

Refuse Hideaway Deep in mtg 1/22/91

1. Groundwater Monitoring

- Preliminary results based on field sampling shows contamination at wells: P-40 + P-31
- This is approximately the extent of the plume that was expected based on the private home contamination.
- Wells north, south, east + west did not detect contamination during field testing. The plume appears to be moving southwest from the landfill.
- We do not have a complete water table map at this time to predict the direction of groundwater flow beyond well P-40.
- Water table wells near Black Earth Creek are clean, apparently indicating that contaminants are NOT entering the creek in this area.

2. Gas + Leachate Extraction System

- All ^{extraction} wells have been installed in the landfill
- 3 wells in the west central area of site have leachate standing in the wells. When the piping system is complete, the leachate in these wells will be pumped to the leachate holding tank + eventually treated at a wastewater treatment plant.
- Some leachate was pumped from the 3 wells for testing purposes and hauled by tanker truck to the holding tank.
- We expect that the other 10 extraction wells will remain "dry" (ie, contain no leachate).
- There are fairly high gas pressures within the landfill. The extraction wells have been capped to reduce odors near the site. Odor should be almost entirely eliminated when the extraction system is functional.

July 8, 1992

Refuse Hideaway Landfill Public Meeting Notes

Mr. Rounds refused to allow DNR to put a monitoring well on his property. His wells have not been tested in the past year and he questions whether this has been done out of spite.

Why wasn't the monitoring well (P-30) tested right away after there was a sign of contamination?

How will blasting affect the landfill? Will it cause more fissures or open additional channels to contamination?

Could the DNR work with the county to stop the blasting?

Why wasn't the new private well pumped to purge contamination from it?

Is deep contamination a threat to the City of Middleton's wells?

Doesn't PCE break down to vinyl chloride?

How will the combination of chemicals affect the Stoppleworths'?

Could their level of exposure to chemicals be compared to a strong whiff of paint?

Mr. Stoppleworth's son has cancer. Can this be attributed to the site?

Is there a need to test wells outside of the area that DNR is testing?

What are the additive effects of chemicals?

Were any outside factors taken into consideration when modeling was done (i.e., development, new wells, blasting)?

Refuse Hideaway Meeting May 6, 1993

Welcome

Introductions

Terry Evanson, PM
Henry Nehls-Lowe, Epi.
Colleen Hart, PM (EPA)

Logistics

Signup in back for mailing list
Having interviews this summer - feelings about site - how like
information - how often like to be informed
Presentations - 1 hour - Questions after presentations unless clarify

Information Repository at Middleton Public Library 400.

TAGs

Superfund Process

Identification - initial investigation - id site hazards and evaluate need for
action under Superfund program
Listing on NPL (list of nation's worst hazardous sites) - 40 in Wis.
RI - Gather info on problems at site
FS - Decide best way to clean up
Proposed Plan - Please Comment
Record of Decision
Design and Construct Remedy
O & M
Delete from NPL

Next: Terry with what has and will be happening at the site

Not a "fund"
- Call if you have concerns

Edna Thorsway

5:00

May 6, 1993

Can

- ? - into all design to be by public consultants
- ? - will this give time to survey RFB

yes

any environmental

- cap extraction
- gas leakage extraction system
- explosion

? - have telemetry system

yes - it calls

? - what if pipe has build up - discharge
↓
cause explosion

- need O₂ for explosion equation

? - any pressure fluctuation

- no - must react to monitor size

? - know how to ✓ if explosion

- should be gas analysis system in landfill

- the landfill is carefully monitored & controlled

there - this

? - how can ^{script} firm

? - if there is methane, possible to have flame up
have been cases of this

1.5 ft high

? - if it is not put in tank
- all this have been built up

- flow off trap limit
- control dampers (shutters)
- mixer adjustments
- low & high trap alarms

How many heard beam? - 6

? - Since explosion, is DNR alarmed? - must quarry

- will have investigated it

? - Did DNR contact Lone Co. for police report

- find out if blasting in quarry

- don't put blenders on

- should ✓ it out

- shut right off

- town relying on DNR

? - Continuing to live

- could be traffic - it's not

- must be explanation

- ✓ police report

Why Dept not pushing this?

- important for landfill?

- find out what happened

Dept done investigation - emp. ✓ flow

- resp. reported

? - is there possible to have had Dept personally do not believe it.

4/10 - something went in early in day

- disturbance of some kind

- minor air explosion

- no big hole in landfill

7 - Reason why this discussion

- Skepticism of what's going on

Can't deny something happened

ECRS would possible to have small underground explosion

↳ gas explosion

been + flame

Maybe rightly on flammable

- esp w/ moisture

First impression → LP tank

7 - Prior to install of flare

- methane deep zone out of hole

How effective is methane collection

devices on burners?

- Yes, landfill surrounded by gas pipes
Possible methane could create explosion

Nothing observable has led

- believe there was no explosion at landfill

- confidence maintained system

7 - anybody been upon landfill (flame tower)?

- happy to keep it up

John Aquilino

Landfill activities

Why moving still going on by the lake

- necessity ^{moving} of app with face of landfill
- maintenance of it

parking stores equipment on site

prep work to Del Boca

Q.A. maintaining

- not in portion of a custom from 1991 study
- additional testing

? consistency of material in pond

- water that runs off landfill

? ~~to~~

SF - Oct 14, 1992

- coop. agreement w/ EPA

? - fund \$

- what is amount \$350,000 for CA

- cost > don't know yet

? any estimates

- \$350,000 estimate

Contract by Dept.

? some problem will it be in it further

to project problem

- will review all work done

of job in cost

RIFS

Focus on cleanup costs

- ? - what is impact of the site from time?
 - doesn't affect gov
 - best in quality
 - make sure + make a bit

? - any experience on other conditions - able to clean up sites

- can contain contamination → control
 - very few total cleanups of gov actually undertaken
 - big

? - Not very encouraging - false hope that gov will be cleaned up

- New legal situation

- kinds of undeveloped land - destruction of land
 - re-appraisal → etc.

Boards are there → use those if problem

? - how many years away from ↑ property value

- Containment → so doesn't go further
 - w/in few years after action taken

PP by fall

- go to PRPs to undertake cleanup

? - has DOR set down PRPs before

- yes

- and now you have teeth → yes enforcement authority

? - where trace amounts found - why not any more
ARE

→ at detection level

- might not have been there

- but contents not uncommon

? finding WCs mostly

Jenny

Concerned w/ rad movement (contaminated movement)

Mr. Stuppworth - Dave Stearns

- in wells as early as mid-70s

- info very misleading in health sheet

? are written spec. avail for water filtration devices

→ Jenny

○ Skin Cancer

Synergistic effects of chemicals

? - any questionnaires asking families about illnesses

- things not aware of yet

- only if reason to believe there has been an exposure

Not everyone comes to these meetings

- I make people aware of it

- see if something in common

Only testing for PCBs

If higher concentration → study is to find

lower level → point where they are dangerous

VOCs - fastest moving → why focus on them
- ✓ for others

Can determine gas flow

Not all people within 360° radius is at
Same level of risk

Now tested houses at risk

- direction gas flows

Now testing 12 private wells

✓ testing on her well

2 ppm of toluene or something

Reason for monitoring wells

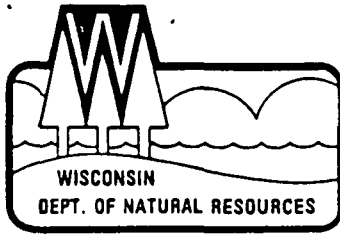
- relying on hit & miss cases

? - wherever contaminants spread

- all Fed officials say nothing wrong

? - Should put a survey out

Spent 3 yrs doing testing



George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

101 South Webster Street
Box 7921
Madison, Wisconsin 53707
TELEPHONE 608-266-2621
TELEFAX 608-267-3579
TDD 608-267-6897

**Refuse Hideaway Landfill
Superfund Site
Public Meeting
July 7, 1994
Middleton Town Hall
7:00 p.m.**

AGENDA

Introductions

Cara Norland - DNR

Refuse Hideaway Update
Future Activities

Terry Evanson - DNR

Health Concerns

Henry Nehls-Lowe - DOH

Questions & Answers

Terry Evanson, Project Manager, Wisconsin Department of Natural Resources, P. O. Box 7921, Madison, WI 53707, (608) 266-0941

Cara Norland, Community Relations Coordinator, Wisconsin Department of Natural Resources, P. O. Box 7921, Madison, WI 53707, (608) 267-0540

Henry Nehls-Lowe, Epidemiologist, Division of Health, Room 96, 1414 E. Washington Ave., Madison, WI 53707, (608) 266-3479

Mary Young, Public Health Educator, Division of Health, Room 96, 1414 E. Washington Ave., Madison, WI 53707, (608) 267-6844

Laura Evans, Project Manager, U. S. Environmental Protection Agency, 77 W. Jackson St., Chicago, IL 60604, (312) 886-0851



Printed on
Recycled
Paper

RHL

7/7/94

- meet w/ groups

Intro

26 people

Air stripper
Model
Carbon Absorption

Lenny

The large amount of Min last year affected level of leachate?

- yes

Where take leachate?

- MMSD, for treatment

Who owns land?

- John DeBeck, DNR has authority to take actions

What are water reqts for Pleasant Creek

- warm water fishing - less stringent

Water treated on site?

- yes, for these plants

What about putting clean water through the system?

- could do it

Primary - health

What is dangerous for chemicals?

" " ppb?

Will plume get bigger?

- from our observations, no

Tested for other chemicals?

- yes, metals, Derris, DDT, Pesticides

Goal of cleanup?

- to water of better than drinkable quality

Will it be cleaned up in our lifetime?

- Don't know for sure

~~Will it~~

Will DNR continue to have a role?

- yes, ^{but} role will Δ

- after ROD signed, FRPs will be asked to undertake cleanup

REFUSE HIDEAWAY LANDFILL

JULY 7, 1994
PUBLIC MEETING

OUTLINE

1. Introduction - Cara
 - a. Cara Norland, Terry Evanson - DNR
 - b. Henry Nehls-Lowe, Mary Young - Division of Health
 - c. Laura Evans - U.S. EPA (replaced Colleen Hart)
 - d. Judy Fassbender, Brian Keller - Hydro-Search, Inc.
2. Housekeeping - Cara
 - a. Sign In, Fact Sheet, Format of meeting
 - b. Questions and Answers at end. Feel free to ask for clarifications.
3. Refuse Hideaway Update - Terry
 - a. Leachate/Gas System
 1. 5 add'l leachate pumps - vol. increase from 15,000 to 30,000 gal/mo.

OVERHEAD OF SITE EXTRACTION WELLS

2. Extension of gas system at GW-5 (show on overhead). Needed to control shallow gas movement.

SLIDES OF EXCAVATION/WELL RETROFIT

- b. Groundwater Monitoring
 1. Groundwater sampling in October/May. Water quality unchanged. The 1992 model predicts that plume is at equilibrium.
 2. Groundwater elevation change. Last year's high rain fall led to increased groundwater elevations in the fall. 8 groundwater wells had water above ground level or even flowing from wells. Wells retrofit with packers to control water beneath frost line.

OVERHEAD OF WELLS RETROFIT WITH PACKERS

SLIDES OF FLOWING WELLS AND RETROFIT IN PROGRESS

4. Superfund Activities - Terry

a. Review reports submitted (**OVERHEAD**)

1. Work Plan for Conducting Remedial Investigation/Feasibility Study
2. Quality Assurance Project Technical Memorandum (QAPTM)
3. Remedial Investigation Report (Draft)
NOTE: RI covers gw, sw, soils, sediments, air pathways. Remediation focuses on gw
4. Alternative Array Document (Draft)
5. Technical Memorandum, Numerical Evaluation and Design of a Wellfield for Contaminant Capture and Groundwater Control (Draft)

- b. Redrawing of Groundwater Plume - Computer modeling and evaluation of sand and gravel/bedrock at the site leads us to believe that the groundwater plume should be constructed somewhat differently.

OVERHEAD OF REVISED GROUNDWATER PLUME

5. Possible Cleanup Options

a. Alternatives Considered - explain survey of technologies

**OVERHEAD OF SIMPLIFIED TABLE 5-1,
SCREENING OF REMEDIAL TECH.**

b. Alternatives Retained - 3 Categories

1. Landfill Cap Option

- a. Option A. No Further Action - continue all O&M and gw monitoring as now
- b. Option B. Limited Action - put deed restriction on property
- c. Option C. Cap Upgrade - add a plastic membrane over clay layer in cap

2. Groundwater Extraction, Treatment and Disposal Options

OVERHEAD OF EXTRACTION WELL LOCATION

- d. Option D. Groundwater Extraction, Treatment and Discharge to Surface Water.

OVERHEAD OF SURFACE WATER OPTIONS

1. Black Earth Creek at drainage ditch
2. Black Earth Creek at Twin Valley Road
3. Black Earth Creek at Cross Plains
4. East Fork of Pheasant Branch Creek

- e. Option D. Groundwater Extraction, Treatment and Discharge to Infiltration Gallery.

OVERHEAD OF LOCATION OF INFILTRATION GALLERY

- f. Option F. Groundwater Extraction, Treatment, and Discharge to Injection Wells.

OVERHEAD OF LOCATION OF INJECTION WELLS

Injection would help flush contaminants beneath landfill and water could be amended to encourage bioremediation.

3. Water Supply Options

- g. Option G. Supply Individual Water Treatment Units. Would treat individual home water supplies with treatment units similar to those installed at Schultz/Stoppleworth homes.
- h. Option H. Construction of a Community Well. Construct a community water supply well away from the plume and service the homes that could be affected by the plume.

(these options would have to include all properties that could be affected by the plume, not only Deer Run Heights.)

4. Future Activities - Terry

We will do a detailed analysis of the above options so that the benefits/drawbacks of each option are clearly defined. The report containing the analysis is the Feasibility Study.

We are seeking your comments on these options or questions about any part of the presentation or Superfund process.

5. Questions & Answers - Terry

Health Information for Hazardous Waste Sites

Refuse Hideaway Landfill, Update July 1994
Town of Middleton, Dane County, Wisconsin

Health Concerns Summary: The Division of Health DOH is concerned about future exposure to solvents found in groundwater. Some nearby residents and workers were exposed in the past to drinking water contaminated with solvents (tetrachloroethylene PCE, trichloroethylene TCE, and vinyl chloride). Residents have not been exposed since the Department of Natural Resources (DNR) installed water filters in their homes. Workers are protected from exposure by using a bottled drinking water supply.

Residents with contaminated drinking water are protected from exposure as long as their water filtration systems work properly. The DNR continues to monitor the movement of groundwater contamination as they clean up the site. Monitoring results will provide early warning to residents whose wells are in the path of contamination movement so they can take action to maintain a safe drinking water supply.

People who drank contaminated water were probably exposed for no more than four years, and illnesses are not expected from the exposures. TCE, PCE, and vinyl chloride can affect the liver at higher levels of exposure than those that occurred at the three affected residences. Vinyl chloride was detected in two private wells for only a few months.

There is a possible danger from movement of explosive levels of methane from the landfill. That danger exists only if the gas extraction system should fail to be maintained.

Health Recommendations: Residents and workers should continue to use a clean drinking water supply. Owners of two private water filtration systems should maintain and check their systems as recommended by the manufacturer. Their water should be regularly tested for the presence of site contaminants as required by the DNR. Workers should continue to drink bottled water.

The DNR should continue to track the movement of contaminated groundwater. As planned, they should regularly test selected private drinking water supplies in the area.

Operators of a sand and gravel business, on the site property, should regularly test their buildings for methane gas buildup.

*Current site information is found in the DNR Superfund Fact Sheet,
"Refuse Hideaway Landfill, July 1994"*

FS

704494 DNR 2/11 2x5 jt twps KIM*****

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES
NOTIFICATION OF AVAILABILITY OF THE PROPOSED PLAN FOR
CLEANUP AT THE REFUSE HIDEAWAY LANDFILL SUPERFUND
SITE AND PUBLIC COMMENT PERIOD**

The Department of Natural Resources (DNR) is proposing actions to clean up contaminated groundwater at the Refuse Hideaway Landfill site. There are three problems that must be dealt with at the Refuse Hideaway Landfill Superfund site. First, the source of contamination, the landfill, must be contained so that contamination leaving the landfill is reduced as much as possible. Second, the contaminated groundwater must be cleaned up and kept from spreading. Third, considerations need to be made in case more private wells are contaminated by Refuse Hideaway Landfill. Cleanup options that were evaluated included actions such as doing nothing, obtaining deed restrictions and placing warning signs around the site, covering the landfill with a plastic membrane cap, treating extracted groundwater and discharging it to a surface water, treating extracted groundwater and discharging it to infiltration trenches, treating extracted groundwater and reinjecting it back into the ground to enhance the natural breakdown of contaminants, supplying individual water treatment units, and constructing a community well.

After evaluating these options, DNR recommends:

- (1) maintaining the existing landfill cap and gas/leachate extraction system, placing deed restrictions on future land use, and posing signs around the site;
- (2) pumping and cleaning the groundwater and placing the cleaned groundwater back into the ground; and
- (3) supplying private residential wells that are immediately threatened or actually contaminated in the future with individual water treatment units.

Public input on the cleanup options included in the Proposed Plan is an important contribution to the cleanup selection process. Based on public comments, DNR may modify the recommended cleanup option or select another action. Everyone is encouraged to review and comment on all options provided in the Proposed Plan.

To obtain a copy of the Proposed Plan or if you have questions about the proposed decision for the Refuse Hideaway Landfill Superfund Site, call Terry Evanson at (608) 268-0941, or visit the Administrative Record File at the address below.

Oral comments may be given at the public meeting to be held at 7 p.m. on Thursday, February 23, 1995 at the new Middleton Town Hall, 7555 West Old Sauk Road, Town of Middleton. Written comments may be submitted to Terry Evanson, Project Manager, Wisconsin DNR-ERRP/3, P.O. Box 7921, Madison, WI 53707. Public comments must be postmarked by March 14, 1995.

DNR will respond to all significant comments in a document called a Responsiveness Summary. The Responsiveness Summary will be available to the public with all information used to make a decision on cleanup action in the Administrative Record at the Middleton Public Library, 7426 Hubbard, Ave., Middleton, Wisconsin.

Please fax your
correction/changes/approval

to DISPATCH... 252-6049

BY FRIDAY 2-10 2:30

-or- call your sales rep. with
approval/other information.

EM
Please Initial

ATHN Cara

Looks fine.



Terry's

ORDER NOW: Cheese & sausage trays
for all your entertaining!

piggly wiggly

28 Glaciers Edge Square, Cross Plains

Refuse Hideaway Landfill Superfund Site Open House

Who: Everyone who is interested in the
Refuse Hideaway Landfill

What: Informal Open House - Tours of
the cap and flare system by DNR
project manager, Terry Evanson

When: Thursday, October 14, 11 a.m. to
1 p.m. and 3 to 5:30 p.m.
Rain Date: Friday, October 15
(same times)

Where: At the Landfill (Park near the small
building at the end of the driveway)
2 miles West of Middleton on Hwy. 14,
North side of road.

For more information, questions or concerns,
contact Cara Norland-Shultz, DNR Community
Relations at (608) 267-0540.

News - Sickle - Arrow 10/7/93 p. 28

yd.

SOLARIAN II
er for details.

lighted by Armstrong

nduring
s rustic
seaside
off the
ors are
ally easy
e height

Graber Road
Middleton
13

Stoughton Road
Centre, Madison
22-7738

5:30, Sat. 9-3