

FEBRUARY 2005
VAPOR INTRUSION SAMPLING REPORT

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being operated at the time of the site visit. There were only slight odors of plastics noted at some work areas but no odors of cleaning solvents, with the exception of the restrooms. Housekeeping is a high priority at this plant. All work areas were extremely clean with no debris, tin cans, or

waste materials noted anywhere throughout the facility

Floor drains or other potential conduits for subsurface vapors were identified in the following areas:

- Building 2 restrooms (two restrooms on the office side, two restrooms on the production side)
– one floor drain in each bathroom plus one shower drain in the women's restroom on the

ground open for airflow. Small quantities of cleaning products are stored here (e.g. Goo Gone)

Conditioned air is provided to the maintenance office and the lab. The lab has two floor drains located in the center of the room. A wall-mounted exhaust fan is located in the product storage area. The product storage room contains 5-gallon paint containers, spray paint cans, roof coatings, contact cement, and mastics, all arranged very neatly with no signs of spillage. The outside door of the product storage room is kept open during business hours. A large floor drain is located in the center of the harness board room; and the archive room has one floor drain. A forklift is parked in an outside chemical storage area (behind a chain-link fence) located adjacent to Building 1 (southeast corner).

An exterior covered walkway is present between Buildings 3 and 4. Benches are located along the

are summarized Table 1.

Material Safety Data Sheet Review

A review of material safety data sheets (MSDS) was performed for chemicals currently used at the

NPI 6. The objective of this review was to identify potential areas of concern.

10/10/02

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weather conditions at the time of sampling.

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following dilution and re-analysis. For conservativeness, the original e-qualified concentrations are included in the tables.

6. DATA INTERPRETATION

[REDACTED]

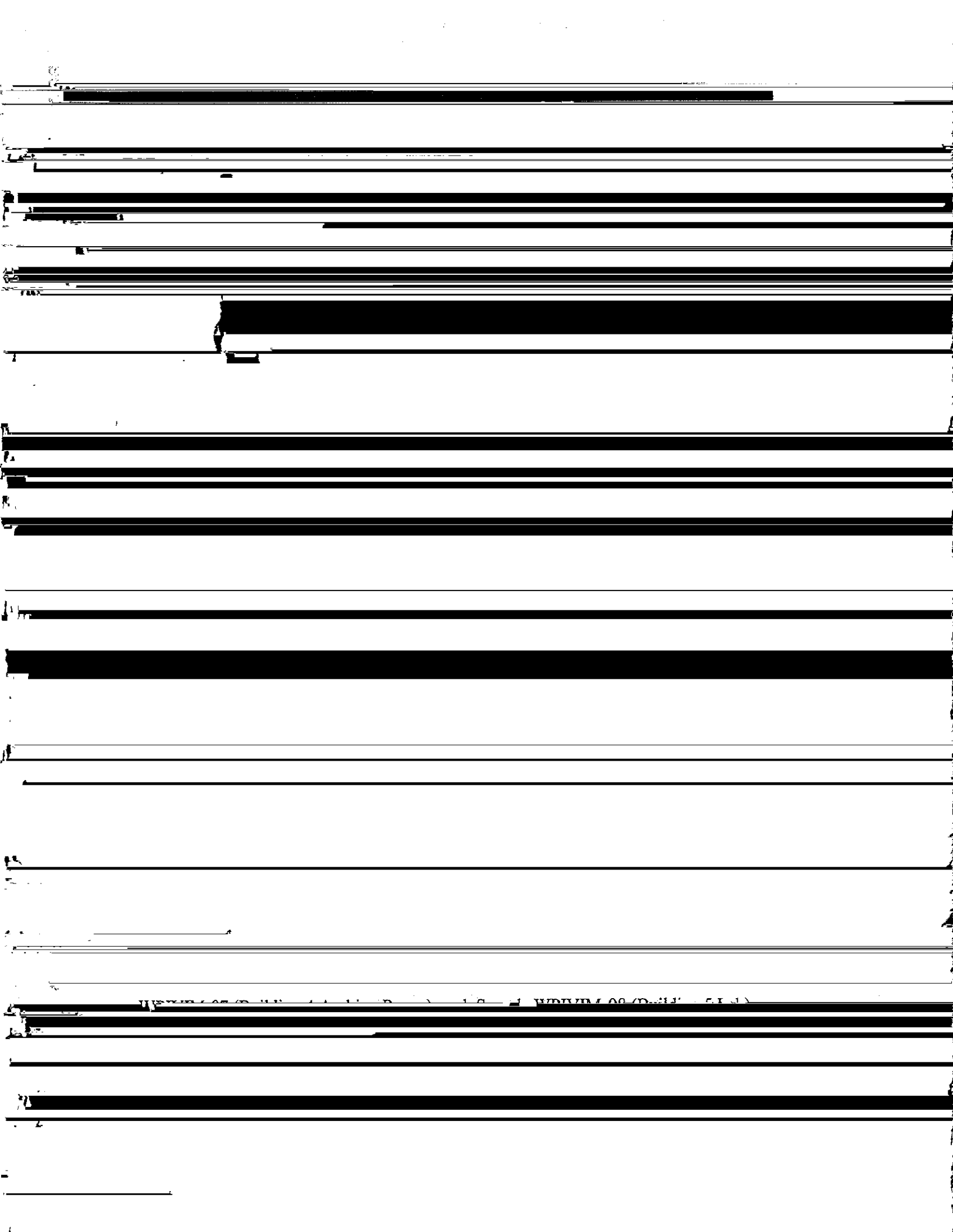
- 1,4-Dichlorobenzene typically enters the environment when it is used in mothballs and in toilet-deodorizer blocks. It is not very soluble in water (ATSDR, 2005).

1,4-Dichlorobenzene was not detected in the near surface groundwater the most likely source

for vapor intrusion.

- Although the concentrations varied among the different sampling locations, all of the compounds detected in outside air were detected within indoor air.
- A large number of the compounds detected in ambient air were also found to be present in materials observed to be used at the facility or identified in MSDS (Table 2).

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Table 1
Direct-Reading Instrument Results

Tallevast, Florida

Building #	Room/Location	FID readings ppm	Air Velocity (fpm)	Comments
2	Receiving room	7.8	2	Door closed, no activity

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Receiving inspection	7.4	0	2 workers present
Harness assembly area	6.3-8.4	0-1	Several workers present
Office hallway	6-7	0 vent-400 +	

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Table 2
MSDS Review for Chlorinated Compound Use
Former American Beryllium Company
Tallevast, Florida

Product Name	Chemical Composition
FK1718 aerosol	43.1% chlorofluoromethane 39.8% aliphatic HC

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Table -3
Soil Gas Sample Locations With TCE and PCE Detection

Sampling Location	TCE (ppbv)	PCE (ppbv)	Comments
SGS-3	0.7	ND	East of Building 5
SGS-4	0.59	5.8	East of Building 2
SGS-5	0.5	2.5	Center of parking lot
SGS-6	0.5U	4.1	Near 17 th Street

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Table 5
Vapor Intrusion Sampling Information
Former American Beryllium Company
Tallevast, Florida

Building	Sample Identification	SUMMA Canister Number	Location	Sample Start Time (01/07/2005)	Sample Stop Time (01/08/2005)	Comments
Building 1	WPI-VIM-01	12455	Roof	1845	1845	Rooftop near air intake. Access to roof shut and locked.
	WPI-VIM-02	12404	Main work area.	1828	1828	Placed on ladder in center of main work area below return vent. HVAC running. Area secured.

SDR	RL	(bv)
A		
A		
00		
4		
5		
00		
0		
A		
00		
A		
A		
A		
0		
A		
A		
A		
00		

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TSDR
MRL
(ppbv)
NA
NA
20
NA
NA
3000
4
5
50
NA
1000
NA
NA
NA
600
60
80
NA
NA
NA
100

DATE 12/12/98 TIME 11:00:00

ATSDR MRL (ppbv)
20
NA
13000
4
5
50
NA
NA
NA
NA
600
80
NA

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Department of Environmental Protection
BY SOUTHWEST DISTRICT

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ATSDR MRL (ppbv)
2
2
2
2
13000
4
5
50
NA
NA
1000
NA
NA
NA
300
NA
500
80
NA
NA
NA
100