SCREENING SITE INSPECTION REPORT
FOR
REXNORD, INC.
CLINTONVILLE, WISCONSIN
U.S. EPA ID: WID053091666
SS ID: NONE
TDD: F05-8810-031
PAN: FWI0177SA

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Rexnord, Inc. (Rexnord), site under contract number 68-01-7347.

The site was initially discovered by the Wisconsin Department of Natural Resources (WDNR) on June 4, 1981. The site was discovered when WDNR received a U.S. EPA 103(c) Notification of Hazardous Waste Site form submitted by Rexnord, Inc., detailing the dumping of wastes at the site. The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Mary B. Feenstra, of WDNR, on June 26, 1984.

FIT prepared an SSI work plan for the Rexnord site under technical directive document (TDD) F05-8706-095, issued on June 5, 1987. The SSI work plan was approved by U.S. EPA on October 4, 1988. The SSI of the Rexnord site was conducted on December 8, 1988, under TDD F05-8810-031, issued on October 28, 1988.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of seven soil samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

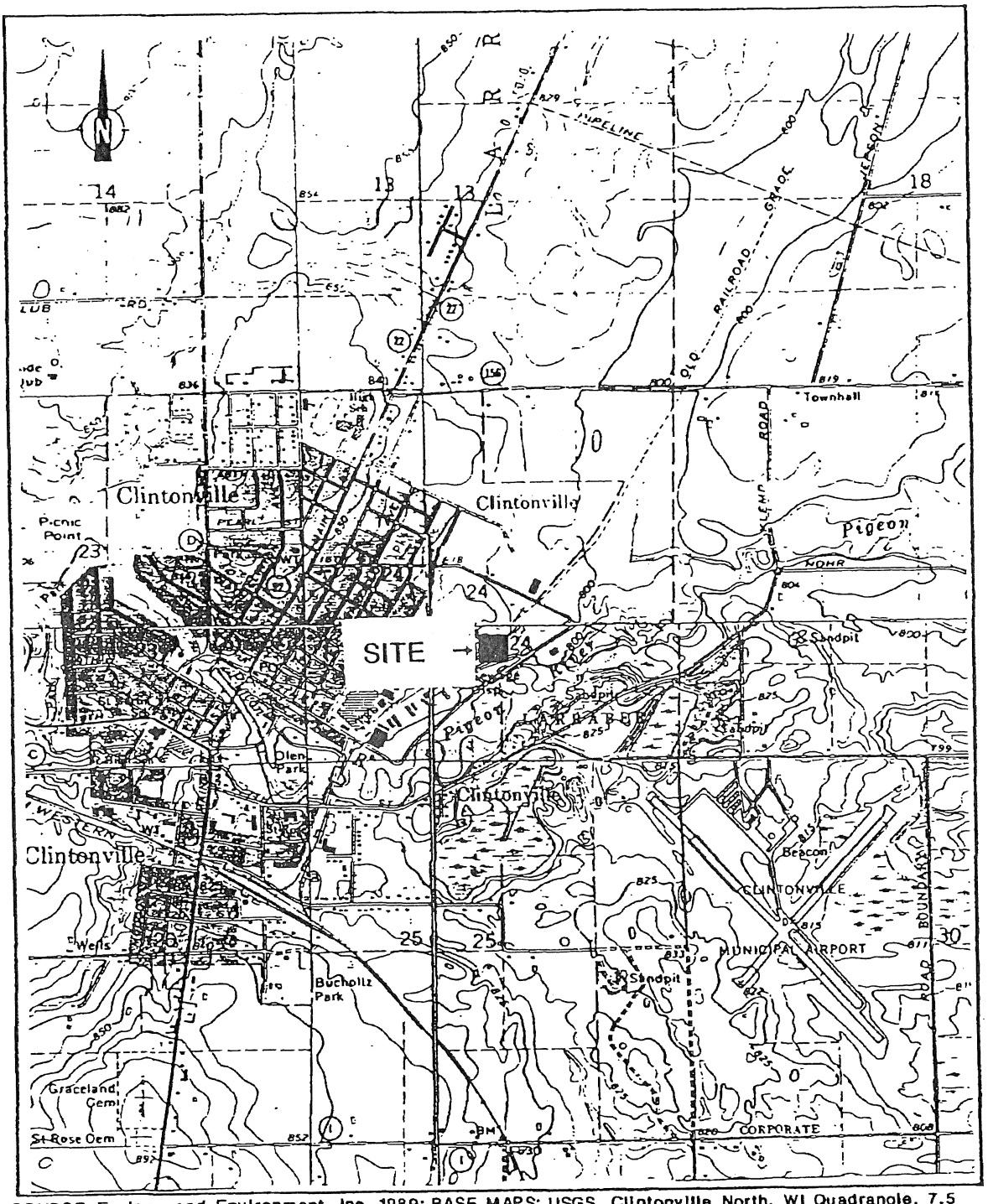
This section includes information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The Rexnord site is an approximate 16-acre parcel of land used between 1917 and the present for various manufacturing operations (Schumacher 1988). The site is currently owned by Nordberg, Inc., of Milwaukee, Wisconsin, and is used to manufacture conveyor components for the stone aggregate industry (Schumacher 1988). The Rexnord site is located at 325 15th Street on the eastern perimeter of Clintonville, Wisconsin, in Waupaca County (SW1/4NW1/4SE1/4 sec. 24, T.25N., R.14E.) (see Figure 2-1). A 4-mile radius map of the Rexnord site is provided in Appendix A.

2.3 SITE HISTORY

Over the past 72 years, the ownership of the Rexnord site has changed numerous times (Zachow 1988). Topp Stewart Tractor Company, the first company to occupy the site, built a factory on 3 acres of the present 16-acre property in 1917 and went bankrupt in 1924. Atlas Engineering took over the site property in 1924 and went bankrupt in 1930. From 1930 until 1932, the property was not utilized. Atlas Conveyor Company purchased the site in 1932 and became a subsidiary of



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Clintonville North, WI Quadrangle, 7.5 Minute Series, 1970; Clintonville South, WI Quadrangle, 7.5 Minute Series, 1970; Bear Creek, WI Quadrangle, 7.5 Minute Series, 1969.

SCALE

0 ½ 1 MILE

FIGURE 2-1 SITE LOCATION

Nordberg Manufacturing Company in 1967 (Zachow 1988). Rexnord, Inc., assumed ownership of the site in August 1970.

On July 1, 1988, Nordberg, Inc., of Milwaukee, Wisconsin (the present owner), acquired the property. From 1932 to the present, the site has been managed locally and the manufactured product has remained essentially the same (Zachow 1988). The operation is a metal-working enterprise where components for the stone aggregate industry are fabricated, finished, and assembled. The finished products include conveyor parts and stone-crushing apparatus.

Currently, the factory employs 101 people, runs 3 shifts 24 hours a day, 5 days a week, and operates out of three on-site buildings: the operations building, the warehouse, and the paint storage building (Schumacher 1988). The operations building incorporates the original plant structure and recent additions, and currently houses the office, the machine shop, the paint room, the sub-assembly room, and the main assembly room, which was added on in 1960 (Zachow 1988).

Historically, waste disposal practices at the Rexnord site consisted of dumping wastes directly onto the ground surface on-site (WDNR 1984). Early in the factory's existence, certain substances, such as metal chips and shavings, paint residue, and solvents, were thought to have been disposed of "out back" in an area now partially occupied by the main assembly room (Zachow 1988). According to site representatives, these disposal practices ceased years ago, although the exact date is unknown (Schumacher 1988). When the main assembly room was erected in 1960, the construction site was elevated with 6 to 7 feet of clay fill, leveled, and covered with gravel (Schumacher 1988).

Current waste disposal practices at the site include: the collection of scrap metal with magnets for sale to recyclers; the drumming of liquid wastes, which consist mainly of spent machine coolant oil and xylenes from paint-cleaning operations, for shipment off-site by waste haulers; and the incineration of spent paint filters. Prior to 1988, the paint filters were submersed in water inside 55-gallon drums and the drums were shipped to Winnebago County Landfill. This procedure was followed because of the high flashpoint of the filters. This practice was discontinued because the drums exceeded the permissible liquid content allowed by the landfill (Schumacher 1988).

With WDNR approval, Nordberg, Inc., installed a coal-fired incinerator and afterburner in which to burn the spent paint filters (Dubrock 1989). The incinerator went on-line in late September 1988. The spent filters are still drummed and submersed in water until they are scheduled to be burned. No permit is required by WDNR for the incinerator (Dubrock 1989). No WDNR regulatory or enforcement actions are currently taking place in connection with the Rexnord site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Rexnord site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Rexnord site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Jeff Dickson, FIT team leader, conducted an interview with Tony Schumacher, Nordberg Manufacturing Engineering Manager; George G. Zachow, Nordberg Operations Manager; and Edmond M. Delwiche, Nordberg Production Manager. The interview was conducted on December 8, 1988, at 8:30 a.m. at the Nordberg office in Clintonville, Wisconsin. Also present at the interview was Regina Bayer, FIT team member. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Rexnord site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection included a walk-though of the

site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined exact sampling locations during the reconnaissance inspection.

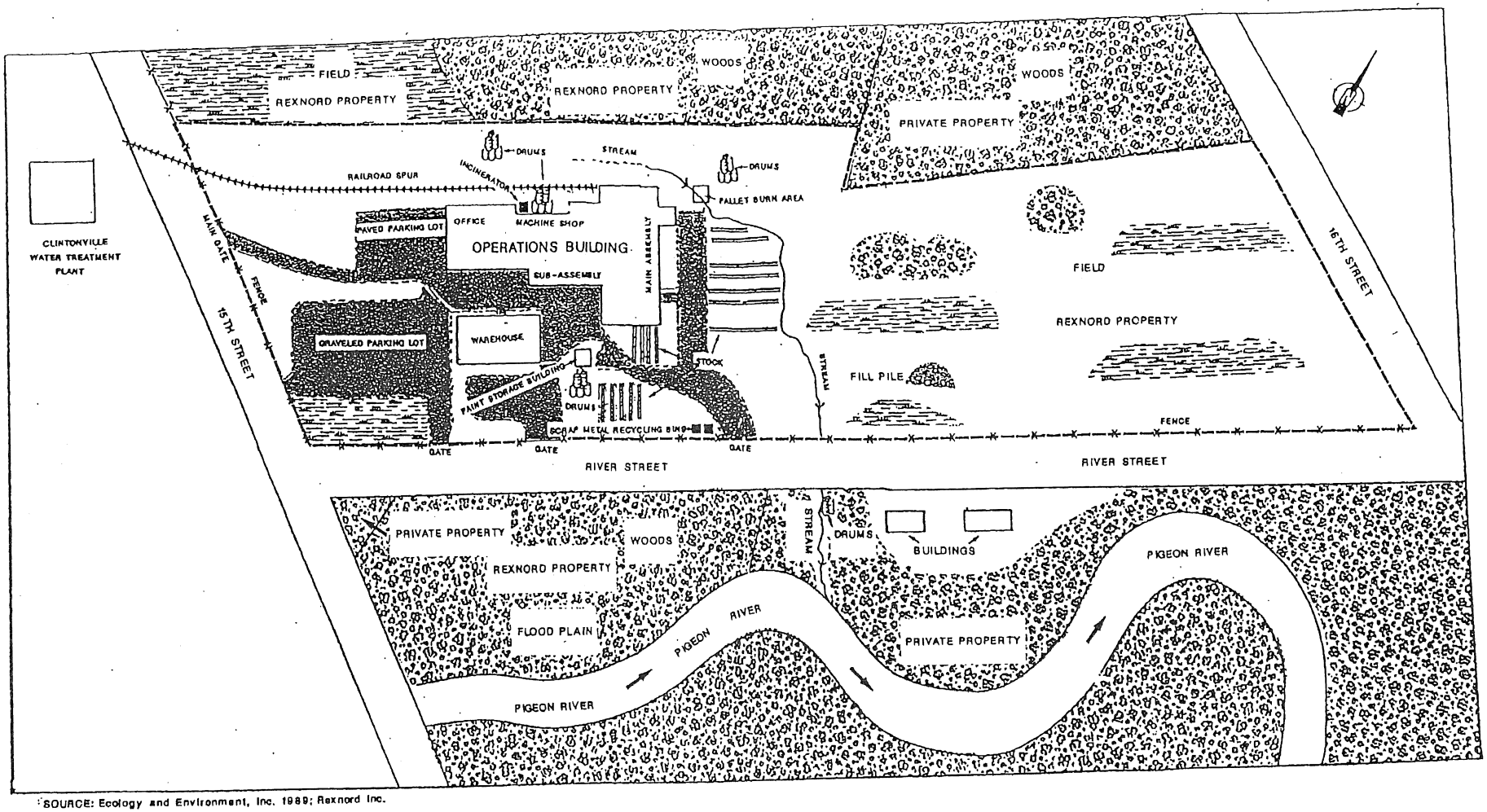
The reconnaissance inspection began on December 8, 1988, at 10:00 a.m. Tony Schumacher and Annette Weissbach, of WDNR, accompanied FIT on a portion of the reconnaissance inspection.

Reconnaissance Inspection Observations. The Rexnord site is located less than 1/4 mile east of the town of Clintonville, Wisconsin. Southwest of the site, across 15th Street, FIT observed the Clintonville Water Treatment Plant (see Figure 3-1 for locations of site features). The site is level but is located amidst rolling terrain that slopes in a southeast direction toward the Pigeon River. The Pigeon River, which flows toward the east, is located approximately 500 feet south of the site, across River Street. Most of the forested lowlands between River Street and the Pigeon River are owned by Nordberg, but the property is undeveloped (Zachow 1988). The site is bordered to the northeast by 16th Street. An industrial area is located across 16th Street from the site.

North and northwest of the site are forested hilly areas and beyond the hilly areas is a field, 2 1/4 acres of which is owned by Nordberg (Zachow 1988). An industrial area was observed to the north of the field. Three buildings were located on the approximate 5-acre parcel of land that is actively used in Nordberg operations. The T-shaped operations building is the largest of the three buildings and is located at the center of the active site property. The second building, a warehouse, is located southeast of the operations building.

East of the warehouse FIT observed the paint storage building. FIT also observed approximately 50, 55-gallon paint drums stored just outside the paint storage building. Some of these drums were stored on wooden pallets and others were set upright directly on the ground surface. Two aboveground fuel storage tanks were located on the west side of the paint storage building.

A single railroad runs along the northwest side of the operations building. Between the operations building and the railroad spur FIT observed the incinerator, which measured approximately 3 feet on each of



SOURCE: Ecology and Environment, Inc. 1989; Rexnord Inc.

SCALE 0 500 FEET

FIGURE 3-1 SITE FEATURES

its four sides and was approximately 7 feet tall. Attached to the top of the incinerator FIT observed a single smoke stack. The incinerator was not in operation during the SSI. Approximately 50 to 60, 50-gallon drums containing spent paint filters and water were observed on wooden pallets placed on the gravel around the incinerator.

Numerous piles of metal stock and pallets holding assembled components were observed immediately to the northeast and east of the operations building. Approximately 75 feet north of the operations building, FIT observed a small burn area, encompassing approximately 15 feet by 5 feet. This area contained the charred remains of wooden pallets. Approximately 10 empty drums and some discarded equipment were located approximately 20 feet north of the burn area.

A small stream originates near the incinerator area, runs eastward around the north corner of the operations building, curves toward the southeast, and exits the site through a culvert under River Street. The stream empties into the Pigeon River across River Street from the site. Very little water was observed in the stream at the time of the SSI.

The stream defines the approximate northeastern boundary of active operations at the site. Areas to the north and east of the stream are either wooded or grass-covered. A large pile of clay material used for fill is located in a grass-covered area northeast of the stream.

East of the operations building near the plant entrance gate on River Street, FIT observed bins containing metal and metal shavings to be picked up by recyclers. The site areas used for storage of drums, pallets, and recycling bins, and the access paths that criss-cross the site are graveled. Two parking lots were observed on-site near the main entrance gate to the site, off of 15th Street. A tall cyclone fence serves as a barrier to access along 15th Street and River Street, but the remainder of the site is unfenced. No additional security is employed outside of the Clintonville police patrol. At the time of the SSI, the ground was partially frozen and sparse snow covered the ground surface. Photographs of the Rexnord site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT to determine whether U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL)

analytes were present at the Rexnord site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

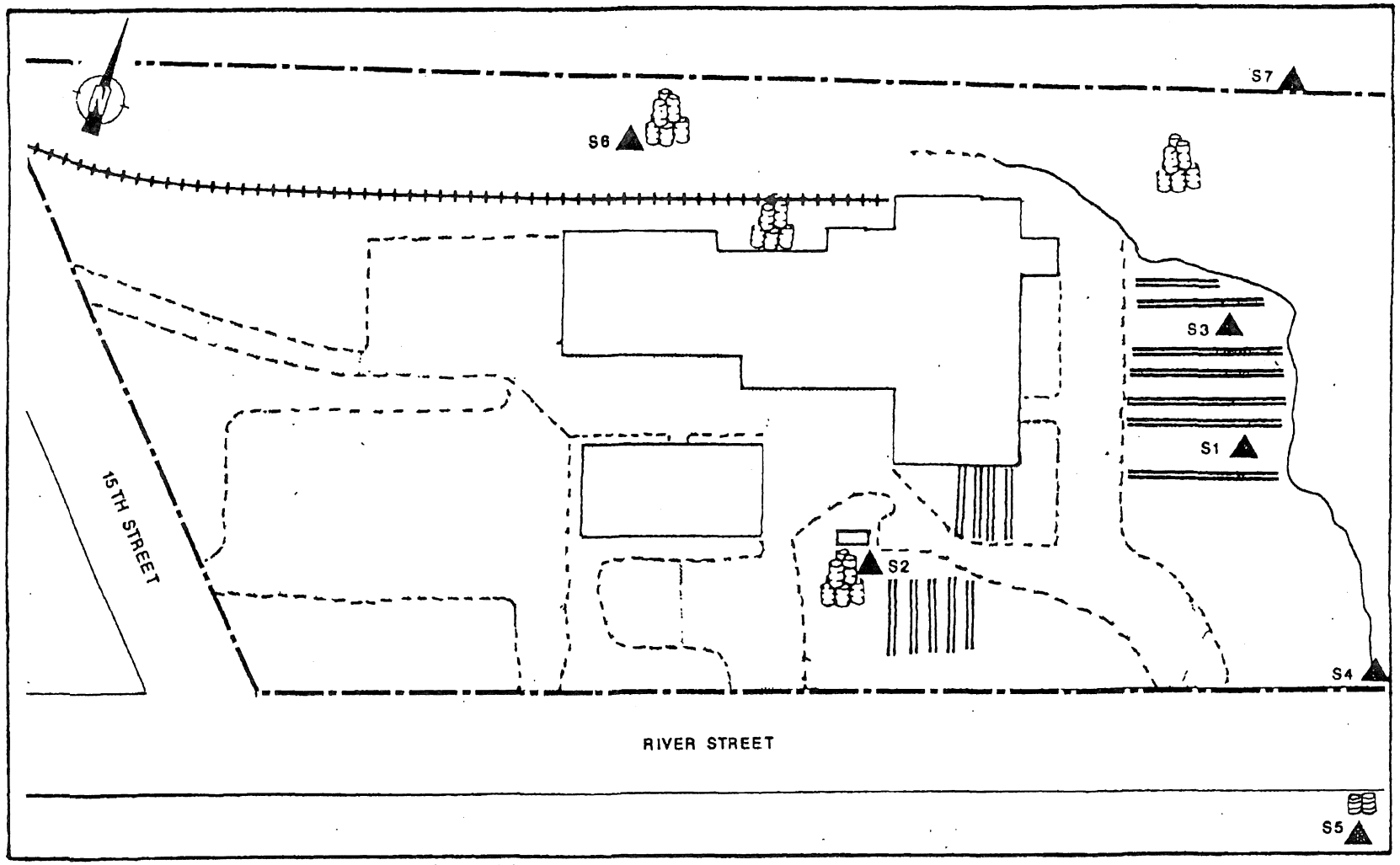
On December 8, 1988, FIT collected six soil samples and one potential background sample. Portions of the samples were offered to site representatives from Nordberg, but were declined.

Soil Sampling Procedures. Samples were collected from on-site soils both at the surface and at depth. For the surface samples, a trowel was used to dig to an approximate depth of 6 inches. The soil that was gathered was transferred to a stainless steel bowl and mixed with the trowel. The soil was then transferred from the bowl to sample bottles (E & E 1987). For the samples collected at depth, a power auger was used to dig to depths ranging from 3 to 10 feet to collect soil under the fill material. A hand auger was then used to obtain soil from the bottom of the hole. Sample material was transferred to a stainless steel bowl and mixed before being transferred to sample bottles (E & E 1987).

Soil sample S1 was collected approximately 125 feet northeast of the eastern corner of the operations building (see Figure 3-2 for soil sampling locations). The location was chosen because it was near the area where past dumping had allegedly occurred. The soil sample was obtained from a depth of approximately 10 feet in a soil substrate directly beneath the clay fill layer. Surface soil sample S2 was collected near some drums approximately 20 feet southeast of the paint storage building.

Soil sample S3 was collected 175 feet east of the north corner of the operations building. The location was chosen because it was near the area where past dumping had allegedly occurred. The soil sample was obtained from a depth of approximately 3 feet in a soil substrate directly beneath the clay fill layer. Surface soil sample S4 was collected approximately 275 feet east of the eastern corner of the operations building. The sample was collected from the bed of a stream gully where TCL compounds and/or TAL analytes may potentially accumulate.

Surface soil sample S5 was collected across River Street from the site in the stream gully. The sample was collected to determine whether TCL compounds or TAL analytes were migrating away from the site. Two partially buried drums were also observed 3 feet upstream of the



SOURCE: Ecology and Environment, Inc. 1989; Rexnord Inc.

SCALE

0 100 200 FEET

FIGURE 3-2 SOIL SAMPLING LOCATIONS

location of sample S5. Surface soil sample S6 was collected approximately 50 feet west of the incinerator. The location was chosen because of its proximity to the incinerator and to the drums containing spent paint filters.

The potential background soil sample, S7, was collected from the surface in a wooded area, approximately 175 feet north of the northern corner of the operations building. The background soil sample was collected to determine the representative chemical content of the soil in the area surrounding the site.

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the scrubbing of all equipment (e.g., trowels, bowls, and power auger flights) with a solution of Alconox detergent and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, soil samples were analyzed under the U.S. EPA Contract Laboratory Program (CLP) for TCL compounds by Pace Laboratories, Inc., of Minneapolis, Minnesota, and for TAL analytes by Enseco/Rocky Mountain Analytical of Arvada, Colorado.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil samples for TCL compounds and TAL analytes.

4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Chemical analysis of FIT-collected soil samples revealed substances from the following groups of TCL compounds and TAL analytes: common laboratory artifacts (methylene chloride, acetone, 2-butanone, and toluene), aromatics, polyaromatic hydrocarbons (PAHs), halogenated hydrocarbons, heavy metals, metals, and common soil constituents (see Table 4-1 for complete soil sample chemical analysis results).

U.S. EPA CLP quantitation/detection limits used in the analysis of FIT-collected soil samples are provided in Appendix D.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6	S7
Date	12/8/88	12/8/88	12/8/88	12/8/88	12/8/88	12/8/88	12/8/88
Time	1130	1150	1215	1230	1300	1330	1350
CLP Organic Traffic Report Number	ECU96	ECU97	ECU98	ECU99	ECW01	ECW02	ECW03
CLP Inorganic Traffic Report Number	MEBW09	MEBW10	MEBW11	MEBW12	MEBW13	MEBW14	MEBW15
Compound Detected (values in µg/kg)							
Volatile Organics							
chloromethane	—	—	—	—	6J	—	—
methylene chloride	—	—	11	16	—	6J	8
acetone	—	—	140J	180J	47J	26J	37J
2-butanone (MEK)	—	5J	—	—	—	—	—
toluene	—	—	6	—	—	22	—
ethylbenzene	—	—	—	—	—	—	7
xylenes (total)	6J	7	13	7	6J	10J	27
Semivolatile Organics							
phenanthrene	—	—	700	—	—	—	—
anthracene	—	—	130J	—	—	—	—
fluoranthene	—	—	1,100	—	—	—	—
pyrene	—	—	1,200	—	—	—	—
benzo[a]anthracene	—	—	520	—	—	—	—
chrysene	—	—	640	—	—	—	—
benzo[b]fluoranthene	—	—	600	—	—	—	—
benzo[k]fluoranthene	—	—	470	—	—	—	—
benzo[a]pyrene	—	—	470	—	—	—	—
indeno[1,2,3-cd]pyrene	—	—	360J	—	—	—	—
benzo[g,h,i]perylene	—	—	770	—	—	—	—

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6	S7
Analyte Detected (values in mg/kg)							
aluminum	10,700	3,060	6,890	12,500	8,000	5,480	7,930
arsenic	2.8	.66B	1.8B	2.9	1.5B	2.6	3.2J+
barium	71	23.8B	62.3	79	82	165	58.3
beryllium	.64B	—	.40B	.74B	.52B	.61B	.44B
cadmium	—	.99JB	1.5J	—	1.2J	.74JB	.81JB
calcium	29,400J*	3,180J*	11,300J*	21,500J*	5,600J*	35,600J*	3,130J*
chromium	19.1	14.8	18.6	24.9	22.8	17.9	16.1
cobalt	7.8B	2.4B	7.3B	10B	10.7B	5.1B	7.4B
copper	28.3	6.3	29.6	28.8	15.7	36.7	19.6
iron	16,500	6,010	14,300	20,400	19,400	15,400	13,100
lead	18.4	4.7JN	61.8	11.3JN	39.4	52.7	11JN
magnesium	20,000J*	2,440J*	7,580J*	15,300J*	5,260J*	22,400J*	3,280J*
manganese	407JN*	203JN*	580JN*	498JN*	775JN*	311JN*	596JN*
nickel	15.4	3.2B	11.5	19.9	13.5	14.5	13.3
potassium	1,220	500B	604B	1,390	923B	629B	762B
vanadium	32.1	9.7B	25.1	38.3	30.5	18.7	26.4
zinc	35.7JE	30.2JE	75.6JE	58.3JE	76.7JE	95JE	41.4JE

— Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semi-quantitative.
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1989.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section contains a discussion of data and information that apply to potential migration pathways and targets of TCL compounds and/or TAL analytes that may be attributable to the Rexnord site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

Groundwater sampling was not conducted at the Rexnord site because no potential downgradient well, finished in the aquifer of concern, could be located within a 1/2-mile radius of the site.

A potential exists for TCL compounds and TAL analytes detected in on-site soil samples to migrate from the site to groundwater in the vicinity. This potential is based on the following information:

- TCL compounds and TAL analytes have been detected in low concentrations in on-site soil samples; and

- Past disposal practices at the site included the dumping of solvents, paint wastes, and metal shavings directly onto the ground surface.

The potential for TCL compounds and TAL analytes detected in on-site soil samples to migrate to groundwater is also based on the following geological, topographic, and hydrologic information.

A review of area well logs and geologic literature of the area surrounding the Rexnord site indicates overlapping Pleistocene glacial drift deposit lying unconformably upon a Precambrian granitic basement complex (Berkstresser 1964). The glacial drift deposits, together with the granitic basement complex, form a single aquifer of concern in the site area. Well logs of the area of the site are provided in Appendix E.

The Pleistocene drift deposits in the vicinity of the site are of four major types (Berkstresser 1964). The first drift type is an outwash deposit consisting of well-sorted sand and gravel. The thickness of the outwash deposit varies widely, ranging from several feet to 200 feet. The Rexnord site is located on a major outwash deposit that is found near Clintonville and along the Pigeon River (Berkstresser 1964).

The second type of drift deposit is a glacial till composed of unstratified and unsorted mixtures of clay, sand, gravel, and boulders. This till deposit can be found in the northern part of Clintonville. The thickness of the till ranges from 20 to 100 feet (Berkstresser 1964).

The third type of drift deposit is a lacustrine deposit located to the east of Clintonville. These lake bed deposits are chiefly composed of stratified fine sands, silts, and clays. The thickness of the lacustrine deposit ranges from 100 to 300 feet (Berkstresser 1964).

The fourth and most prevalent drift deposit type in the site vicinity is a mixture of till and outwash units and is found to the northwest, southwest, and south of Clintonville (Berkstresser 1964). The thickness of the mixed deposits averages 150 feet.

The Precambrian granitic basement complex which underlies the drift is nearly impermeable except where fractures allow a flow of water through its structure (Berkstresser 1964). Within the 3-mile radius of the site the granitic basement has been encountered at depths from 93 to over 200 feet beneath the ground surface.

Several well logs indicate a 50- to 100-foot clay layer, most likely created from decomposed granite mixed with till, resting on top of the basement complex; however, due to differential erosion, it is unlikely that the clay layer is continuous throughout the 3-mile radius of the site.

It is probable, based on the lack of any continuous confining layers and the overlapping nature of the drift deposits in the area that the four drift deposits and the Precambrian basement complex are hydraulically connected and therefore constitute a single aquifer of concern.

The water table in most of Waupaca County is within 50 feet of the ground surface and, in many places, is at, or only a few feet below, the surface (Berkstresser 1964). The general direction of groundwater movement in Waupaca County is southeastward (Berkstresser 1964). Groundwater movement in the immediate area of the site is likely toward the Pigeon River (Berkstresser 1964). Groundwater in the area is replenished through precipitation (Berkstresser 1964).

Drinking water wells in the 3-mile radius of the site are finished in both the glacial drift portion and granitic basement portion of the aquifer of concern. Wells finished in the drift vary in depth from 46 feet to 200 feet. Wells finished in the granite vary in depth from 181 feet to 376 feet.

The Clintonville Municipal Water System consists of seven wells, averaging 190 feet in depth, and finished in outwash deposits (Stanislawski 1988). The water from all Clintonville municipal wells is blended and distributed to 1,865 accounts. No homes within the Clintonville water service boundary draw drinking water from private residential wells (Stanislawski 1988). The Clintonville municipal wells are located northwest, west, and southwest of the site. The closest well is located 1/2 mile southwest of the site (U.S. Geological Survey [USGS] 1969, 1970). Outside the Clintonville municipal water service boundary, there are approximately 270 private residential wells within a 3-mile radius of the site that are finished in the aquifer of concern (USGS 1969, 1970). The closest private residential well is located 1.5 miles south of the site (USGS 1969, 1970).

The population potentially affected by TCL compounds and TAL analytes in the groundwater includes approximately 5,150 residents served by the Clintonville Municipal Water System and an additional 750 people residing within a 3-mile radius of the site who are drawing drinking water from private residential wells. The total target population was

calculated by multiplying the number of accounts serviced by the Clintonville Municipal Water System (Stanislawski 1988) by the Waupaca County 1980 Census figure of 2.76 persons per household (U.S. Bureau of the Census 1982). This number was added to the number that resulted from multiplying the count of houses (USGS 1969, 1970) within a 3-mile radius of the site not serviced by the Clintonville Municipal Water System by 2.76 persons per household (U.S. Bureau of the Census 1982).

5.3 SURFACE WATER

Surface soil samples S4 and S5 were collected from a streambed to determine whether TCL compounds or TAL analytes have migrated off-site via the stream that drains the site and empties into the Pigeon River. No TCL compounds or TAL analytes detected in the streambed samples can be attributed to the Rexnord site because the substances were detected either at levels below contract-required detection limits (CRDLs) or were detected at concentrations similar to background levels.

There is a potential that low levels of TCL compounds and TAL analytes detected in on-site soil and streambed samples could migrate off-site via the stream or during a flood. The Pigeon River is located approximately 500 feet southeast of the Rexnord site. The site is located in the floodplain of the Pigeon River and, during a major flooding event, the potential exists that TCL compounds and TAL analytes detected in on-site soil samples may be transported off-site by flood waters of the Pigeon River into surrounding areas (USGS 1969, 1970). The Pigeon River is used for fishing and recreation.

The only other major body of water within 3 miles of the site is Pigeon Lake, which is located just over 1 mile west of the site and is used recreationally (USGS 1969, 1970). There are no surface water intakes located within the 3-mile radius of the site.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Rexnord site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, radiation monitor, colorimetric monitoring tubes for cyanide, explosimeter, and oxygen

meter) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A slight potential exists for TCL compounds and TAL analytes to be released to the atmosphere in connection with the paint filter incineration that takes place on-site. However, incinerator operations at the site have met with WDNR approval (Schumacher 1988). The total air target population, 6,877 people, includes those within a 4-mile radius of the Rexnord site.

The target population of Clintonville, Wisconsin, was calculated by using the 1980 U.S. Census population figure of approximately 4,567 persons. The remaining population within the 4-mile radius was determined using house counts derived from USGS topographic maps (approximately 837 houses) (USGS 1969, 1970) and multiplying by the 1980 U.S. Census figure of 2.76 persons per household in Waupaka County, Wisconsin (U.S. Bureau of the Census 1982). This method resulted in a target population of 2,310 people outside municipal boundaries and within the 4-mile radius. The populations of Clintonville and surrounding areas within the 4-mile radius were added, resulting in a total air target population of approximately 6,877 persons.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information, and interviews with local officials, no incident of fire or explosion has taken place at the Rexnord site. During the SSI, FIT observations and monitoring equipment (oxygen meter and explosimeter) readings indicated that no apparent potential for fire or explosion existed at the Rexnord site.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, and interviews with local officials, no incidents concerning direct contact with TCL compounds or TAL analytes have been documented. However, there is a potential that the public may come into direct contact with TCL compounds and TAL analytes detected at the site. The potential for direct contact is based on the following information:

- TCL compounds and TAL analytes were detected on-site;

- The area of the site is not entirely fenced, therefore access to the site is not restricted; and

- Nordberg employs 101 persons at the site.

The potential for the public or employees at the site to come into direct contact with TCL compounds and TAL analytes detected at the site is low, because the compounds and analytes were detected only in soil samples collected at depth, beneath the fill layer.

The total population potentially affected by direct contact with TCL compounds and TAL analytes detected at the site is approximately 3,654 persons, or 80% of the population of Clintonville, Wisconsin, that falls within a 1-mile radius of the site. Population calculation method is outlined in Section 5.2.

6. BIBLIOGRAPHY

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Stanislawski, Bob, September 20, 1988, Waterworks Operator, Clintonville Water Department, Clintonville, Wisconsin, telephone conversation, (715) 823-2118, contacted by Joseph D. Corns of E & E.

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WDNR, June 26, 1984, Potential Hazardous Waste Site Preliminary Assessment, for Rexnord, Inc., Clintonville, Wisconsin, U.S. EPA ID: WID053091666, prepared by Mary B. Feenstra, Madison, Wisconsin.

Zachow, George G., December 8, 1988, Representative for Rexnord Site, interview, conducted by Jeff Dickson of E & E.

3138:6

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

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APPENDIX A – SITE FOUR MILE RADIUS MAP

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APPENDIX B

U.S. EPA FORM 2070-13

Site Inspection Report

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D 053091666

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Rexnord Inc	15th & River Streets				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Clintonville	WI	54929	Waupaca	135	06

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
44°27'26.0"	088°44'48.0"	■ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
12 / 8 / 88 (MONTH DAY YEAR)	■ ACTIVE ☐ INACTIVE	1917 / present (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ■ B. EPA CONTRACTOR Ecology + Environment Inc (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeff Dickson	Geologist	Ecology + Environment Inc	(312) 663-9415
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Regina Bayer	water chemist	Ecology + Environment Inc	(312) 663-9415
Phil Smith	Geologist	Ecology + Environment Inc	(312) 663-9415
Bill Perpich	water Resource manager	Ecology + Environment Inc	(312) 663-9415
Annette weissback	Site investigator	WDNR	(414) 497-3151
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Tony Schumacher	manager manufacturing Engineering	Nordberg Inc Clintonville operations / Clintonville Wi. 15th and River Streets	(715) 823-3163
George G. Zachow	operations manager	"	( ) "
Edmond M. Delwiche	Production manager	"	( ) "
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	8:00 Am	Cold, mid-20's°F, sunny with scattered snow flurries.

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Robin Schmidt	WDNR	(608) 267-7569

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeff Dickson	FIT	Ecology + Environment Inc	312-663-9415	06 / 14 / 89 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D 053091666

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A. SOLID
- ☒ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS: unknown
CUBIC YARDS: unknown
NO. OF DRUMS: 50-60, 50 gallon

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			over the 72 years of
OLW	OILY WASTE			operation various waste
SOL	SOLVENTS	unknown	unknown	products from the manufacturing
PSD	PESTICIDES			process have
OCC	OTHER ORGANIC CHEMICALS	unknown	unknown	been disposed "out back".
IOC	INORGANIC CHEMICALS			presently - liquid waste (paint wash out
ACD	ACIDS			xylene, machine coolant) shipped out.
BAS	BASES			paint filters incinerated on site, scrap
MES	HEAVY METALS	unknown	unknown	metal sold to recyclers

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
			soil sample		ug/Kg
sol	xylenes (total)	1330-20-7	S3	13	
OCC	chloromethane	74-87-3	S5	6 J	
OCC	indeno[1,2,3-cd]pyrene	193-39-5	S3	360 J	
OCC	benzo[g,h,i]perylene	191-24-2	S3	770	
OCC	anthracene	120-12-7	S3	1.30 J	
OCC	phenanthrene	85-01-8	S3	700	
	fluoranthene	206-44-0	S3	1,100	
	pyrene	129-00-0	S3	1,200	
	benzo[a]anthracene	56-55-3	S3	520	
	chrysene	218-01-9	S3	640	
	benzo[b]fluoranthene	205-99-2	S3	600	
	benzo[K]fluoranthene	207-08-9	S3	470	
	benzo[a]pyrene	50-32-8	S3	470	
★	Note: Section IV Hazardous Substances continued on the next page				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	steel + iron stock	none	FDS		
FDS	paint	none	FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

FIT Files Region V Chicago
E+E FIT Inspection conducted Dec. 8, 1988
Values in Section IV Hazardous Substances are given that represent the highest concentrations detected on site, see table 4-1 for description of qualifiers.

EPA FORM 2070-13 (7-81)

- Continued from Part II, Section IV.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	aluminum	7429-90-5	Soil sample S4	12,500	mg/Kg
	arsenic	7440-38-2	S4	2.9	
	barium	7440-39-3	S6	165	
	beryllium	7440-41-7	S4	0.74 B	
	cadmium	7440-43-9	S3	1.5 J	
	calcium	7440-70-2	S6	35,600 J*	
	chromium	7440-47-3	S4	24.9	
	cobalt	7440-48-4	S4	10 B	
	copper	7440-50-8	S6	36.7	
	iron	7439-89-6	S4	20,400	
	lead	7439-92-1	S3	61.8	
	magnesium	7439-95-4	S6	22400 J*	
	manganese	7439-96-5	S3	580 JN*	
	nickel	7440-02-0	S4	19.9	
	potassium	7440-09-7	S4	1390	
	vanadium	7440-62-2	S4	38.3	
	zinc	7440-66-6	S6	95 JE	

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D053091666

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 5900

04 NARRATIVE DESCRIPTION

Because the site soil samples revealed TCL compounds and/or TAL analytes in concentrations similar with that of the background or in very minute concentrations, there exists a low potential that TCL compounds and TAL analytes detected in site soil samples may migrate from the site into the groundwater. The aquifer of concern in the area of the site consists of four overlapping glacial drift deposits along with the Precambrian Granite basement complex which the drift overlies (See section G for well information)

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION

The site is 300 feet from the Pigeon River and a small ephemeral stream runs through the site, draining the site, and empties into the Pigeon River. Flooding of the Pigeon River may reach the site. The sediment soil samples collected in the stream gully did not show TCL compounds/TAL analytes that could be attributable to the site. The Pigeon River flows eastward from Clintonville. There are no surface water intakes within a 3-mile radius of the site. Therefore, a low potential exists that TCL compound and TAL analytes detected in on-site soil samples could migrate off-site and affect surface water.

01 ■ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 6877

04 NARRATIVE DESCRIPTION

The Fernand site has an operating incinerator which periodically burns site generated paint filters. Since this operator is Wisconsin Department of Natural Resource approved there exists a low potential for TCL compounds/TAL analytes to be released to the air

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

none reported or observed

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 3654

04 NARRATIVE DESCRIPTION

The potential for direct contact with TCL compounds and/or TAL analytes detected in on-site soil samples is low. Many of the TCL compounds and TAL analytes detected in site soil samples had concentrations similar with that of the background. The PAH's detected in on-site soil samples were detected at depth under a fill zone. The site is not entirely fenced and access to public is not restricted. Nordberg employs 101 people

01 ■ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: 16 (Acres)

04 NARRATIVE DESCRIPTION

The potential for contamination of soil is low based on the low concentrations of TCL compounds and TAL analytes detected in on-site soil samples and the similar concentrations found in the background sample. Certain compounds not found in background sample were detected at depth under the fill cover.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 5900

04 NARRATIVE DESCRIPTION

The seven Clintonville municipal wells are thought to be up gradient from the site. All 7 wells are approximately 170 feet in depth and are finished in a Pleistocene Drift Outwash deposit. No protective clay layer has been noted in the well logs. The private residential wells outside the Clintonville municipal water service boundary are finished in both the Glacial Drift and the underlying granitic basement complex. Both the Drift aquifers and the Granite aquifers are included in the aquifer of concern. There exists a low potential for TCL compounds and TAL analytes detected in on-site soil samples to migrate into the drinking water.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: 101

04 NARRATIVE DESCRIPTION

none reported or observed. However, the potential exists that workers at the site may become exposed to the low concentrations of TCL compounds and/or analytes detected in site soil samples.

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 6877

04 NARRATIVE DESCRIPTION

none reported or observed. see A, B, C, E, F, G, H.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: WI
02 SITE NUMBER: D 0530 91666

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none reported or observed, yet there is a potential that TCL compounds and TAL analytes detected on site may affect flora on or near site. The potential for damage is probably low based on the low concentrations of TCL compounds and TAL analytes detected in soil samples, also the background concentrations were similar to many of the site soil sample concentrations

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
none reported or observed, However a low potential may exist see section J above.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none reported or observed
see section J

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 6877 — 04 NARRATIVE DESCRIPTION
at some time during the 72 years of operation it was documented that solvents and paint waste were disposed of "out back" onto the ground surface.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none reported or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
none reported or observed

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☒ OBSERVED (DATE: 12/8/88) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Two semi buried, crushed 55 gallon drums were observed off-site, across River street, in the stream bed. It is not know for certain whose property the drums are on. Nor is it know what was in them. Soil sampling near the drums revealed no high concentrations of TCL compound or TAL analytes. It is also not know from where they came.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Nordberg presently operates an incinerator to burn paint filters. Some hazards may be associated with this operation, however, the Wisconsin Department of Natural Resources has approved this operation.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 6877

IV. COMMENTS

The TCL compounds and TAL analytes detected on the Rexnord site were found in low concentrations and in many cases were similar to the back ground. Certain compounds not detected in the background were detected in an at-depth soil sample.

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

E+E / FIT site inspection 12/8/88
Region V Chicago
FIT Files

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
WI	D0530 91666

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES	None	none	None	None
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
■ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
■ C. DRUMS, ABOVE GROUND	≈ 100	50 gallon
■ D. TANK, ABOVE GROUND	2 fuel tanks	unknown
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
■ H. OPEN DUMP	Some empty drums tank	
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ■ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ■ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ■ A. BUILDINGS ON SITE: 3

06 AREA OF SITE: 16 (Acres)

07 COMMENTS

The drums stored on site were of 2 types: 1 Drums containing paint to be used in the operation. 2. Drums with spent paint filters and water waiting to be incinerated. The fuel tanks were used to refuel vehicles used in operation

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ■ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. Past disposal practices involved dumping wastes on ground. Presently all material Drums were for the most part sitting on wooden pallets, stored outside. drums were in good shape sealed with lids. no evidence of spillage was observed drums contained either paint to be used in operation or spent paint filters and water to be incinerated

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS site partially fenced access not restricted

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

E+E / FIT Site Inspection 12/8/88
Region V Chicago
Fit files

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: WI
02 SITE NUMBER: D053091666

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ■
NON-COMMUNITY	C. ☐	D. ■

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ■
D. ☐	E. ☐	F. ☐ unknown

03 DISTANCE TO SITE
A. 1/2 (mi)
B. >1 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☑ A. ONLY SOURCE FOR DRINKING
B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 5900

03 DISTANCE TO NEAREST DRINKING WATER WELL: 3000 ft. (mi)

04 DEPTH TO GROUNDWATER: 0 - 50 (ft)

05 DIRECTION OF GROUNDWATER FLOW: South east

06 DEPTH TO AQUIFER OF CONCERN: 0 - 50 (ft)

07 POTENTIAL YIELD OF AQUIFER: unknown (gpd)

08 SOLE SOURCE AQUIFER: ☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including useage, depth, and location relative to population and buildings)
all Clintonville municipal water system wells are located west of the site They are finished in Pleistocene drift deposits. The main formation is an outwash unit. The city has 7 wells all approximately 190 feet deep. Outside Clintonville water supply boundary wells range in depth from 40-200 ft deep. The closest none municipal well used for drinking is over 1 mile away. The Clintonville municipal wells are thought to be upgradient from the site.

10 RECHARGE AREA
■ YES ☐ NO
COMMENTS The Pleistocene drift aquifers are recharged locally from precipitation.

11 DISCHARGE AREA
■ YES ☐ NO
COMMENTS ponds, swamps streams are examples of discharge water table is at surface in many places

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☑ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Pigeon River	☐	500 ft. (mi)
Small on-site stream	☐	on site (mi)
Pigeon Lake	☐	1 mile (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 3570	B. 5298	C. 5900
NO. OF PERSONS	NO. OF PERSONS	NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 1/4 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 2134

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 1/8 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)
The site is located in an industrialized area 1/4 mi to the east of Clintonville Wisconsin. Clintonville has a population of 4567 people areas surrounding clintonville are sparsely populated..

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
WI	D053091666

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ■ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ■ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
100-200 (ft)	unknown (ft)	unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
3.0 (in)	2.0 (in)	<3 %	South-east	3 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. NA (mi) OTHER: B. 500 ft. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: none

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 1/8 (mi)	B. 1/4 (mi)	C. NA (mi)	D. NA (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

see appendix A

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Climatic atlas, U.S. Dept. of Commerce, National Climatic Center, Ashville N.C. 1979
E&E files Region V Chicago
FIT inspection conducted 12/8/88
Ground-Water Resources of Waupaca County

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D053091666

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	7	TCL Rice Laboratories Minneapolis Min. TAL Engeco / Rocky Mountain Analytical Labs Arvada CO.	data available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU 101	no readings above background
Radiation mini alert	" " " "
O2 meter and Explosimeter	" " " "
cyanide detection tube	" " " "

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF E1E / FIT Files Chicago, Region V (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS E1E / FIT Files Region V Chicago

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NA No other pertinent field Data was collected.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection by E1E / FIT 12/8/88
Region V Chicago
FIT files

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
wi	D 053091666

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Nordberg Inc.		15th and River Street		Clintonville	wi	54929

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
Nordberg Inc.		3073 Chase Avenue		milwaukee	wi	53201
				(Previous owners cont.)		

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Rexnord Inc		15th River Streets		clintonville	wi	54929
nordberg manufacturing company		15th and River Streets		clintonville	wi	54929
atlas conveyor		15th and River Streets		clintonville	wi	54929

IV. PREVIOUS OPERATOR(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
atlas Engineering		15th and River Streets		clintonville	wi	54929
Topp Stewart Tractor Company		15th and River		clintonville	wi	54929

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E + E Inc FIT inspection conducted 12/8/88.
Region V Chicago

EPA FORM 2070-13 (7-81)

EPA NA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D 053091666

II. CURRENT OPERATOR (Provide if different from owner) NA				OPERATOR'S PARENT COMPANY (If applicable) NA			
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER						

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner) NA				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable) NA			
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD						
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD						
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD						

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E+E Inc., Fit inspection conducted 12/8/88
E+E Inc. Files Region V Chicago

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D 053091666

II. ON-SITE GENERATOR NA

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S) NA

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Betten Processing			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
2175 Shawano Ave			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Green Bay	WI / unknown		
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection by E+E / FIT 12/8/88
Region V Chicago
FIT Files

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D053091666

II. PAST RESPONSE ACTIVITIES N/A

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D 053091666

II. PAST RESPONSE ACTIVITIES (Continued) NA

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

an incinerator was constructed and put into operation on Sept. 1988. Its purpose is to incinerate Industrial paint filters. The filters were originally taken to Winnebago County Landfill however because of their ignitability they had to be drummed and mixed with water, This exceeded permissable liquid content of waste accepted at land fill so incinerator had to be built. Because incineration is less than 500 pounds per hour no permit is required by WDNR.

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

FIT Files
E+E FIT Inspection Conducted Dec. 8, 1988
Region V Chicago

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
WI	D 053091666

II. ENFORCEMENT INFORMATION none

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION none

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E+E files Region V Chicago
FIT inspection conducted 12/8/88

EPA FORM 2070-13 (7-81)

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 1 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1430

DIRECTION OF PHOTOGRAPH: E

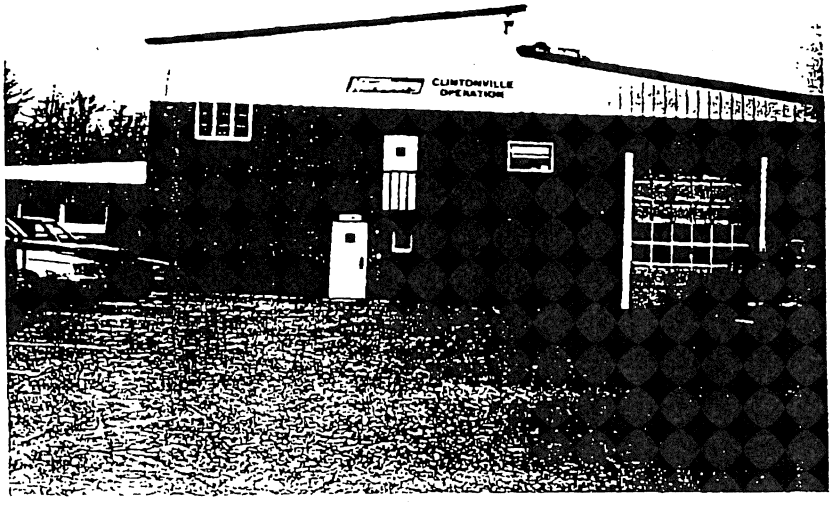
WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —

DESCRIPTION:

Facility front office.



DATE: 12/8/88

TIME: 1432

DIRECTION OF PHOTOGRAPH: W

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —

DESCRIPTION:

Adjacent municipal water treatment plant.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 2 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1410

DIRECTION OF PHOTOGRAPH: W

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —

DESCRIPTION: Paint drums near paint storage shed.

DATE: 12/8/88

TIME: 1415

DIRECTION OF PHOTOGRAPH: E

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —

DESCRIPTION: Disposal bins for metal recycling.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 3 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1420

DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —

DESCRIPTION: Burned pallets and empty drum.

DATE: 12/8/88

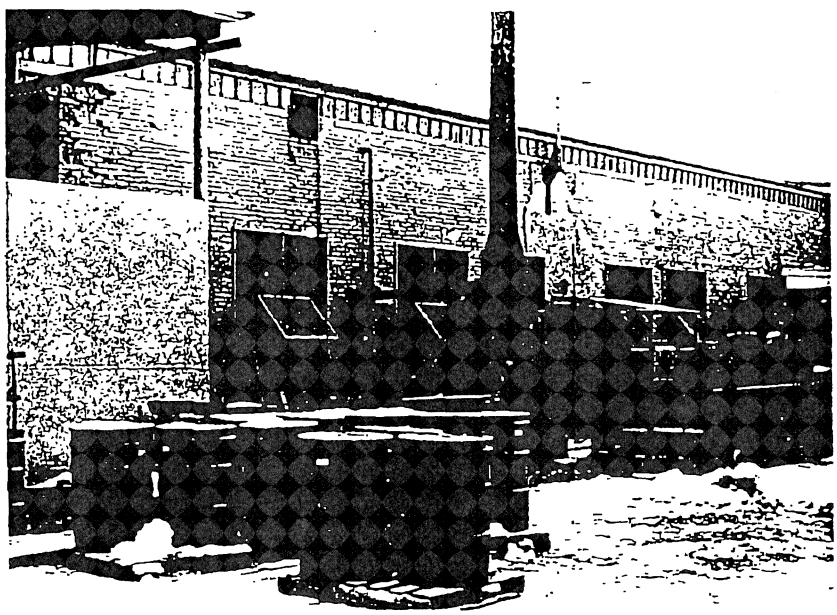
TIME: 1425

DIRECTION OF PHOTOGRAPH: S

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —



DESCRIPTION: Drums containing filter waste next to incinerator.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 4 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1435

DIRECTION OF PHOTOGRAPH: S

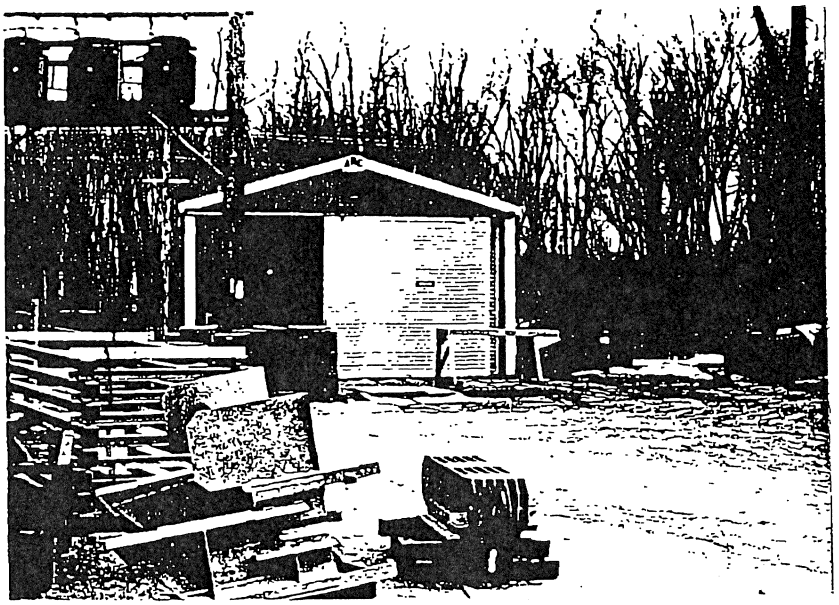
WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): —

DESCRIPTION:

Paint storage shed.



DATE:

TIME:

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS:

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):

DESCRIPTION:

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 5 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-231 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1130

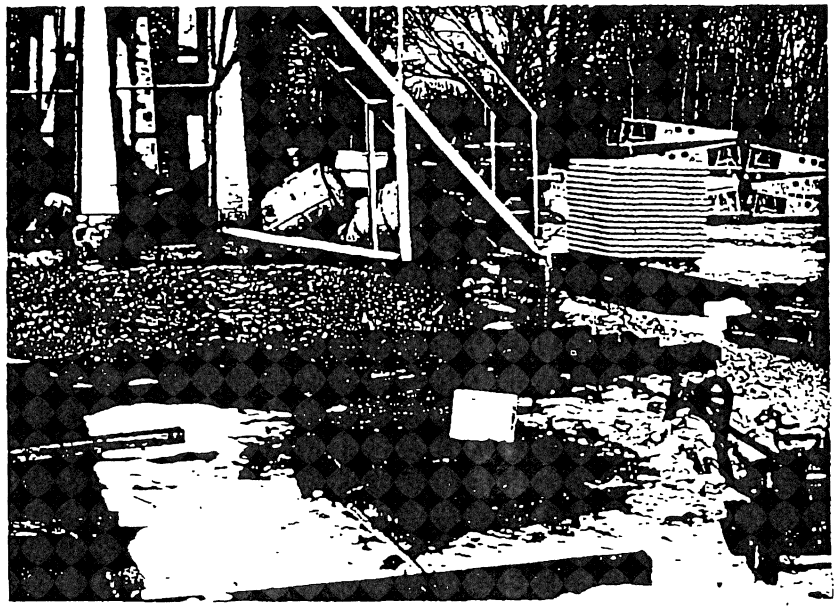
DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S1

DESCRIPTION: Soil sample S1 perspective.



DATE: 12/8/88

TIME: 1130

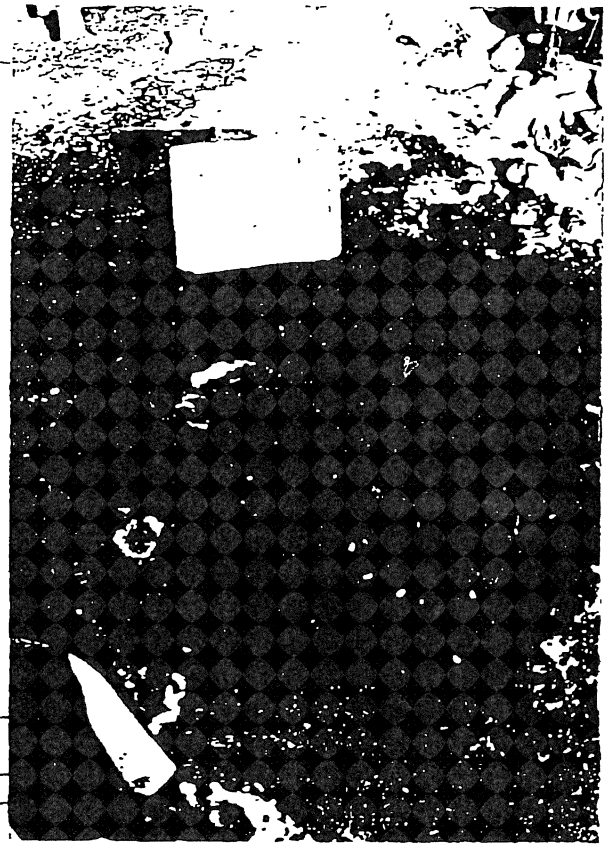
DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S1

DESCRIPTION: S1 close-up.



FIELD PHOTOGRAPH LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 6 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1150

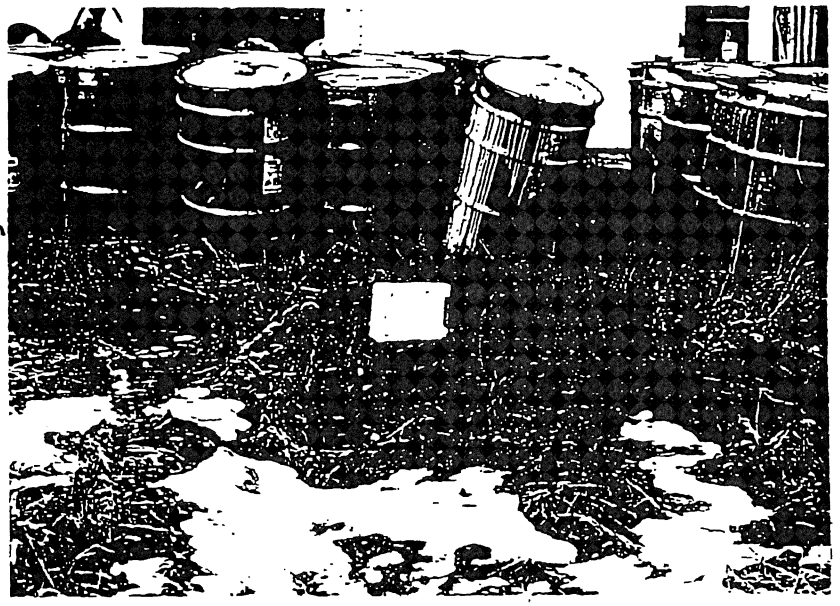
DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S2

DESCRIPTION: Soil sample S2 perspective.



DATE: 12/8/88

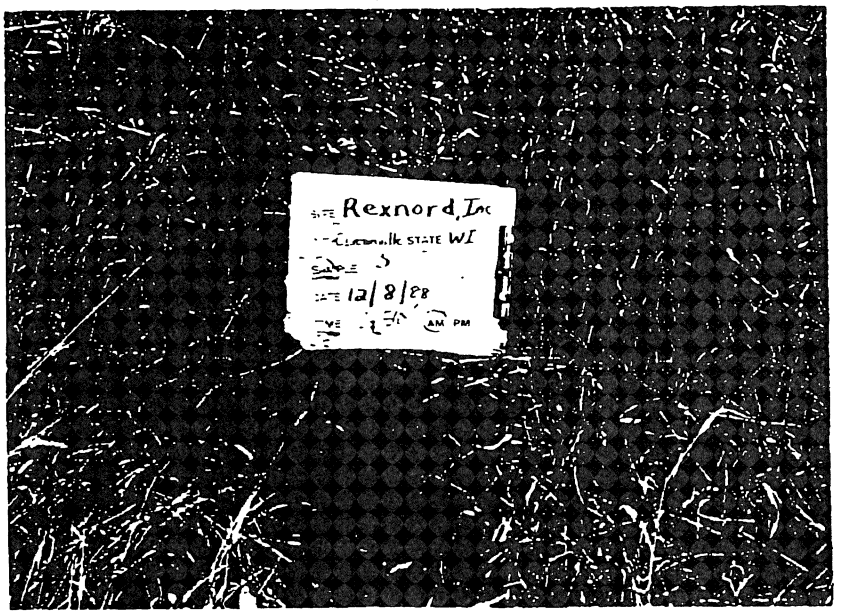
TIME: 1150

DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S2



DESCRIPTION: S2 close-up.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1215

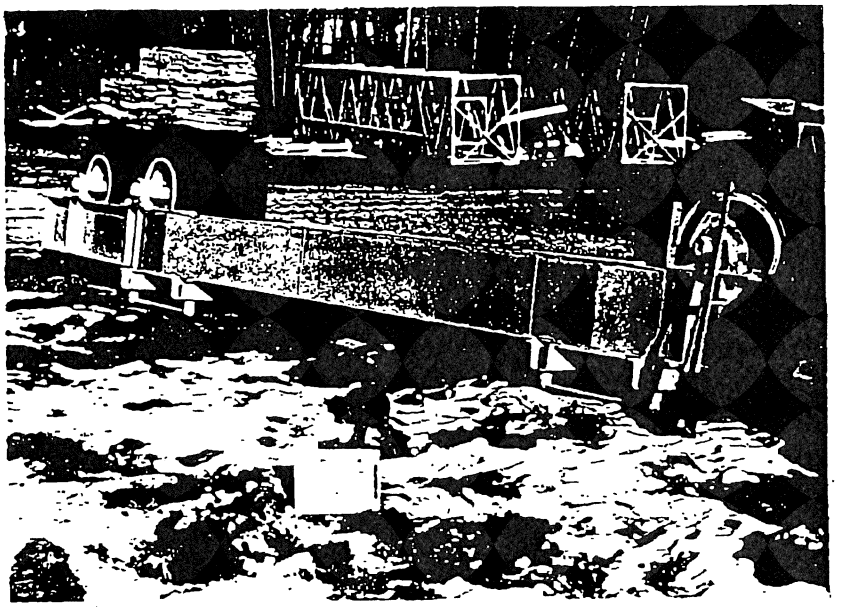
DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S3

DESCRIPTION: Soil sample S3 perspective.



DATE: 12/8/88

TIME: 1215

DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S3

DESCRIPTION: S3 close-up.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 8 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1230

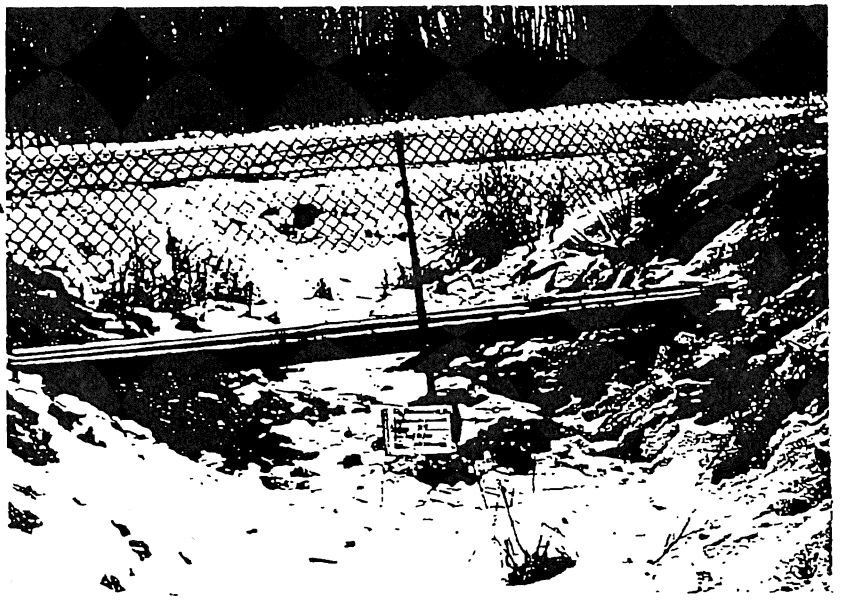
DIRECTION OF PHOTOGRAPH: S

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S4

DESCRIPTION: Soil sample S4 perspective.



DATE: 12/8/88

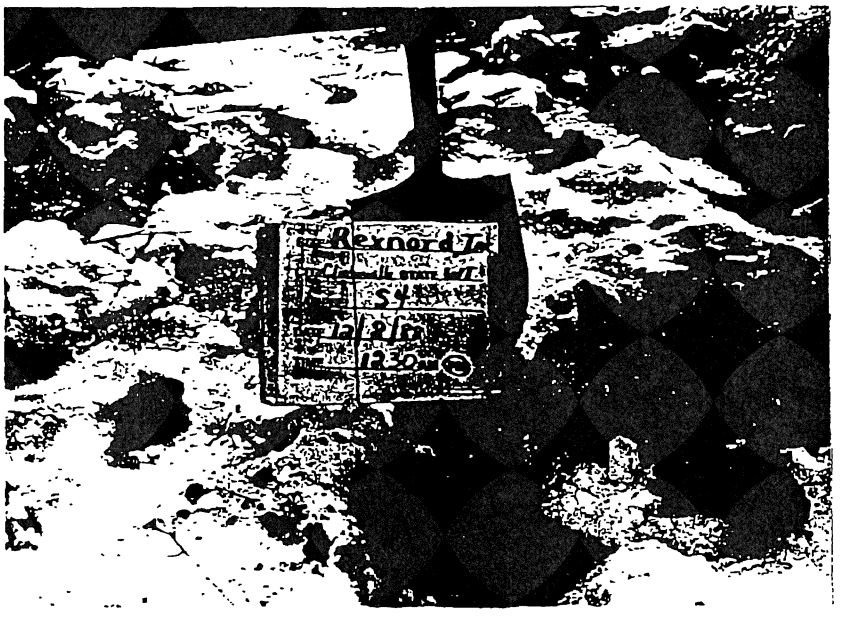
TIME: 1230

DIRECTION OF PHOTOGRAPH: S

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S4



DESCRIPTION: S4 close-up.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 9 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1300

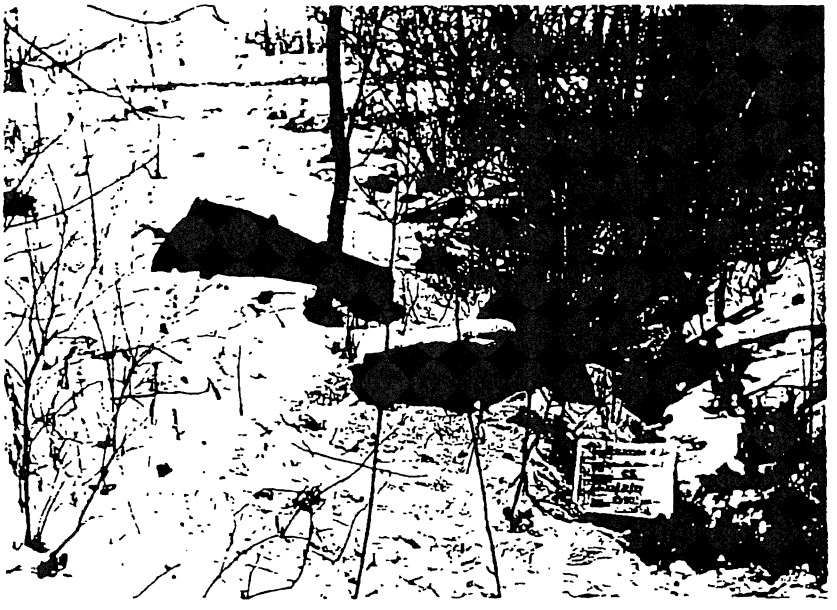
DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S5

DESCRIPTION: Soil sample S5 perspective.



DATE: 12/8/88

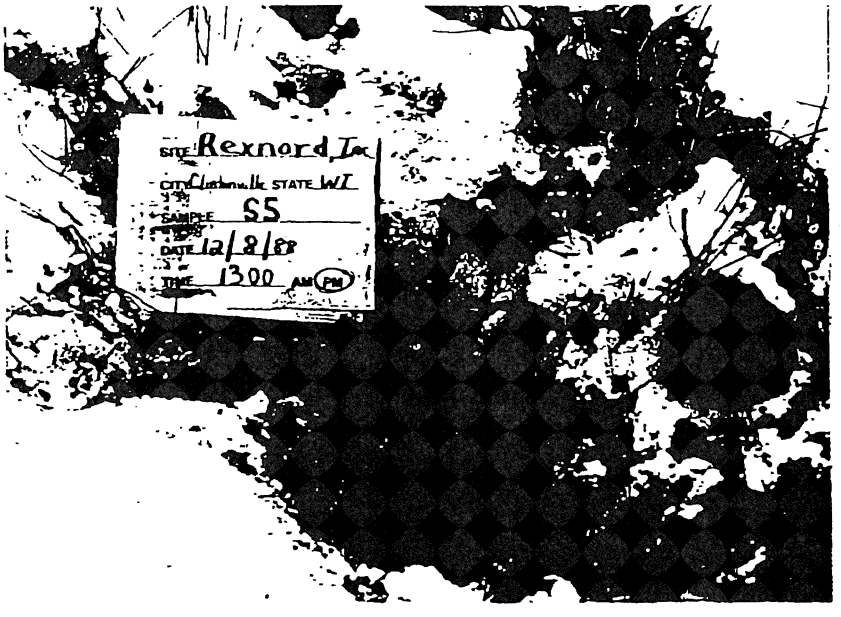
TIME: 1300

DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S5



DESCRIPTION: S5 close-up.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Rexnord, Inc. PAGE 10 OF 11

U.S. EPA ID: WID053091666 TDD: F05-8810-031 PAN: FWI0177SA

DATE: 12/8/88

TIME: 1330

DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, p. cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S6

DESCRIPTION: Soil sample S6 perspective.

DATE: 12/8/88

TIME: 1330

DIRECTION OF PHOTOGRAPH: N

WEATHER CONDITIONS: cold, partly cloudy

PHOTOGRAPHED BY: Jeff Dickson

SAMPLE ID (if applicable): S6

DESCRIPTION: S6 close up.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ROUTINE ANALYTICAL SERVICES

CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Contract Laboratory Program
Target Analyte List
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	SOIL WATER	SEDIMENT SLUDGE
Aluminum	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Mercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel 6

1. COUNTY: Waupaca

CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Larrabee

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
S. W. ¼ of Section 14, Township 25 N. Range 14 E.

3. OWNER AT TIME OF DRILLING
[redacted]

4. OWNER'S COMPLETE MAIL ADDRESS
[redacted]

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15	40				15			

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		52			70				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	20	4	20	185

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	Steel pipe	Surface	185

well log 2

9. GROUT

Kind	From (ft.)	To (ft.)
Drill cuttings	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	30
Fine sand	30	68
Silt sand	68	160
Clay & hardpan	160	176
Sand & gravel	176	178
Sand, gravel & hardpan	178	180
Sand & gravel	180	182
Clay & hardpan	182	183
Sand & gravel	183	185

Well construction completed on November 17 1966

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 15 Hrs. at 8 GPM

Depth from surface to normal water level 60 ft.

Depth to water level when pumping 85 ft.

Water sample sent to Madison laboratory on: March 13 1966

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: A. E. Schafer — Registered Well Driller

COMPLETE MAIL ADDRESS: Box 177 Fremont, Wisconsin 54940

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH
See Instructions on Reverse Side

RECEIVED
DEC 2 0 1963
SANITARY ENGINEERING

1. County Waupaca {Town ☒ Village ☐ City ☐} Larabee Check one and give name

2. Location SW X NW Sec 15 T 25 N, R 14 E
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ [redacted]
Name of individual, partnership or firm

4. Mail Address [redacted]
Complete address required

5. From well to nearest: Building 6 ft; sewer 40 ft; drain None ft; septic tank 40 ft; dry well or filter bed 60 ft; abandoned well None

6. Well is intended to supply water for: Farm

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	1	20			
6	20	295			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	St	1	95

9. GROUT:

Kind	From (ft.)	To (ft.)
Cuttings	1	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
top soil & clay	1	8
Sand	8	19
Clay	19	95
Granite	95	295

11. MISCELLANEOUS DATA:

Yield test: 20 Hrs. at 1 GPM.

Depth from surface to water-level: 20 ft.

Water-level when pumping: 295 ft.

Water sample was sent to the state laboratory at: Madison (City) on 8-31 1959

Construction of the well was completed on: 8-31 1959

The well is terminated 10 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon completion? Yes X No

Signature Bryan Jones (Registered Well Driller) Gillett, Wis. (Complete Mail Address)

Please do not write in space below

Rec'd No.

Ans'd

Interpretation well log

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waupaca — Town ☒ Village ☐ City ☐ Larrabee (Check one and give name)

2. Location N. W. ¼ of N. E. ¼ W of Highway 22 Section 13 Township 25 Range 14 East
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ [redacted]
Name of individual, partnership or firm

4. Mail Address [redacted]
Complete address required

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JAN 9 1961
SANITARY ENGINEERING

5. From well to nearest: Building 65 ft; sewer 130 ft; drain 65 ft; septic tank 150 ft; dry well or filter bed 180 ft; abandoned well 70 ft.

6. Well is intended to supply water for: Farm

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20	6	20	153

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel	0	151
6"	Brass screen	151	155

9. GROUT:

Kind	From (ft.)	To (ft.)
Clay puddle	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Clay	0	19
Sand	19	37
Clay	37	106
Very fine sand	106	115
Clay	115	150
Hardpan gravel	150	151
Sand gravel	151	155

Construction of the well was completed on: November 3 19 60

The well is terminated 12 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon completion? Yes X No

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 11 GPM.

Depth from surface to water-level: 8 ft.

Water-level when pumping: 82 ft.

Water sample was sent to the state laboratory at: Oshkosh (City) on November 3 1960

Signature R. J. SCHAFER & SONS, INC. (Registered Well Driller) Fremont, Wisconsin (Complete Mail Address)

Please do not write in space below

Rec'd NOV 3 1960 No. 4876

Ans'd

Interpretation

Well log 3

	10 ml	10 ml	10 ml	10 ml	10 ml
hrs.	0	0	0	0	0
hrs.	+	+	+	0	0
firm	+	+	+		

Examiner

RECEIVED
Vol 6
DEC - 7 1964
SANITARY ENGINEERING

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waukesha (Town ☒ Village ☐ City ☐) Mattison — Check one and give name

2. Location N ½ of SW ¼ or Part 9 & 10 Sec 18, T 29 N, R 15 E
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ [redacted]
Name of individual, partnership or firm

4. Mail Address [redacted]
Complete address required

5. From well to nearest: Building 4 ft; sewer 50 ft; drain 50 ft; septic tank 80 ft; dry well or filter bed 80 ft; abandoned well None ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
20	1	20			
6	20	167			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
7" OD	28#	1	163
	Screen	163	167

9. GROUT:

Kind	From (ft.)	To (ft.)
Cuttings	1	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
top soil	1	3
layers of sand & clay	3	163
sand	163	167

Construction of the well was completed on: Oct. 6th 1964

The well is terminated 10 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon completion? Yes X No

11. MISCELLANEOUS DATA:

Yield test: 6 Hrs. at 25 GPM.

Depth from surface to water-level: 20 ft.

Water-level when pumping: 40 ft.

Water sample was sent to the state laboratory at: Madison (City) on 12-1 1964

Signature Bryan Jones (Registered Well Driller) — Gillett Wis (Complete Mail Address)

Please do not write in space below

Rec'd _____ No. _____

Ans'd _____

Interpretation _____ well 109 4

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner _____

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

APR 28 1981

1. COUNTY Waupaca

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name Larrabee

1. LOCATION	¼ Section	Section	Township	Range
NE/NW	1	22	25 N	14E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE [redacted]

POST OFFICE [redacted]

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
15 ft										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer / Clearwater Dr.	Sewage Sump / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench
									60		10 ft

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home.

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	30			
6	30	224	depth of well		

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6 in	Bk New TKC	Surface	
A53	ASTM-1945 [illegible]		
4 L			94

well log
S

8. GROUT (

	(ft.)	To (ft.)
Clay slurry & [illegible]	Surface	30

9. FORMATIONS

Kind	From (ft.)	To (ft.)
top soil	Surface	1
sand	1	3
clay	3	7
sand	7	14
clay	14	93
granite	93	224

decomposed at top

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☒ Rotary-hammer w/drilling [illegible] ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on April 20 1981

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 50 Hrs. at 15 GPM

Depth from surface to normal water level 28 Ft.

Depth of water level when pumping 55 Ft. Stabilized ☐ Yes ☐ No

Water sample sent to Madison laboratory on April 27 1981

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature Hentzke Well Drilling Inc. Rt. New London [illegible]
John J Hentzke
Registered Well Driller

Complete Mail Address

WELL CONSTRUCTOR'S REPORT JUN 22 1976 SEP 8 1976

Wel-6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waupaca

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Larabee

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NW X NE, Sec 23 - T25N - R14E

3. OWNER AT TIME OF DRILLING
[redacted]

4. OWNER'S COMPLETE MAIL ADDRESS
[redacted]

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
5	45		68		none		60	

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
65		100+	None	100+	None	200	None	none	none

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
none

6. Well is intended to supply water for:
Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	181			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	18.97 New, black	Surface	135
	P.E. Q&T		
	ASTM A53		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cuttings	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Top soil & sand	Surface	20
Soft clay w/fine sand	20	120
Clay w/ some gravel	120	135
Granite	135	181

well log

6

11. MISCELLANEOUS DATA

Yield test: 3 Hrs. at 10 GPM

Depth from surface to normal water level 32 ft.

Depth to water level when pumping 110 ft.

Well construction completed on 6 - 17 1976

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: 6-21 1976

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearb wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sut surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Bryan Jones Registered Well Driller

COMPLETE MAIL ADDRESS: Gillett, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

REV. 11-68

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

Well #4 ?

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

NOV 4 1980

1. COUNTY: Waupaca
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Larrabee

2. LOCATION: ¼ Section or Gov't. Lot: SE | Section: 23 | Township: 25N | Range: 14E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: City of Clintonville
ADDRESS
POST OFFICE: Wis. ZIP CODE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
To be enclosed	None		None		None		None		60	

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pnuematic Tank
None														

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
None											

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
None						

5. Well is intended to supply water for: City of Clintonville

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
36	Surface	30			
30	30	52			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
36"	New, block, PE, 3/8" wall	Surface	24
30"	New, block, PE, ½ wall #58	42	41
16"	New, block, PE, 62.5 Valley, A-53 (16" welded)	42	42
10'	Stainless screen installed		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	30

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sandy clay w/ Stone	Surface	4
Sand	4	22
Clay w/ Stone	22	28
Sand	28	48
Sand w/ fine gravel	48	52

well log
7

10. TYPE OF
☒ Cab
☐ Rot w/drilling mud
☐ Rotary-w/drilling mud
☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

Well construction completed on Oct. 28 1980

Well is terminated 24 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA
Yield Test: 12 Hrs. at 500+ GPM
Depth from surface to normal water level 14 Ft.
Depth of water level when pumping 40 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Clintonville San. Dist. laboratory on Oct 20th 1980

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Bryan Jones, Registered Well Driller
Business Name and Complete Mailing Address: Gillett, 54124

B5P

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

AUG 14 1946

1. County Waupaca — Town / Village / City: Clintonville

2. Location 30' SE water towarFWD property — SW¼, SW¼, sec. 24, T25N, R14E

3. Owner or Agent Four Wheel Drive Auto Company

4. Address Clintonville, Wisconsin

5. From well to nearest: Building _____ ft; sewer _____ ft; drain _____ ft; septic tank _____ ft; dry well or filter bed _____ ft; abandoned well _____ ft.

6. Well is intended to supply water for: general industrial uses

7. DRILLHOLE OR EXCAVATION:

Dia. (in.)	From (ft.)	To (ft.)
48"	0	15'
38"	15	50
30"	50	75

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
30"	steel	0	50'
12"	Armco iron screen	55	75
12"	Armco iron plus	24"	55'

9. GROUT:

Kind	From (ft.)	To (ft.)
neat cement	0	50'

10. FORMATIONS:

Kind	Thickness (ft.)	Total Depth (ft.)
concrete	1	1
fill and clay	5	6
coarse sand & gravel	24	30
clay	22	52
med. fine sand	18	70
coarse sand	5	75

well log

8

11. MISCELLANEOUS DATA:

Yield test: 7½ Hrs. at 300 GPM.

Depth from surface to water: 3' ft.

Water-level when pumping: 25' ft.

dd = 22' [illegible] = 13.6 [illegible]

Water sample sent to laboratory at

by customer on _____ 19__

Construction of the well was completed on August, 1945 19__

The well is terminated 18 inches (above) (below) the permanent grade.

Was the well disinfected upon completion? Yes yes No _____

Was the well sealed watertight upon completion? Yes yes No _____

Signature Layne Northwest Co. 709 North 11th St. Milwaukee, 3, Wisc.

Registered Well Driller — Complete Mail Address

Permit #29

[signature]

plot

Hol 8

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Waupaca { Town ☒ / Village ☐ / City ☐ } Matteson
   Check one and give name

2. Location NW¼ NW¼ Sec. 19, Twn. 25 R15E
   Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ [redacted]
   Name of individual, partnership or firm

4. Mail Address [redacted]
   Complete address required

RECEIVED
NOV 2 1960
SANITARY ENGINEERING

5. From well to nearest: Building 4 ft; sewer 36 ft; drain 20 ft; septic tank 44 ft; dry well or filter bed 130 ft; abandoned well 30 ft. (Filled with cement)

6. Well is intended to supply water for: Farm Use

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	10			
2	10	46			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
2½	R.D. Galv.	0	43
	Point	43	46

9. GROUT:

Kind	From (ft.)	To (ft.)
Clay Drillings	0	10

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Red Clay, Sandy	0	10
Reddish sandy gravel, a few soft thin clay layers	10	26
SandLayers	26	36
Fine Sand, thin clay layers	36	40
Fine sand, W.B.	40	46

Construction of the well was completed on: October 15 1960

The well is terminated 10 inches ☒ above ☐ below the permanent ground surface.

Was the well disinfected upon completion? Yes x No

Was the well sealed watertight upon completion? Yes x No

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 15 GPM.

Depth from surface to water-level: 26 ft.

Water-level when pumping: 32 ft.

Water sample was sent to the state laboratory at: Madison (City) on October 19 1960

Signature [signature] Registered Well Driller

R.R. # 1, Hanawa, Wisconsin
Complete Mail Address

Please do not write in space below

Rec'd OCT 20 1960 No. 41328

Ans'd

Interpretation UNSAFE

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	✓				
48 hrs.	✓				
Confirm	✓				
B. Coli	5				
	5				

Ex

well log

9

plat

OCT 31 1973

ELL CONSTRUCTOR'S REPORT
)RM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

COUNTY: Waupaca
CHECK ONE: [X] Town [ ] Village [ ] City
NAME: Matteson

LOCATION – Section: 1E¼ of the 7E¼ | Section: 20 | Township: 25N | Range: 15E

3. OWNER AT TIME OF DRILLING: [redacted]

– Grid or street no. | Street name | ADDRESS: [redacted]

ND – If available subdivision name, lot & block no. | POST OFFICE: [redacted]

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
7 ft								

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		70 ft			90 ft				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Farm.

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10 in	Surface	30			
6 in	30	376	depth of well		

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6 in Blk	1945 per ft	Surface	
Youngstown	New T&C	0	188

Well 109
10

8. GROUTING MATERIAL

	From (ft.)	To (ft.)
Clay	Surface	30
	0	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Top soil	Surface	1
Clay	1	12
Quick sand	12	18
Clay	18	188
Granite	188	368
Crevice Granite	368	376

10. TYPE OF DRILLING MACHINE USED

[X] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on Oct 22 1973

Well is terminated 12 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] No

Well sealed watertight upon completion [X] Yes [ ] No

11. MISCELLANEOUS DATA

Yield test: 48 Hrs. at 9 GPM

Depth from surface to normal water level 20 ft.

Depth to water level when pumping 160 ft.

Water sample sent to Madison laboratory on: Oct 30 1973

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: John J. Hentzel & Sons, Registered Well Driller

COMPLETE MAIL ADDRESS: R.2. New London

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

APR 20 1974

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY Waupaca

CHECK ONE: [X] Town [ ] Village [ ] City

NAME Larrabee

2. LOCATION – ¼ Section: N.E. ¼ of S.W. ¼ | Section: 27 | Township: 25 N. | Range: 14 E.

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING [redacted]

ADDRESS [redacted]

POST OFFICE [redacted]

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
20								

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		80			90				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: New Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	20	4	20	186

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4 I.C.	new steel driller's pipe #10.89	Surface	182
4x4x12	slot stainless steel well screen	182	186

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill cuttings	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	10
Large stones	10	12
Clay & sand	12	25
Sand	25	52
Clay	52	79
Hardpan	79	102
Course sand & gravel	102	106
Hardpan	106	130
Boulders	130	133
Hardpan	133	182
Sand & gravel	182	186

10. TYPE OF DRILLING MACHINE USED

[X] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Wat

Well construction completed on Sept. 13 19 73

Well is terminated 12 inches [ ] above [X] below final gra

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 10 GPM

Depth from surface to normal water level 40 ft.

Depth to water level when pumping 135 ft.

Water sample sent to Madison

Your opinion concerning other pollution hazards, information concernir type of casing joints, method of finishing the well, amount of cement us be given on reverse side.

well log

11

[X] Yes [ ]

pletion [X] Yes [ ]

n: April 8 19 74

relating to nearby wells, screens, se pumprooms, access pits, etc., shou

SIGNATURE R.J. SCHAFER & SON, INC.
Norbert Rotz
Authorized Agent
Registered Well Driller

COMPLETE MAIL ADDRESS
Box 177 FREMONT, WISCONSIN 54940

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

WELL CONSTRUCTOR'S REPORT

Wel-6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: WAUPACA
CHECK ONE: ☒ Town ☐ Village ☐ City
NAME: LARRABEE

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available)
CLINTONVILLE MOTEL US45 SOUTHSIDE SE1/4 SEC 26 T25N R14E

3. OWNER AT TIME OF DRILLING
[redacted]

4. OWNER'S COMPLETE MAIL ADDRESS
[redacted]

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
10	N	N	N	N	N	N	N	N

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
N	N	N	N	N	N	N	N	N	N

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: HOME + MOTEL

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	115			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	STEEL 19:45#	Surface	109
6	6" EVERDUR STD FITGS JOHNSON SCREEN	109	115

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	25
HARD PAN + BOULDERS	25	105
MEDIUM SAND	105	115

well log
12

11. MISCELLANEOUS DATA
Yield test: 8 Hrs. at 15 GPM
Depth from surface to normal water level 49 ft.
Depth to water level when pumping 51 ft.

Well construction completed on SEPT 1955
Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to MADISON laboratory on: SEPT. 1955

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Harvey L. Kriegel
Registered Well Driller

COMPLETE MAIL ADDRESS: TIGERTON, WIS.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

REV. 11-68

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-78

MAY 4 1979

1. COUNTY: Waupaca
CHECK (✓) ONE: ☐ Town ☐ Village ☒ City
Name: Clintonville

2. LOCATION: ¼ Section NW X NW; Section 25; Township 25N-; Range 14E
OR – Grid or Street No.: Street Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: City of Clintonville
ADDRESS:
POST OFFICE: Clintonville, Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg Sewer C.I.	Sanitary Bldg Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
500' +		Same		Same		Same				

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Seepage Bed	Seepage Trench
	Same			Same						Same			Same		

Privy	Pet Waste Pit	Pit: Nonconforming Well	Pump	Tank	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
						None			None		

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Storage Structure	Other (Give Description)
	None		Low swampy area 95'

well log
13

5. Well is intended to supply water for: City

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
34	Surface	40	This does not		
26	40	62	include planned 4' fill		

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
34	New, Clad, PE, 3/8 prime	Surface	-12+4
26	" " " 1/2 "	-4	-46
16	" " " 3/8" "	-5	-48
16	Stainless 304, rodded, Johnson screen	.024 Slot	

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	40

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Top Soil, sand w/silt	Surface	10
sand w/some gravel	10	35
Clay	35	45
sand w/some silt	45	58
Clean sand	58	62
136.17#		
62.58#		
14 (Gravel packed to top of 26")		

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on April 30th 1979

11. MISCELLANEOUS DATA
Yield Test: 24 Hrs. at 205 GPM
Depth from surface to normal water level 3.5 + 4 Ft.
Depth of water level when pumping 46 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Bob Barnum of Green Bay DNR laboratory on April 25th 1979

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Bryan Jones Registered Well Driller
Complete Mail Address: Gillett, Wis

DIST FILE SGS

plot

DEC 17 1971

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY Waupaca

CHECK ONE: ☐ Town ☐ Village ☒ City

NAME: Clintonville

2. LOCATION – ¼ Section: S. W. ¼ of N. W. | Section: 30 | Township: 25N | Range: 15 E.

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING Clintonville Airport (Basil Arvey Airport Mgr

ADDRESS: P. O. Box 236

POST OFFICE: Clintonville, Wisconsin 54929

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
35	50				50			

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		65			65			None	

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Airport

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	122

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	T. & C. New steel drillers pipe # 19.45	Surface	119
3' X	6" X 8 slot Johnson stainless steel well screen	119	122

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill cuttings	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	12
Clay	12	24
Sand	24	28
Hardpan	28	55
Dry sand	55	58
Clay	58	119
Sand	119	122

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on December 7 1971

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ N

Well sealed watertight upon completion ☒ Yes ☐ N

11. MISCELLANEOUS DATA

Yield test: 20 Hrs. at 5 GPM

Depth from surface to normal water level 20 ft.

Depth to t 97 ft.

Water sam Madison laboratory on: Dec. 15 19 71

Your opin rds, information concerning difficulties encountered, and data relating to nearby wells, screens, seal type of ca well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given o

Well log

14

SIGNATUR INC.

Registered Well Driller

Authorized Agent

COMPLETE MAIL ADDRESS: Box 177 Fremont, Wisconsin 54940

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

JUL 15 1976

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

AUG 13 1976

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY Waupaca

CHECK ONE: [X] Town [ ] Village [ ] City

NAME Mattson

2. LOCATION ¼ Section: NW¼ NW¼ | Section: 30 | Township: 25N | Range: 15E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING [redacted]

ADDRESS [redacted]

POST OFFICE [redacted]

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
20 ft								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		60 ft			80 ft				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Farm Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	48 ft depth of well			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6 in	RR Nent PC	Surface	
A53	U.S.	0	44
8	Left Stainless steel		
	lead under 6 in	44	48
1846	ft.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay slurry & cement	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Top soil	Surface	1
Sand	1	6
Clay	6	8
Quicksand	8	15
Clay	15	42
Sand fine	42	48

10. TYPE OF DRILLING MACHINE USED

[X] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on July 6 19 76

Well is terminated 12 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] N

11. MISCELLANEOUS DATA

Yield test: 60 Hrs. at 15 GPM

Depth from surface to normal water level 9 ft.

Depth to water level when pumping 18

Water sample sent to Madison

...nt upon completion [X] Yes [ ] N

laboratory on: July 14 19 76

Your opinion concerning other pollution hazards, informati... ed, and data relating to nearby wells, screens, seal: type of casing joints, method of finishing the well, amount c... sub-surface pumprooms, access pits, etc., should be given on reverse side.

well 109
15

SIGNATURE John J. Hertz Registered Wel...

...DRESS ...ewton Wisc

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

plot

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

AUG 11 1976

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Waupaca

CHECK ONE: [X] Town [ ] Village [ ] City — NAME: Larabee

2. LOCATION – ¼ Section: n.w.¼ | Section: 35 | Township: 25 n | Range: 14 e

OR – Grid or street no | Street name

AND – If available subdivision name, lot & block no

3. OWNER AT TIME OF DRILLING: Mills Supply Center, Inc.

ADDRESS: 1500 Lynndale

POST OFFICE: Appleton, Wis. 54911

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
20								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		85			230				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Fleet Farm Store

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	350			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	new t. & e. steel Valley Steel 19.45# ASTM A53 recessed coupling	Surface	182

Well 109
16

8. GROUT OR OTHI

		To (ft.)
clay slur		20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand & fill	Surface	1
clay & stones	1	6
sand	6	14
clay & sand	14	73
clay	73	84
clay & stones	84	182
granite	182	350

10. TYPE OF DRILLING MACHINE USED
[X] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on 8/2 19 76

Well is terminated 10 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] No

Well sealed watertight upon completion [X] Yes [ ] No

11. MISCELLANEOUS DATA
Yield test: 2 Hrs. at 8 GPM

Depth from surface to normal water level 40 ft.

Depth to water level when pumping 310 ft.

Water sample sent to Wis. State laboratory on: 8/4/76 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Eldon Welch — Registered Well Driller

COMPLETE MAIL ADDRESS: Rt. # 2 Fremont, Wis. 54940

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

MAR 16 1973

WELL CONSTRUCTOR'S REPORT

FORM 3300-16

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY	CHECK ONE	NAME
Waupaca	[x] Town [ ] Village [ ] City	Larabee

2. LOCATION – ¼ Section	¼ Section	Section	Township	Range	3. OWNER AT TIME OF DRILLING
NW	NW	36	25	14	[redacted]

OR – Grid or street no.	Street name	ADDRESS
		[redacted]

AND – If available subdivision name, lot & block no.	POST OFFICE
	[redacted]

4. Distance in feet from well to nearest: (Record answer in appropriate block)	BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
	8					–			

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		65		103		160		–	

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Farm

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	70			
6	70	110			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New, steel, T&C, 19.45#	Surface	110

well 109
17

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay & stones	Surface	40
Hard gravel	40	61
Clay & stones	61	106
Sandy gravel	106	110

8. GROUT OR

Kind	From (ft.)	To (ft.)
Drill cuttings	Surface	70

10. TYPE OF DRILLING MACHINE USED

[ ] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [x] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on 2/14/73 19

Well is terminated 8 inches [x] above [ ] below final grade

Well disinfected upon completion [x] Yes [ ] No

Well sealed watertight upon completion [x] Yes [ ] No

11. MISCELLANEOUS DATA

Yield test: 12 Hrs. at 10 GPM

Depth from surface to normal water level 30 ft.

Depth to water level when pumping 40 ft.

Water sample sent to Madison laboratory on: 2/20/73 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE Luisier Well Drilling, Inc.
Fred J. Witt Registered Well Driller

COMPLETE MAIL ADDRESS
R.1, Oconto Falls, Wis. 54154

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

plot

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

AUG 17 1982

1. COUNTY Crawford

CHECK ONE ☐ Town ☐ Village ☐ City NAME Madison

2. LOCATION – ¼ Section: NE of NW | Section: 31 | Township: 25 N | Range: 15 E

OR – Lot or street no.: Lot | Street name: Sunney MO 1261

AND – (If available subdivision name, lot & block no.): recorded in Vol 4 page 114

3. OWNER AT TIME OF DRILLING [redacted]

ADDRESS [redacted]

POST OFFICE [redacted]

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Tel 718-723-6878

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
12 ft								

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50 ft			75 ft				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	30			
6	30	74	depth of well		

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight		From (ft.)	To (ft.)
6	well log	A53	Surface	
			0	71
	18	hum		
6		Plain	71	74

9. FORMATIONS

Kind	From (ft.)	To (ft.)
top soil	Surface	1
Sand	1	15
Clay	15	40
Sand & gravel	40	60
Coarse sand	60	74

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay slurry & chlorine	Surface	30

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on Aug 9 19 82

11. MISCELLANEOUS DATA

Yield test: 72 Hrs. at 15 GPM

Depth from surface to normal water level 25 ft.

Depth to water level when pumping 36 ft.

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: Aug 16 1982

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE Hartzke well drilling Inc. — John J. Hartzke

COMPLETE MAIL ADDRESS R2 New Lisbon

Registered Well Driller

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTION REPORT

Form 3300-[illegible] Rev. 12-76

APR 14 1981
APR 28 1981

1. COUNTY: Waupaca
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Matteson

LOCATION	¼ Section	Section	Township	Range
NE¼ of SE¼		31	25N	15E

OR – Grid or Street No. | Street Name: 40 ar

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
[redacted]
ADDRESS [redacted]
POST OFFICE [redacted]

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
18 ft										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer / Clearwater Dr.	Sewage Sump / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench
									70 ft		80 ft.

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	30			
6	30	70	depth of well		

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
[illegible]	[illegible]	Surface	
[illegible]		40	66
[illegible]			
[illegible]			70

well log
19

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay slurry & Alsine	Surface	30

9. FORMATIONS

Kind	From (ft.)	To (ft.)
top soil	Surface	1
sand	1	6
clay	6	19
sand	19	25
clay	25	60
sand	60	70

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on April 6 1981

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 80 Hrs. at 15 GPM

Depth from surface to normal water level 12 Ft.

Depth of water level when pumping 20 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on April 13 1981

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Hintzke Well Drilling Inc. John J. Hintzke
Registered Well Driller

Complete Mail Address: P.O. New Lincoln Wis