3. Maximum soil contaminant concentration exceeds the "Industrial/Commercial" exposure concentration or no risk-based data available; award 15 points total

Air

A. Vapor Phase Exposure

1. Contaminant vapors detected in inhabitable building(s), but levels are below 20% of the lower explosive limit and health concern levels; award 20 points total
2. Contaminant vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.) but levels are below 20% of the lower explosive limit; award 5 points total

3. HYDROGEOLOGY AND LITHOLOGY

- A. Bedrock - contamination is located in, on or within five feet of bedrock; award 20 points
- B. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or within twenty feet of land surface; award 10 points
- C. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the discharge, release or known extent of contamination and the nearest down gradient drinking water supply; award 5 points total

10

5

4. ENVIRONMENTAL VULNERABILITY ASSESSMENT

Contamination Concentrations

A. Existing Groundwater Quality - The worst case monitor or supply well, assign only one

1. At less than 10 times the 2L groundwater standards; award 5 points
OR
2. Between 10 and 100 times the 2L groundwater standards; award 20 points
OR
3. Greater than 100 times the 2L groundwater standards; award 40 points
OR
4. Free Product; award 80 points

40

Contaminant Types

A. Predominant Contamination Type

1. Low boiling point petroleum products (gasoline, aviation fuel); award 20 points
2. High boiling point petroleum products (fuel oil, kerosene, diesel fuel or similar products); award 0 points

20

SECTION II. Release Ranking

SECTION III. Source Abatement Assignment (Award Points and Assign Letter)

A. Abated or Unabated Contaminant Source

1. Emergency Situation, Assign Letter E (from Section II.1.)
OR
2. UST remains in active use and continues to discharge into the environment; Award 100 points and assign Letter A
OR
3. UST release has been abated. However, contaminated soil continues to release product or contaminants into the environment; Award 50 points and assign Letter D
OR
4. UST release has been abated. Contaminated soil has been removed or remediated; Award 0 points and assign Letter R

*Soil below
Residential*

-O-R
-O-R

SECTION III. Source Abatement Assignment

SECTION IV. Risk, Rank and Abatement Score

Total: Risk, Rank and Abatement Score

(Insert risk letter from Section I, total all points from Section II and III, and insert abatement letter from Section III)

Upon completion transfer final score to box on page 1.

L75R
(e.g H750D)