

**FORM EQP 5111 ATTACHMENT TEMPLATE B2**

**B2: CORRECTIVE ACTION INFORMATION**

(Volume 1)

This document is an attachment to the Michigan Department of Environment, Great Lakes, and Energy's (EGLE) *Instructions for Completing Form EQP 5111, Operating License Application Form for Hazardous Waste Treatment, Storage, and Disposal Facilities*. See Form EQP 5111 for details on how to use this attachment.


The administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451) R 299.9504(1)(c), R 299.9508(1)(b), R 299.9525, R 299.9629, R 299.9635, and R 299.9636; §§324.11115a and 324.11115b of Act 451; and Title 40 of the Code of Federal Regulations (CFR) §270.14(d) and Part 264, Subpart F, establish requirements for submitting corrective action information and implementing a corrective action program for hazardous waste management facilities. All references to 40 CFR citations specified herein are adopted by reference in R 299.11003.

This license application template addresses requirements for corrective action information for the waste management units (WMU) at the DLD Environmental Services, Inc. facility in Plainwell, Michigan. This template includes facility background information, current conditions, and release assessment requirements for operating license applications. This template supplies information to support the corrective action program specified in R 299.9629. In this template, applicants must include appropriate justification for the proposed elimination of any WMU from the corrective action program under Part 111 of Act 451.

*(Check as appropriate)*

Applicant for Operating License for Existing Facility:

- R 299.9629 Corrective Action
- Elimination from corrective action requirements proposed for one or more units

 *More than one box may be checked, if one or more WMUs are proposed for elimination from corrective action requirements*

Applicant for Operating License for New, Altered, Enlarged, or Expanded Operating License:

- R 299.9629 Corrective Action
- Elimination from corrective action requirements proposed for one or more units

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## B2.A FACILITY BACKGROUND

### B2.A.1 History and Description of Ownership and Operation

DLD was incorporated in 1977 for the purpose of serving the hazardous waste management needs of laboratories in industry, medicine and academia. This is still the main thrust of our services, however, we have grown to accommodate the needs of both large and small quantity generators. DLD is the receiving facility for many of the household hazardous waste programs in the State of Michigan; and holds a Reverse Distributors license from the US Department of Justice/DEA enabling it to destroy Schedules I-V controlled substances. DLD's service area has expanded from the local area (approximately 500 miles from Plainwell, MI) to the regional area (approximately 1000 miles from Plainwell, MI). Its services include the processing of medical waste and non-hazardous chemical waste, including Universal Waste. Most waste is sent off-site for incineration or waste water treatment.

DLD is not the final disposal site for any waste. DLD consists of hazardous waste handling areas, non-hazardous waste handling areas, loading and unloading areas and warehouses, descriptions of which may be found in Sections A1 and B6.

The following table is DLD's regulatory history for the last ten years.

Date	Nature of Inspection	Description of Violations
03/13/12	MIDEQ AST inspection	No violations
03/27/12	MIDEQ site inspection	No violations
04/05/12	PHMSA Inspection	49 CFR 172.201 – Improper shipping description
09/20/12	MIDEQ site inspection	No violations
01/31/13	MIDEQ site inspection	No violations
06/24/13	MIDEQ fire incident	40 CFR 267.17(a) – Precautions to prevent accidental ignition or reaction of ignitable or reactive waste. 40 CFR 267.17(b) – If you treat or store ignitable or reactive waste or mix incompatible wastes you must take precautions to prevent reactions (such as fires).
04/16/14	EPA Site Inspection	40 CFR 279.22(c)(1)No “used oil” label on oil collection device. Corrected upon receipt of notification.
10/17/14	MIDEQ site inspection	No violations
10/17/14	EPA TSCA Site Inspection	No violations
03/10/15	Bureau of Fire Services Storage Tank Division	Piping and venting issues are addressed in the report, a variance is being written.
03/25/15	Allegan County Health Dept. Medical Waste Producing Facility Inspection	No Violations - No Report Written
03/27/15	MIDEQ site inspection	No violations
06/30/15	MIDEQ site inspection	No violations
09/18/15	MIDEQ site inspection	No violations

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Date	Nature of Inspection	Description of Violations
12/14/15	MIDEQ site inspection	No violations
03/23/16	MIDEQ site inspection	No violations
06/27/16	MIDEQ site inspection	No violations
08/16/16	MIDEQ site inspection	No violations
11/30/16	MIDEQ site inspection	No violations
02/10/17	MIDEQ site inspection	40 CFR 264.1084(g) tank stack flange not properly reconnected following repair of tank fill alarm float.
06/13/17	MIDEQ site inspection	No violations
08/08/17	MIDEQ site inspection	No violations
12/07/17	MIDEQ site inspection	No violations
03/16/17	MIDEQ site inspection	No violations
11/26/19	EQLE - Quarterly	Violation: 40 CFR 268.50 Process container containing waste longer than 1 year
03/13/20	EGLE - Quarterly	No Violations
06/17/20	EGLE - Quarterly	No Violations
03/11/21	EGLE - Quarterly	Violation: Failure to submit Biennial and Used Oil Report in timely manner.
05/17/21	EGLE - Quarterly	No Violations

There have been no environmental inspections conducted at DLD, either under Public Act 451, Part 111 or Public Act 201.

## B2.A.2 Environmental Setting

### B2.A.2(a) Climate

Please see Section B4.A.2(a).

### B2.A.2(b) Topography

Please reference Attachments A13-1 through A13-3.

### B2.A.2(c) Hydrogeology

Please see Section B4.A.2.e.

**B2.A.2(d) Soil**

Please see Section B4.A.2(d).

**B2.A.2(e) Surface Water**

No surface waters exist on or around (adjoining or abutting) the DLD the site.  
The Kalamazoo River is approximately one quarter mile from the DLD facility.

**B2.A.2(f) Surrounding Land Uses**

Please See Section B4.A.2(f).

**B2.A.2(g) Critical Habitats and Endangered Species**

Please see Section B4.A.2(m)(iv).

**B2.A.3 Characterization of Potential or Actual Sources of Contamination**  
[R 299.9504(c) and 40 CFR §270.14(d)]

This section describes actual or potential sources of contamination at the DLD Environmental Services, Inc. facility that are subject to the corrective action requirements of Part 111 of Act 451. These sources include waste management units that are discernible units at which contaminants have been placed at any time, or at which contaminants have been released, or at which there is a threat of release regardless of the intended use of such unit. These sources also include areas of concern that are those units which do not meet the definition of waste management unit, but which may have released contaminants to the environment on a non-routine basis, or which may present an unacceptable risk to public health, safety, welfare, or the environment.

**B2.A.3(a) Hazardous Waste Units: DLS-1, DLS-2, DLS-3, DLS-4, DLS-5 , HWLB-1: and  
Proposed Hazardous Waste Units: DLS-6, DLS-7, DLS-8, DLS-9, DLS-10,  
DLS-11 and DLS-12**

All of these areas are or will be contingent one to another and should be viewed for the intent of this section as one area.

**B2.A.3(a)(1) Unit Characteristics**

Reference is made to the topographic maps in Section A13. For a physical description of each unit, please see Section A1. For drawings of each unit, see section B6.

**B2.A.3(a)(2) Waste Characteristics and Management**

Please see Volume 1, Section A3.

**B2.A.3(a)(3) History of Releases or Potential to Release**

All current and proposed hazardous waste management units have, or will have, appropriate secondary containment. All current loading/unloading areas also have secondary containment, blind sumps, and are roofed.

**B2.B FACILITY'S ASSESSMENT OF KNOWN NATURE AND EXTENT OF CONTAMINATION**

This section is not applicable.

**B2.C FACILITY'S EXPOSURE ASSESSMENT**

**B2.C.1 Human Exposure and Threats**

No information is available for this section.

**B2.C.2 Environmental Exposure and Threats**

**B2.C.2(a) Exposure Pathway**

No information is available for this section.

**B2.D INTERIM MEASURES**

No interim Response activities needed or expected.

**B2.E ENVIRONMENTAL INDICATORS**

Not applicable.

**B2.F FACILITY'S ASSESSMENT OF KNOWN OR PROPOSED CONSTITUENTS OF CONCERN**

[R 299.9629(3)(a)(i) and (3)(b)(i)]

No information is available for this section.

**B2.G ESTABLISHED OR PROPOSED CLEANUP CRITERIA**

[R 299.9629(3)(a)(ii) and (iii) and R 299.9629(3)(b)(ii) and (iii)]

**B2.H ESTABLISHED OR PROPOSED COMPLIANCE POINTS AND PERIODS**

[R 299.9629(3)(a)(iv) and (v) and R 299.9629(3)(b)(iv) and (v)]

Please see Attachment A11 Closure and Postclosure Plan.

**B2.I OFF-SITE ACCESS**

Not applicable.

**B2.J PUBLIC INVOLVEMENT PLAN**

No corrective action plans are anticipated.

**B2.K HEALTH AND SAFETY PLAN**

No corrective action plans are anticipated.

**B2.L NOTICE REQUIREMENTS**

[R 299.9525]

The notice required under R 299.9525 was filed on October 27, 2000 with the Allegan County Register of Deeds. A revised deed notice reflecting all land within the future property boundary as described in Attachment XII-2 will be done upon acquisition of the additional land.

**B2.M JUSTIFICATION FOR PROPOSED ELIMINATION OF ANY WASTE MANAGEMENT UNIT FROM THE CORRECTIVE ACTION PROGRAM OR INTENT TO PROCEED WITH CORRECTIVE ACTIONS**

Not applicable.

FORM EQP 5111 TEMPLATE MODULE B3

**B3: Hydrogeologic Report**

**(Volume 1)**

This document is an attachment to the Michigan Department of Environment, Great Lakes, and Energy's *Instructions for Completing Form EQP 5111, Operating License Application Form for Hazardous Waste Treatment, Storage, and Disposal Facilities*. See Form EQP 5111 for details on how to use this attachment.

The administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), R 299.9506, R 299.9508, and R 299.9612 and Title 40 of the Code of Federal Regulations (CFR) §§264.94, 264.95, 264.97, 264.98, 270.13(10)(l), and 270.14(b)(19) establish requirements for hydrogeologic reports for hazardous waste management facilities. All references to 40 CFR citations specified herein are adopted by reference in R 299.11003.

This license application template addresses requirements for a hydrogeologic report for the hazardous waste management units and the hazardous waste management facility for DLD Environmental Services, Inc. facility in Plainwell, Michigan. This template includes hydrogeologic report requirements, waiver demonstrations, and alternative information requests for operating license applications. This hydrogeologic report supplies information to support the groundwater monitoring program, or groundwater monitoring waiver request, proposed and included in Template B5, Environmental Monitoring Programs.

*(Check as appropriate)*

Applicant for Operating License for Existing Facility:

- R 299.9506 hydrogeologic report
- A waiver for the hydrogeologic report is requested for one or more units
- Alternative information is proposed for information required in the hydrogeologic report for one or more units
- A waiver is requested for groundwater monitoring requirements for one or more units, and is included in Template B5

Applicant for Operating License for New, Altered, Enlarged, or Expanded Facility:

- R 299.9506 hydrogeologic report
- A waiver is requested for groundwater monitoring requirements for one or more units, and is included in Template B5



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### B3.A HYDROGEOLOGIC REPORT WAIVER REQUEST

[R 299.9508(2)]

- The existing hazardous waste units DLS-1, DLS-2, DLS-3, DLS-4, DLS-5, the hazardous waste loading bay (HWLB), and the proposed hazardous waste units DLS-7, DLS-8, DLS-9, DLS-10, DLS-11, DLS-12, DLS-20, DLS-21, DLS-22, DLS-23, Materials Control Enclosure (MCE1), and Explosives Bunker (XPB1), are not landfills, surface impoundments, waste piles, or land treatment units. All hazardous waste management activities take place inside or under a structure that provides protection from precipitation and runoff/runoff, and the unit is in compliance with the facility design and operating standards found in R 299.9604.

### B3.B SITE HYDROGEOLOGY

[R 299.9506 (1)(a) through (g) and 40 CFR, Part 265, Subpart F, and §§270.13(l), 270.14(b)(19), and 264.97]

This section presents a summary of DLD Environmental Services, Inc. facility's unit-specific groundwater monitoring data, an identification of all aquifers, hydrogeologic information on topographic maps, and identification of any plumes of contamination.

#### B3.B.1 Summary of Existing Information

[R 299.9506(1)(a)]

DLD's groundwater program is designed to provide additional protection of the groundwater by detecting releases from the hazardous waste management area to the upper most aquifer. It is designed to comply with the groundwater monitoring requirements found in R299.9612 and DLD's current Part B Operating license.

DLD's well monitoring program consists of six monitoring wells from which sampling occurs. Two well are located up gradient (DL-3, and DL-4) and four wells are located down gradient (DL-1, DL-5, A-5, and A-6 ) from DLD's facility.

There are five additional wells that are only used to measure static water levels (DL-2, A-3, A-4, A-14 and MW-10). A drawing of DLD and its monitoring wells may be found in Attachment B3-1. Water levels may be found in Attachment B3-10.

Analytical results may be found in Attachment B3-2. This data covers the latest five year period.

#### B3.B.2 Identification of Aquifers and Their Uses

[R 299.9506(1)(b), (c), and (d)]

- 1. Identification of the uppermost saturated zone (including any perched zones), the uppermost aquifer, and any aquifers hydraulically interconnected with the uppermost aquifer.**

The surface soils at the site consist of loamy fine sand to fine sand up to seven inches thick. The subsoil is a fine sand to depths of about five feet with ½ to 2-inch thick seams of sandy loam.

Beneath the surface soils are primarily sand and gravel that were deposited as glacial outwash sediments. These sediments extend to depths of 17 feet below the ground surface near Drug & Laboratory Disposal's building and to 56 feet at well A-13 which is on the northwest side of the facility.

Underlying the outwash sand and gravel sediments is a layer of silty clay. Various wells at the site have been drilled to and thru the clay surface. The thickness of the clay layer at the drill points is 38 feet. Attachments B3-3 and B3-4 are cross-sections of the site and surrounding area.

The uppermost aquifer under the DLD facility is the unconfined aquifer in the outwash sands. The bottom of the uppermost aquifer is the top of the underlying silty clay. This aquifer is a relatively homogenous, permeable sand aquifer.

Ref: Hall, H.C., 1980 Phase A, Geotechnical and Hydrogeological Engineering Report

**2. Identification of the flow direction and rate for the uppermost aquifer, and interconnected aquifers, along with the basis for this information.**

Groundwater at DLD has been impacted by various businesses in the area and the A-1 Disposal remediation site. In 1995 a groundwater Remedial Action Plan (RAP) was implemented. Flow direction, which is from the east southeast corner of DLD to the north northwest corner, was artificially directed by the remediation system installed on the A-1 Disposal site, which is adjacent to DLD. The remediation system removed water downgradient and recharged it into the groundwater at an upgradient position on the A-1 site. This system, which went into service in the first quarter of 1996, circulated approximately 80 gallons per minute and was shutdown through a formal closure process in 2016.

The groundwater flow rate under the DLD facility is approximately 0.089 gpd/ft<sup>2</sup>. (Please see Attachment B3-6 which shows flow calculations for 12/2/2021 and 06/02/2022.)

**3. Identification of all aquifers used by public and private wells within 2,000 feet of the site.**

There are no known public or private wells in use within 2,000 feet of the DLD site.

**4. Identification of all other aquifers evidenced by available boring or well logs.**

Well logs for surrounding area located in Attachment Module B5.

**B3.B.3 Topographic Map**  
[R 299.9506(1)(e)(i) through (v)]

A topographic map, in accordance with 40 CFR §270.14(b)(19), is included in Template A13 (See Volume 1, Attachment A13-1). This topographic map is at a scale of one inch equal to no more than 200 feet, showing a distance of 1000 feet around the facility perimeter.

**B3.B.3(a) Waste Management Area**  
[R 299.9506(1)(e)(i)]

Please see Section A1, Attachment A1-1.

**B3.B.3(b) Property Boundaries**  
[R 299.9506(1)(e)(ii)]

Please see Section A1, Attachment A1-1.

**B3.B.3(c) Point of Compliance**  
[R 299.9506(1)(e)(iii)]

The Point of Compliance has been designated as the four downgradient wells, designated as DL-1, DL-5, A-5 and A-6. Please see Attachment B3-1.

**B3.B.3(d) Groundwater Monitoring Wells**  
[R 299.9506(1)(e)(iv)]

DLD proposes that it keep the same six monitoring wells that are currently in use. Please see Attachment B3-1.

**B3.B.3(e) Aquifer Information**  
[R 299.9506(1)(e)(v)]

It is believed that the boundary's of the uppermost aquifer have not been identified.

**B3.B.3(f) Extent of Contaminant Plume**  
[R 299.9506(1)(g)(i)]

Not applicable.

**B3.B.4 Wells and Borings Within One Mile**  
[R 299.9506(1)(f)]

A topographic map has been included as Item X-3 of the Michigan Operating License Application for New, Altered, Enlarged, or Expanded Facility Operating License Application Form for Hazardous Waste Treatment, Storage, and Disposal Facilities (EQP 5111) and Attachment B3-7. They include the following information.

1. Locations for all domestic, municipal, oil and gas, industrial, and agricultural wells within one mile of the facility, for which logs are available, and
2. Available soil borings within one mile of the facility are available in Attachment B3-8.

**B3.B.5 Contaminant Plume Description**  
[R 299.9506(1)(g)]

No plume of contamination has entered the groundwater, at the time of the application, from any hazardous waste management unit or from any other regulated activity at the facility.

**B3.C ENGINEERING REPORT FOR PROPOSED GROUNDWATER MONITORING PROGRAM**  
[R 299.9506(2) and (7)]

The engineering information included in the hydrogeologic report supports the proposed groundwater monitoring programs or waiver requests included in this application as Template B5, Environmental Monitoring Programs, and Template B2, Corrective Action.

**B3.C.1 Waiver or Alternate Information Request**  
[R 299.9506(7)]

- Waiver is requested for R 299.9506(2)
- Alternate information is substituted for information requirements in R 299.9506(2)

**B3.C.2 Soil Borings, Sampling, and Testing**  
[R 299.9506(2)(a)(i) through (vi)]

A description of soil borings conducted, their locations, logs, and results from soil sampling and testing, is included in the sections below. This information thoroughly defines soil conditions at the site.

**B3.C.2(a) Number and Location of Soil Borings**  
[R 299.9506(2)(a)(i)]

Please see Attachment B3-8.

**B3.C.2(b) Soil Sampling and Testing**  
[R 299.9506(2)(a)(ii) and R 299.9506(6)(a)]

*Check the boxes below, as applicable:*

- The existing hazardous waste units DLS-1, DLS-2, DLS-3, DLS-4, DLS-5, the hazardous waste loading bay (HWLB), and the proposed hazardous waste units DLS-7, DLS-8, DLS-9, DLS-10, DLS-11, DLS-12, DLS-20, DLS-21, DLS-22, DLS-23, Materials Control Enclosure (MCE1), and Explosives Bunker (XPB1), are not surface impoundments, landfill waste piles, or land treatment areas. Soil sampling and testing information to meet requirements of R 299.9506(2)(a)(ii) is included in this section.

This information may be found in Attachment B3-5, B3-8 and the well logs for DLD's monitoring wells, Attachment B3-9.

- 1. A soil sample must be collected at each change in soil layers or lithology within each boring.*
- 2. Two of the required five borings must be logged using continuous sampling methods. For sites larger than five acres, one of each of the three additional required borings must be logged using continuous sampling methods.*
- 3. Samples that are collected from changes in layers or lithology must be tested for particle size distribution (using both a sieve and a hydrometer), and Atterberg limits. Samples must also be classified using the Unified Soil Classification System.*

*The applicant should also include a description of soil sampling methods used, and results of Standard Penetration Testing (using ASTM D1586-67).*

- The [Hazardous Waste Unit] unit is a landfill, surface impoundment, waste pile, or land treatment area. Soil sampling and testing to meet the requirements of R 299.9506(2)(a)(ii) and R 299.9506(6)(a) is included in this section.

This information may be found in Attachment B3-5, B3-8 and the well logs for DLD's monitoring wells, Attachment B3-9.

**B3.C.2(c) Soil Layer Evaluations**  
[R 299.9506(2)(a)(iii) and R 299.9506(6)(b)]

*Check the boxes below, as applicable:*

- The existing Hazardous waste units DLS-1, DLS-2, DLS-3, DLS-4, DLS-5, the hazardous waste loading bay (HWLB), and the proposed hazardous waste units DLS-7, DLS-8, DLS-9, DLS-10, DLS-11, DLS-12, DLS-20, DLS-21, DLS-22, DLS-23, Materials Control Enclosure (MCE1), and Explosives Bunker (XPB1), are not landfills, surface impoundments, waste piles, or land treatment areas. Soil layer evaluations are included to meet the requirements of R 299.9506(2)(a)(iii).

- The [*Hazardous Waste Unit*] unit is a landfill, surface impoundment, waste pile, or land treatment area. Soil layer evaluations have been included to meet the requirements of R 299.9506(2)(a)(iii) and R 299.9506(6)(b).

**B3.C.3 Observation Wells, and Well Clusters**  
[R 299.9506(2)(b) through (f)]

**B3.C.3(a) Static Water Levels, and Construction Details**  
[R 299.9506(2)(b)]

DLD's current groundwater monitoring system is described in B3.B1 Please see Attachment B3-8 for well construction details.

**B3.C.3(b) Groundwater Maps**  
[R 299.9506(2)(c) and (d)]

Please see Attachment B3-1.

**B3.C.3(c) Justification for Observation Well Locations**  
[R 299.9506(2)(e)]

"Observation" well sites were chosen by the DNRE during the year 2000 license applications. Static water levels included in Attachment B3-10 were recorded during the 1<sup>st</sup> and 2<sup>nd</sup> quarter sampling events of 2022.

**B3.C.3(d) Logs for Borings Completed as Observation Wells**  
[R 299.9506(2)(f)]

Well logs for the seven monitoring wells currently in use are in Attachment B3-9

**B3.D GROUNDWATER MONITORING PROGRAM**

[R 299.9506(3) through (5), R 299.9611(2)(b) and (3), R 299.9612, R 299.9629, and 40 CFR, Part 264, Subpart F, except 40 CFR §§264.94(a)(2) and (3), 264.94(b) and (c), 264.100, and 264.101 }

The summary of preapplication monitoring information and information included in the engineering report establish the basis for determining the appropriate groundwater monitoring program for each unit at the DLD Environmental Services, Inc. facility. The proposed detection monitoring and compliance monitoring programs for applicable units are included in Template B5, Environmental Monitoring Programs. The proposed corrective action groundwater monitoring program for applicable units is included in Template B5, Environmental Monitoring Programs, and Template B2, Corrective Action. The table below identifies unit-specific determinations for groundwater monitoring programs and is identical to the table included in Section B5.A of Template B5.

**Table B3.D.1**  
**Current & Proposed Unit-Specific Groundwater Monitoring Program**

Unit	Land Disposal Unit (Yes) <sup>1</sup>	Land Disposal Unit (No) <sup>2</sup>	Waiver <sup>3</sup>	Detection Monitorin <sup>4</sup>	Compliance Monitoring <sup>5</sup>	Corrective Action <sup>6</sup>
<b>Existing Containment Units</b>						
DLS-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HWLB-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Proposed Containment Units</b>						
DLS-7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-21	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MCE1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
XPB1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DLS-23	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>







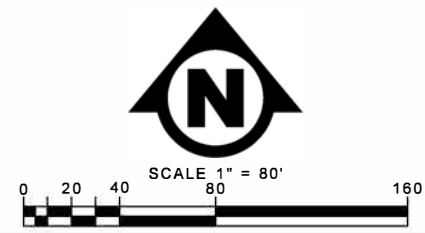
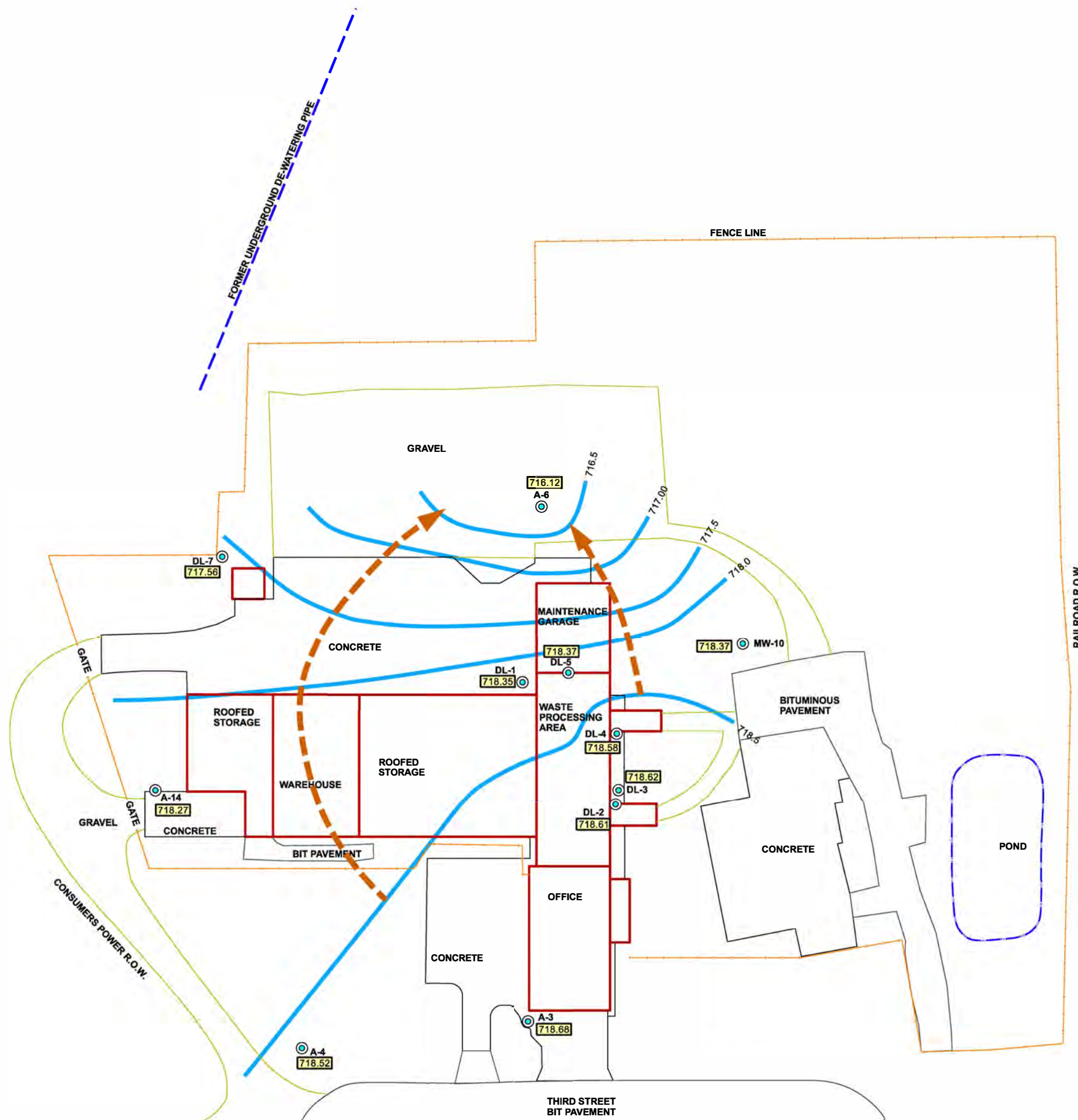
**B3.E ADDITIONAL INFORMATION REQUIREMENTS**  
[R 299.9506(6)]

*Check as appropriate:*

- The existing Hazardous waste units DLS-1, DLS-2, DLS-3, DLS-4, DLS-5, the hazardous waste loading bay (HWLB), and the proposed hazardous waste units DLS-7, DLS-8, DLS-9, DLS-10, DLS-11, DLS-12, DLS-20, DLS-21, DLS-22, DLS-23, Materials Control Enclosure (MCE1), and Explosives Bunker (XPB1), are not landfills, surface impoundments, waste piles, or land treatment units. The requirements of R 299.9506(6) do not apply.
  
- The [Hazardous Waste Unit] unit is a landfill, surface impoundment, waste pile, or land treatment unit. Additional information has been included to address requirements necessary to determine site suitability and facility design.

**LEGEND**

-  MONITORING WELL LOCATIONS
-  STATIC WATER LEVEL
-  GROUNDWATER CONTOUR LINE  
CONTOUR INTERVAL: AS SHOWN
-  DIRECTION OF GROUNDWATER MOVEMENT



NOTE:  
THIS IS NOT A PROPERTY BOUNDARY SURVEY. PROPERTY BOUNDARIES SHOWN ON THIS MAP ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

**DRUG AND LABORATORY DISPOSAL, INC.**  
331 BROAD ST.  
PLAINWELL, MI

**GROUNDWATER FLOW MAP**  
**JUNE 2, 2022**

  
**envirollogic**  
environmental consulting + services  
2960 INTERSTATE PARKWAY  
KALAMAZOO, MICHIGAN 49048  
PH: (269) 342-1100 FAX: (269) 342-4945

PROJECT NO.  
220150  
FIGURE No.  
ATTACHMENT  
**B3-1**

**Summary of Well Groundwater Concentrations (ug/L)  
Drug & laboratory Disposal, Inc., Plainwell, Michigan**

Constituent		03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21
DL-1	Acetone	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
	Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	1.6	<1.0	3.2	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	1,1-Dichloroethane	5.6	4	15	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	1,1-Dichloroethylene	5.4	<2.0	5.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloroethylene (total)	4.1	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.2
	1,2-Dichloropropane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	9.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	Ethyl benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	1,1,2,2-tetrachloroethan	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Tetrachloroethene	5.8	7.4	15	55	<2.0	6.8	6.6	5.6	6.9	<2.0	12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3	3	2.3
	1,1,1-trichloroethane	3.7	<2.0	6.4	10	<2.0	1.6	<2.0	<2.0	<2.0	<2.0	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	Trichloroethane	8.3	2.6	8.4	14	3.7	2.9	2.1	3.4	2.9	2.3	6.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	3.7	2.7
	Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Vinyl chloride	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Xylene (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
	Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	

**Summary of Well Groundwater Concentrations (ug/L)**  
**Drug & laboratory Disposal, Inc., Plainwell, Michigan**

Constituent	03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21
<b>DL-3</b> Acetone	<100	<100	<100	190	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	1.1	1.6	3.2	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	2	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethane	2.9	2.6	8.6	3.9	<2.0	3.8	<2.0	<2.0	<2.0	<2.0	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethylene	3.7	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (total)	<2.0	2.6	2.9	2.2	<2.0	<2.0	<2.0	<2.0	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	28.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethyl benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
Methylene chloride	<10	<10	<10	<10	<10	3.6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-tetrachloroethan	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	16	15	28	26	<2.0	14	47	29	<2.0	<2.0	29	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	17	4.6
1,1,1-trichloroethane	2	2.4	6.7	10	<2.0	3	<2.0	2.6	2.8	<2.0	9.8	2.8	<2.0	<2.0	<2.0	7.7	<2.0	<2.0	2.1	<2.0
1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethane	7.2	2.8	7.7	3.3	8.5	3.1	6	6.2	9	3.3	21	6.8	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Xylene (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800

**Summary of Well Groundwater Concentrations (ug/L)  
Drug & laboratory Disposal, Inc., Plainwell, Michigan**

Constituent		03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21	
DL-4	Acetone	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
	Benzene	1.2	5.4	2.6	3.2	1	<1.0	6.3	<1.0	3.4	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3	3.9	<1.0	
	Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
	Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	Chlorobenzene	<1.0	<1.0	7.3	6.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	5.5	<1.0
	Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	1,1-Dichloroethane	14	26	18	47	20	16	27	4	<2.0	<2.0	20	12	<2.0	<2.0	<2.0	2.5	<2.0	13	14	<2.0	<2.0
	1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	49	<10	<10
	1,1-Dichloroethylene	2.1	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloroethylene (total)	<2.0	2.1	4.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0
	1,2-Dichloropropane	11	15	5.7	10	<3.0	5.4	<3.0	<3.0	2.3	<3.0	9.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.3	3.7	<3.0
	cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	Ethyl benzene	<1.0	9.9	2.8	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	76	77	<1.0
	Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	1,1,2,2-tetrachloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Tetrachloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,1-trichloroethane	3	4.8	<2.0	<2.0	2.3	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	5.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	2.3	<2.0
	1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	Trichloroethane	<2.0	<2.0	<2.0	3.1	<2.0	1.5	5.5	<2.0	3.3	5	7.6	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2	3.8	<2.0
	Toluene	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Vinyl chloride	<10	<10	22	<10	10	7.5	<10	<10	<10	<10	29	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Xylene (total)	<5.0	103	<5.0	<5.0	60	<5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0	60	<5.0	<5.0	<5.0	<5.0	<5.0	71	84	<5.0
	Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
	Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800

Summary of Well Groundwater Concentrations (ug/L)  
Drug & laboratory Disposal, Inc., Plainwell, Michigan

Constituent	03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21
DL-5 Acetone	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	1	2.6	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethane	5	11	15	<2.0	<2.0	2.4	2.5	2.2	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethylene	3.6	<2.0	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (total)	4.6	2.3	9.1	<2.0	<2.0	1.1	<2.0	<2.0	<2.0	6.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	29	<2.0	<2.0
1,2-Dichloropropane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethyl benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-tetrachloroethan	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	3.1	5.3	14	5.6	<2.0	3.1	4.6	4	<2.0	<2.0	10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.5	3.3
1,1,1-trichloroethane	<2.0	3.3	5.9	<2.0	<2.0	1.4	<2.0	<2.0	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethane	8.1	6.6	12	5.1	<2.0	5.2	5.8	8.8	4.1	5.5	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Xylene (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800

Summary of Well Groundwater Concentrations (ug/L)  
Drug & laboratory Disposal, Inc., Plainwell, Michigan

Constituent	03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21
DL-6 Acetone	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	7.7	2.4	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	32	<10	24	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (total)	2.1	<2.0	<2.0	<2.0	<2.0	39	<2.0	110	<2.0	7.8	<2.0	16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	140	<2.0
1,2-Dichloropropane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethyl benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-tetrachloroethan	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	5	2.7	12	<2.0	<2.0	2.1	<2.0	4.4	<2.0	<2.0	<2.0	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-trichloroethane	<2.0	<2.0	2	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	10	<2.0	<2.0	<2.0	3.2	<2.0	<2.0	9.2	<2.0
1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethane	6.7	3	7.4	<2.0	<2.0	55	61	190	25	12	<2.0	42	3.4	<2.0	<2.0	5.9	2.5	6	289	3.7
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	3.7	<10	11	5.2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Xylene (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800

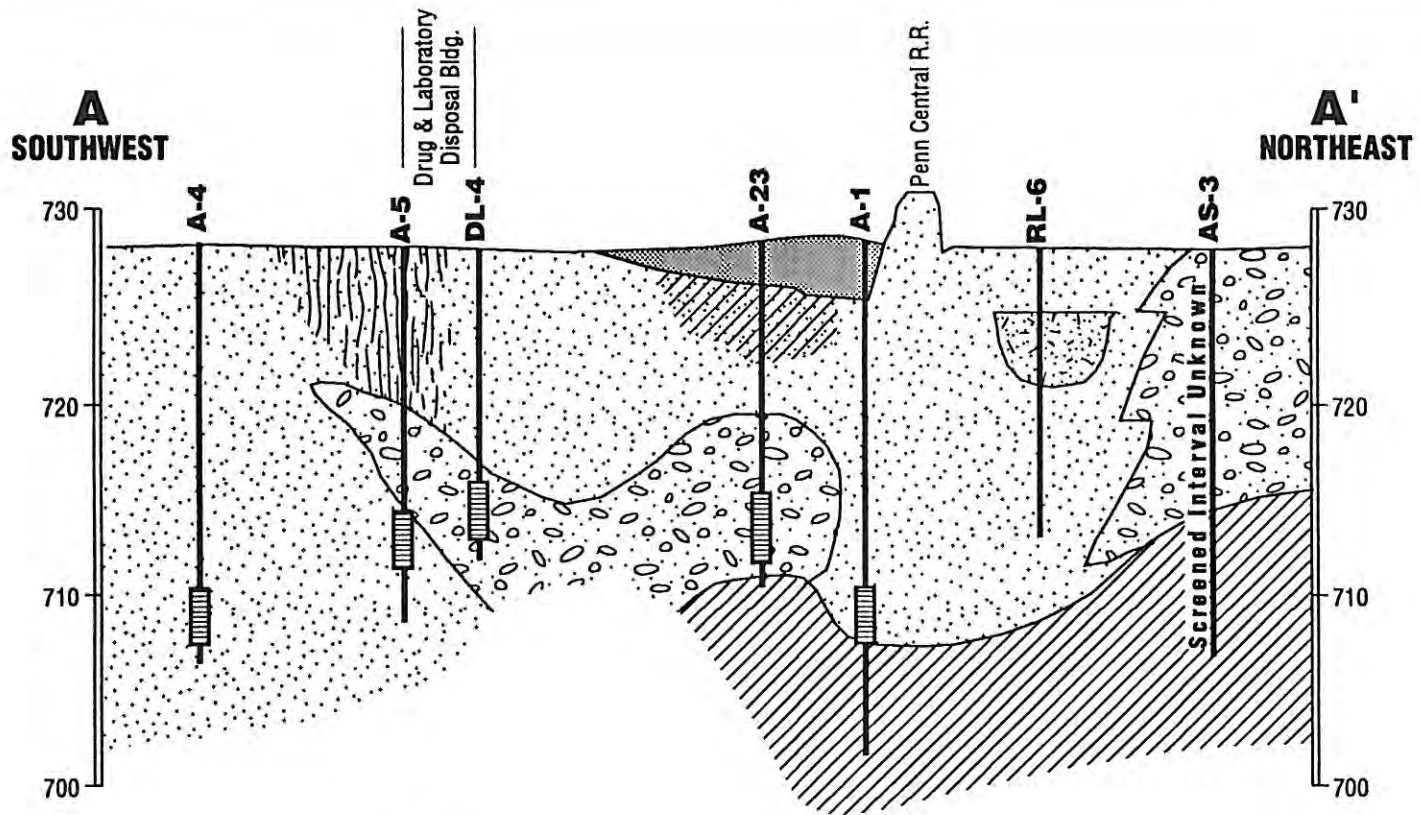
**Summary of Well Groundwater Concentrations (ug/L)  
Drug & laboratory Disposal, Inc., Plainwell, Michigan**

Constituent		03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21	
A-5	Acetone	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
	Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
	Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
	Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	1,1-Dichloroethane	5.8	5.1	7.8	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	1,1-Dichloroethylene	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloroethylene (total)	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,2-Dichloropropane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	Ethyl benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	1,1,2,2-tetrachloroethan	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Tetrachloroethene	10	3.4	8.1	2.6	<2.0	2.6	3	4.1	3.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0
	1,1,1-trichloroethane	3.9	<2.0	<2.0	<2.0	<2.0	1.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	Trichloroethane	7.1	2.2	3.1	<2.0	<2.0	1.8	<2.0	2.9	2.9	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Xylene (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
	Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	











Summary of Well Groundwater Concentrations (ug/L)  
Drug & laboratory Disposal, Inc., Plainwell, Michigan

Constituent	03/17	06/17	09/17	12/17	03/18	06/18	09/18	12/18	03/19	06/19	09/19	12/19	03/20	06/20	09/20	12/20	03/21	06/21	09/21	12/21
A-6 Acetone	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromoform	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
Bromomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon tetrachloride	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	1.9	1.2	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethane	6.6	4.7	18	<2.0	<2.0	2.6	<2.0	4.8	2.2	4.7	3	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	4.9	2.3	<2.0
1,2-Dichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1-Dichloroethylene	11	<2.0	9.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (total)	4.4	<2.0	3	<2.0	<2.0	1.4	<2.0	3.6	2.3	4.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.8	<2.0
1,2-Dichloropropane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
cis-1,3-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
trans-1,2-dichloropropene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	8	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Ethyl benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-tetrachloroethan	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrachloroethene	7.2	12	16	6.1	2.7	5.3	5.7	9.4	5.3	<2.0	8.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3
1,1,1-trichloroethane	6	2.5	9.1	<2.0	<2.0	1.5	<2.0	2.3	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1
1,1,2-trichloroethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethane	10	4.4	15	2.4	2.2	4	3.1	8.7	6.2	4.5	6.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.8	2.4
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Xylene (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetonitrile	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800
Ethyl acetate	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexane	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methanol	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800



**LEGEND**

-  Topsoil
-  Sand & Gravel
-  Sand
-  Sand, Silty
-  Sand, Clayey
-  Sand w/ Heavy Gray Sludge
-  Clay
-  Well Screen

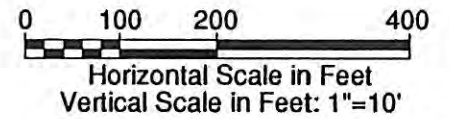
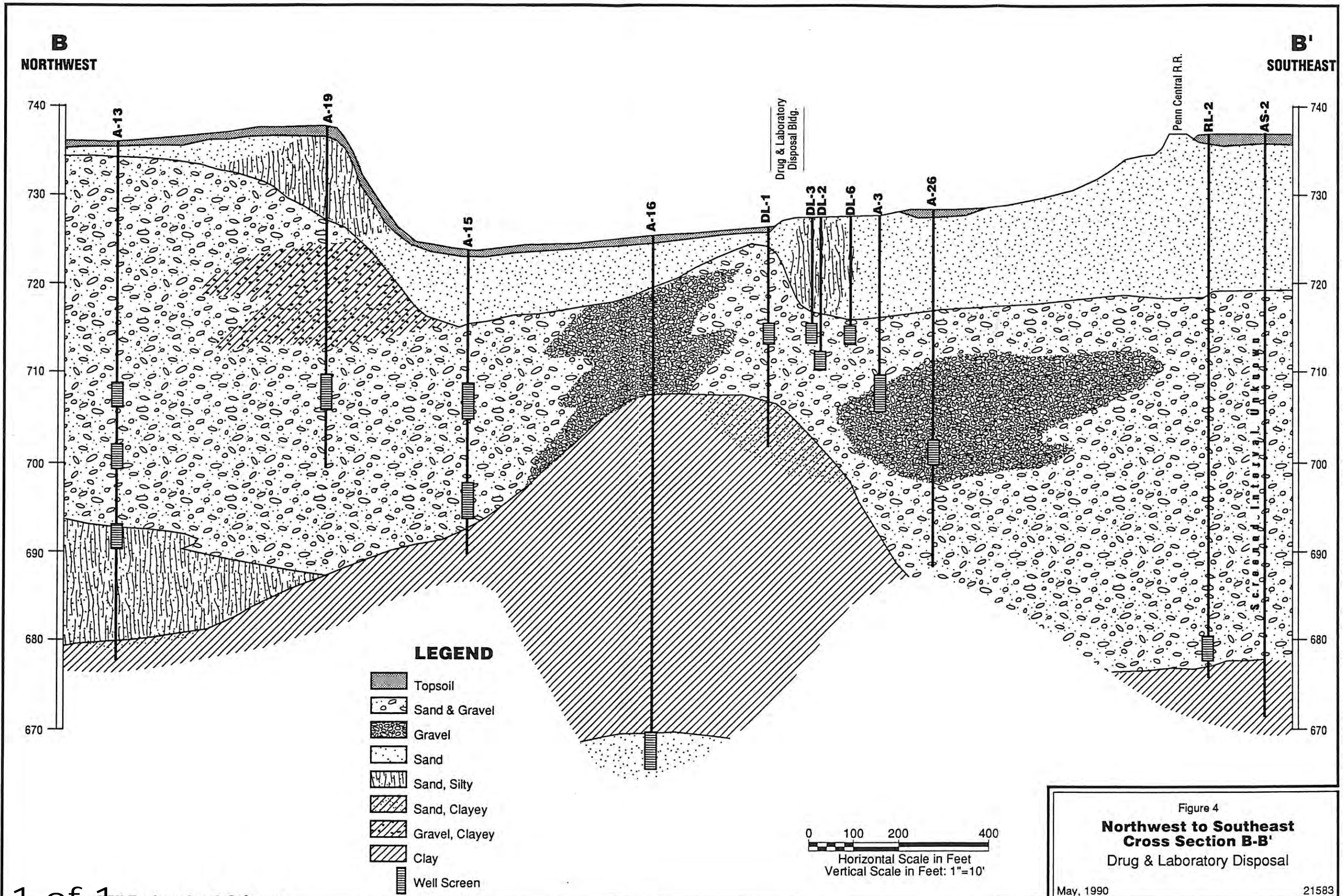


Figure 3  
**Southwest to Northeast  
 Cross Section A-A'**  
 Drug & Laboratory Disposal  
 April, 1990 21583



GEOLOGICAL SURVEY SAMPLE No.

0V 13 1977

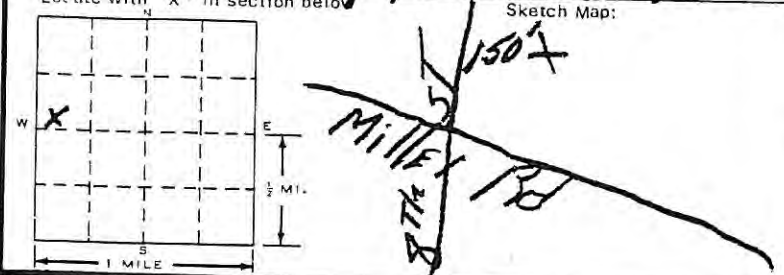
**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

**1 LOCATION OF WELL**

County: ALLEGAN Township Name: GUN PLAIN Fraction: NW 1/4 SW 1/4 Section Number: 21 Town Number: 1 Range Number: 11 E/W.

Distance and Direction from Road Intersections:  
10 MIN. OF MILLET RD ON 8TH ST  
497 - 8TH ST PLAINWELL MI



3 OWNER OF WELL: TOMAS MEYTES

Address: 833 - 10TH AVE  
PLAINWELL Mich

4 WELL DEPTH: (completed) Date of Completion  
42 ft. OCT 11 - 78

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7 CASING: Threaded  Welded  Height: Above/Below Surface 1 ft.

2 in. to 38 ft. Depth Weight 3.75 lbs./ft.  
2 in. to 38 ft. Depth Drive Shoe? Yes  No

**2 FORMATION**

THICKNESS OF STRATUM DEPTH TO BOTTOM OF STRATUM  
SAND & GRAVEL 42' 42'

8 SCREEN: Type: STAINEX Dia.: 1 1/4"

Slot/Grze 10 Length 4'

Set between 38 ft. and 42 ft.

Fittings: 1 1/4" coupling

9 STATIC WATER LEVEL 15 ft. below land surface

10 PUMPING LEVEL below land surface 15 ft. after 1 hrs. pumping 12 g.p.m.

15 ft. after 1 hrs. pumping 12 g.p.m.

11 WATER QUALITY in Parts Per Million:  
Iron (Fe) NOT KNOWN Chlorides (Cl)

Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  In Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite

Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

14 Nearest Source of possible contamination 75 feet N/E Direction SEPTIC Type

Well disinfected upon completion  Yes  No

15 PUMP:  Not installed  
Manufacturer's Name TAIT

Model Number 10E7 HP 1 Volts 230

Length of Drop Pipe 21 ft. capacity 12 G.P.M.

Type:  Submersible  Jet  Reciprocating

16 Remarks, elevation, source of data, etc.

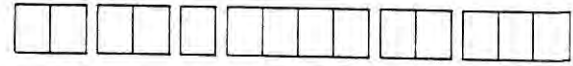
ADDED INFO BY DRILLER, ITEM NO.  
\*CORRECTED BY dl  
\*\*ADDITION BY  
ELEVATION  
DEPTH TO ROCK

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BAKER Well Drilling #488  
REGISTERED BUSINESS NAME REGISTRATION NO.

Address 300 SHEYWOOD ST & 1500  
Signed Pip Baker Date OCT-14-78  
AUTHORIZED REPRESENTATIVE



**WATER WELL RECORD**

ACT 294 RA 1965

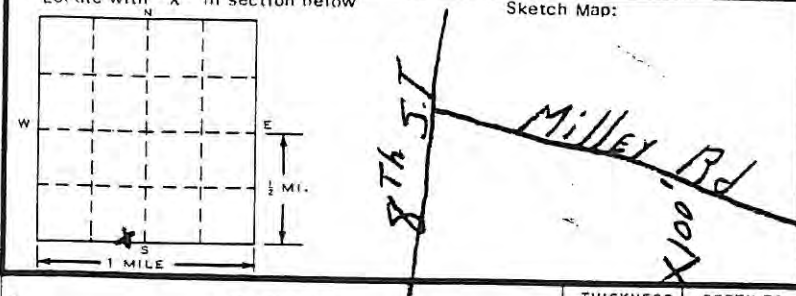
MICHIGAN DEPARTMENT OF PUBLIC HEALTH

**1 LOCATION OF WELL**

County: ALLEGAN Township Name: GUN PLAIN Fraction: S 1/4 S 31/4 Section Number: 21 Town Number: 1 N/8 Range Number: 11 E/W

Distance And Direction from Road Intersections: 1/4 MILE SE. OF 8TH ST ON MILLEY RD  
720 MILLEY RD  
 Street address & City of Well Location: PLAINWELL, MICH

3 OWNER OF WELL: LYNN LUKINS  
 Address: 926 JAMES ST  
PLAINWELL, MICH



4 WELL DEPTH: (completed) Date of Completion  
29 ft. MAY 25-73

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>SAND &amp; GRAVEL</u>	<u>29'</u>	<u>29'</u>

7 CASING: Threaded  Welded   
 Diam. \_\_\_\_\_ Height: Above/Below Surface 1 ft.  
 2 in. to 25 ft. Depth Weight 3.65 lbs./ft.  
 2 in. to 26 ft. Depth Drive Shoe? Yes  No

8 SCREEN:  
 Type: STRAINER Dia.: 1 1/4"  
 Slot/Gauge 10 Length 4"  
 Set between 25 ft. and 29 ft.  
 Fittings: 1-1 1/4" coupling

9 STATIC WATER LEVEL  
10 ft. below land surface

10 PUMPING LEVEL below land surface  
20 ft. after 1 hrs. pumping 10 g.p.m.  
20 ft. after 1 hrs. pumping 10 g.p.m.

11 WATER QUALITY in Parts Per Million:  
 Iron (Fe) NOT KNOWN Chlorides (Cl) \_\_\_\_\_  
 Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  In Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite   
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

14 Nearest Source of possible contamination  
Abt feet 75 Direction SEPTIC Type \_\_\_\_\_  
 Well disinfected upon completion  Yes  No

15 PUMP:  Not installed  
 Manufacturer's Name \_\_\_\_\_  
 Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
 Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
 Type:  Submersible  Jet  Reciprocating

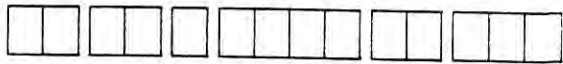
16 Remarks, elevation, source of data, etc.  
 ADDED INFO. BY DRILLER, ITEM NO. \_\_\_\_\_  
 CORRECTED BY: [Signature]  
 ADDITION BY: \_\_\_\_\_

17 WATER WELL CONTRACTOR'S CERTIFICATION:  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
BAKEYS Well Drilling 0488  
 REGISTERED BUSINESS NAME REGISTRATION NO. \_\_\_\_\_  
 Address 300 SHERWOOD ST OTSEGO, MICH  
 Signed Bjorn Baker AUTHORIZED REPRESENTATIVE Date MAY-26-73

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

1 LOCATION OF WELL				
County <b>ALLEGAN</b>	Twp. <b>GUNPLAIN</b>	Section <b>21</b>	Town <b>1 N.P.</b>	Range <b>11 E/W.</b>
Distance And Direction from Road Intersection <b>3/4 MILE S.E. OF 8TH ST ON MILLEY RD</b>			OWNER No. <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span>	
Street address & City of Well Location <b>736 MILLEY RD PLAINWELL, MICH</b>			3 OWNER OF WELL: <b>DON TUNGATE</b> Address <b>736 MILLEY RD PLAINWELL, MICH</b>	
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Date of Completion <b>26 ft. Aug 13-74</b>	
<b>SAND &amp; GRAVEL</b>	<b>19'</b>	<b>19'</b>	5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>	
<b>BROWN CLAY &amp; SAND</b>	<b>3'</b>	<b>22'</b>	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>	
<b>SAND &amp; GRAVEL</b>	<b>4'</b>	<b>26'</b>	7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below surface <b>1</b> ft. Diam. <b>2 1/2</b> in. to <b>22</b> ft. Depth Weight <b>3.65</b> lbs/ft. <b>2 1/2</b> in. to <b>22</b> ft. Depth Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
			8 SCREEN: Type: <b>STRAINER</b> Dia.: <b>1 1/2"</b> Slot/Gauze <b>10</b> Length <b>4'</b> Set between <b>22</b> ft. and <b>26</b> ft. Fittings: <b>1 1/2" coupling</b>	
			9 STATIC WATER LEVEL <b>17</b> ft. below land surface	
			10 PUMPING LEVEL below land surface <b>20</b> ft. after <b>1</b> hrs. pumping <b>10</b> g.p.m. <b>20</b> ft. after <b>1</b> hrs. pumping <b>10</b> g.p.m.	
			11 WATER QUALITY in Parts Per Million: Iron (Fe) <b>NOT KNOWN</b> Chloride (Cl) Hardness <b>NOT KNOWN</b>	
			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade	
			13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> Depth: From <b>    </b> ft. to <b>    </b> ft.	
			14 SANITARY: Nearest Source of possible contamination <b>SEPTIC TANK IN YET</b> Type <b>    </b> Direction <b>    </b> Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			15 PUMP: Manufacturer's Name <b>JAI T</b> Model Number <b>10E2</b> HP <b>1</b> Length of Drop Pipe <b>13</b> ft. capacity <b>12</b> G.P.M. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating	
16 Remarks, elevation, source of data, etc.  <b>    </b>  <b>    </b>			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>BAKERS Well Drilling 0458</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>300 SHAWWOOD ST - OTEGO</b> Signed <b>Peg Baker</b> Date <b>AUG 19-74</b> AUTHORIZED REPRESENTATIVE	



**WATER WELL RECORD**

ACT 294 PA 1865

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

**1 LOCATION OF WELL**

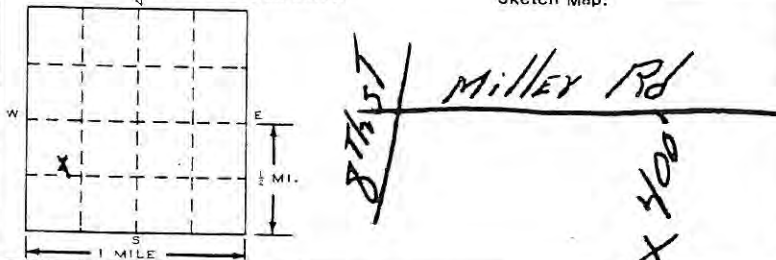
County ALLEGAN Township Name GUN PLAIN Section Number 21 Town Number 1 Range Number 11 E/W.

Distance and Direction from Road Intersections  
40 M SE of 8th St on Milley Rd  
736 Milley Rd Plainwell, Mich

Street address & City of Well Location

Locate with "X" in section below

Sketch Map:



**3 OWNER OF WELL:** DOM TUNGATE  
 Address 736 Milley Rd  
PLAINWELL, Mich

**4 WELL DEPTH:** (completed) 42 ft. Date of Completion Nov. 1-74

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded   
 Diam. \_\_\_\_\_ Height: Above/Below Surface 1 ft.  
 Weight 3.65 lbs./ft.  
 Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>SAND &amp; GRAVEL &amp; BROWN CLAY</u>	<u>18'</u>	<u>18'</u>
<u>SAND &amp; GRAVEL</u>	<u>24'</u>	<u>42'</u>

**8 SCREEN:**  
 Type: STRAINER Dia.: 1 1/4"  
 Slot: 10 Length: 4'  
 Set between 38 ft. and 42 ft.  
 Fittings: 1 1/4" coupling

**9 STATIC WATER LEVEL**  
26 ft. below land surface

**10 PUMPING LEVEL** below land surface  
36 ft. after 1 hrs. pumping 12 g.p.m.

36 ft. after 1 hrs. pumping 12 g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
 Iron (Fe) NOT Chlorides (Cl) NOT  
 Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source** of possible contamination  
250 feet NW Direction SEPTIC Type  
 Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
 Manufacturer's Name TAIT  
 Model Number 1012 HP 1 Volts 220  
 Length of Drop Pipe 32 ft. capacity 12 G.P.M.  
 Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

DRILLED BY DRILLER. ITEM NO. \_\_\_\_\_  
 REGISTERED BY \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

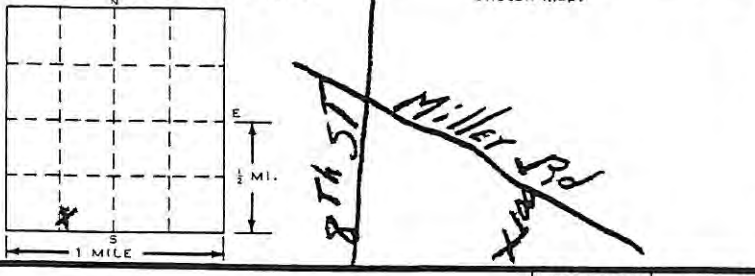
**17 WATER WELL CONTRACTOR'S CERTIFICATION:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
BAKER'S WELL DRILLING 0488  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address 300 Sherwood St Otsego  
 Signed Pip Baker Date Nov. 2-74  
 AUTHORIZED REPRESENTATIVE

**MAR 1 1974**

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>				<b>3 OWNER OF WELL:</b>												
County <b>ALLEGAN</b>		Township Name <b>GUN PLAIN</b>		Fraction <b>SUBSECU.</b>		Section Number <b>21</b>										
Distance & Direction from Road Intersection <b>1/2 MILE S.W. OF 8TH ST ON Miller Rd</b>		Street address & City of Well Location <b>728-E Miller Rd PLAINWELL, MICH</b>		Town Number <b>1 N.B.</b>		Range Number <b>11 E.W.</b>										
Locate with "X" in section below 				<b>4 WELL DEPTH: (completed) Date of Completion</b> <b>29 ft. FEB 25-74</b>												
<b>2 FORMATION</b>				<b>5</b>												
				<input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>												
<table border="1"> <thead> <tr> <th></th> <th>THICKNESS OF STRATUM</th> <th>DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td><b>BROWN CLAY SAND &amp; GRAVEL</b></td> <td><b>16'</b></td> <td><b>16'</b></td> </tr> <tr> <td><b>SAND &amp; GRAVEL</b></td> <td><b>13'</b></td> <td><b>29'</b></td> </tr> </tbody> </table>					THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<b>BROWN CLAY SAND &amp; GRAVEL</b>	<b>16'</b>	<b>16'</b>	<b>SAND &amp; GRAVEL</b>	<b>13'</b>	<b>29'</b>	<b>6 USE:</b>			
	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM														
<b>BROWN CLAY SAND &amp; GRAVEL</b>	<b>16'</b>	<b>16'</b>														
<b>SAND &amp; GRAVEL</b>	<b>13'</b>	<b>29'</b>														
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				<b>7 CASING:</b>												
				Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above <del>Surface</del> Surface <b>1</b> ft. Diam.    Weight <b>3.65</b> lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
				<b>8 SCREEN:</b>												
				Type: <b>STRAINER</b> Dia.: <b>1 1/4"</b> Slot/Screen <b>10</b> Length <b>4'</b> Set between <b>25</b> ft. and <b>29</b> ft. Fittings: <b>1 1/4" coupling</b>												
				<b>9 STATIC WATER LEVEL</b>												
				<b>20</b> ft. below land surface												
				<b>10 PUMPING LEVEL below land surface</b>												
				<b>23</b> ft. after <b>1</b> hrs. pumping <b>10</b> g.p.m.												
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				<b>11 WATER QUALITY in Parts Per Million:</b>												
				Iron (Fe) <b>NOT KNOWN</b> Chlorides (Cl) _____												
				Hardness _____ Other _____												
				<b>12 WELL HEAD COMPLETION:</b>												
				<input type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade												
				<b>13 Well Grouted?</b>												
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/>												
				Depth: From _____ ft. to _____ ft.												
				<b>14 Nearest Source of possible contamination</b>												
				<b>75</b> feet <b>N.W.</b> Direction <b>SEPTIC</b> Type												
				Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
				<b>15 PUMP:</b>												
				<input checked="" type="checkbox"/> Not installed												
				Manufacturer's Name _____												
				Model Number _____ HP _____ Volts _____												
				Length of Drop Pipe _____ ft. capacity _____ G.P.M.												
				Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating												

USE A-200 SHEET, IF NEEDED

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.  
CORRECTED BY  
ADDITION BY  
ELEVATION  
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**BAKER'S Well Drilling 0488**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **300 SHERWOOD ST OSHTAGO, MICH.**  
Signed **Rijo Baker** Date **FEB-25-74**  
AUTHORIZED REPRESENTATIVE

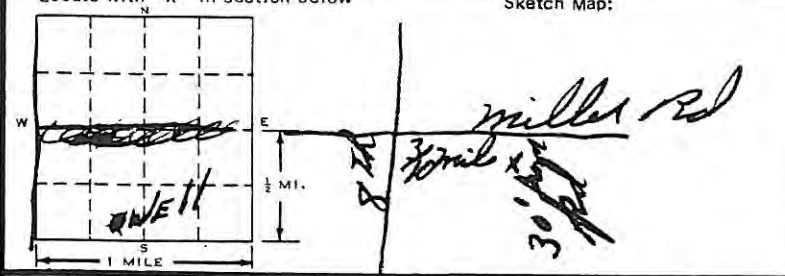


OCT 26 1970

**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>			<b>3 OWNER OF WELL:</b>														
County <u>Allegan</u>	Township Name <u>Hamplain</u>	Fraction <u>NE 1/4 Sec 21</u>	Section Number <u>21</u>	Town Number <u>1 N/8</u>	Range Number <u>11 E/W</u>												
Distance And Direction from Road Intersection <u>30 miles E. of 8th St on Miller Rd</u> <u>742 E. Miller Rd Plainwell, Mich</u>			Address <u>742 E. Miller Rd</u> <u>Plainwell, Mich</u>														
Street address & City of Well Location <u>Plainwell, Mich</u>			Date of Completion <u>Oct 8-70</u>														
Locate with "X" in section below 			4 WELL DEPTH: (completed) <u>41 ft.</u>														
<b>2 FORMATION</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">FORMATION</th> <th style="width: 15%;">THICKNESS OF STRATUM</th> <th style="width: 25%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td><u>Brown clay sand &amp; gravel</u></td> <td><u>11'</u></td> <td><u>11'</u></td> </tr> <tr> <td><u>Blue clay sand &amp; gravel</u></td> <td><u>26'</u></td> <td><u>37'</u></td> </tr> <tr> <td><u>Coarse sand &amp; gravel</u></td> <td><u>4'</u></td> <td><u>41'</u></td> </tr> </tbody> </table>			FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<u>Brown clay sand &amp; gravel</u>	<u>11'</u>	<u>11'</u>	<u>Blue clay sand &amp; gravel</u>	<u>26'</u>	<u>37'</u>	<u>Coarse sand &amp; gravel</u>	<u>4'</u>	<u>41'</u>	5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>		
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7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface <u>1</u> ft. Weight <u>3.65</u> lbs./ft. Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																	
8 SCREEN: Type: <u>Johnson Strainer</u> <u>1 1/4"</u> Slot/Screen <u>10</u> Length <u>4'</u> Set between <u>37</u> ft. and <u>41</u> ft. Fittings: <u>2-1 1/4" coupling 1 ft of 1 1/4" pipe</u>																	
9 STATIC WATER LEVEL <u>18</u> ft. below land surface			10 PUMPING LEVEL below land surface <u>30</u> ft. after <u>1</u> hrs. pumping <u>10</u> g.p.m. <u>30</u> ft. after <u>1</u> hrs. pumping <u>10</u> g.p.m.														
11 WATER QUALITY in Parts Per Million: Iron (Fe) <u>NOT KNOWN</u> Chlorides <u>NOT KNOWN</u> Hardness _____ Other _____			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade														
13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From _____ ft. to _____ ft.			14 Nearest Source of possible contamination: <u>75 feet W</u> Direction <u>Syptic</u> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <u>NOT KNOWN</u> Model Number _____ HP _____ Volts _____ Length of Drop Pipe <u>27</u> ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating			16 Remarks, elevation, source of data, etc.  ADDED INFO. BY DRILLER, ITEM NO.  *CORRECTED BY:  **ADDITION BY:														
17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>Baker Well Drilling 0488</u> REGISTERED BUSINESS NAME    REGISTRATION NO. Address <u>300 Sheward St. Stego, Mich</u> Signed <u>Rip Baker</u> Date <u>Oct 13-70</u> AUTHORIZED REPRESENTATIVE																	

20-1N-11W TD 1520 in Traverse  
 San Plains Exp., (Alleghen County) (Dry)

R. B. Hamblin Development Co.  
 F. L. Parker #1 Permit #11490  
 Drilling Contractor: Own tools (Cable)

Location: SW $\frac{1}{4}$  NE $\frac{1}{4}$  SW $\frac{1}{4}$  section 20, T.1N., R.11W.  
 990' from north and 990' from east line of quarter section.

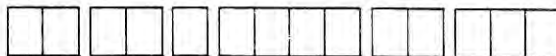
Elevation: 730.4 feet above sea level.

Record by: D. Myers from driller's log.

	Thickness (feet)	Depth (feet)
<b>PLEISTOCENE:</b>		
Drift:		
Drift	115	115
<b>MISSISSIPPIAN:</b>		
Coldwater:		
Shale, blue	270	385
Coldwater lime (2 bailers water overnight)	20	405
Shale, blue	362	767
Coldwater red block	15	782
Shale, blue	28	810
Coldwater Red Rock	15	825
Ellsworth:		
Shale, green	366	1191
<b>MISSISSIPPIAN-DEVONIAN:</b>		
Antrim:		
Shale, brown	155	1346
<b>DEVONIAN:</b>		
Traverse Formation:		
Shale, gray	67	1413
Traverse lime (1000' water in hole)	107	1520
(Preliminary report 125' water in 10 minutes at 1413 and 1300' water at 1413-19')		
TOTAL DEPTH		1520
(Preliminary report Total depth 1515)		
<b>Casing record:</b>		
8 $\frac{1}{4}$ "	130'	Commenced: 4-23-45
6-5/8"	421'	Completed: 6-6-45
5-3/16"	1390' RH	Initial production: Dry Hole.

GEOLOGICAL SURVEY SAMPLE No.

3 JUN 03 1974



**WATER WELL RECORD**

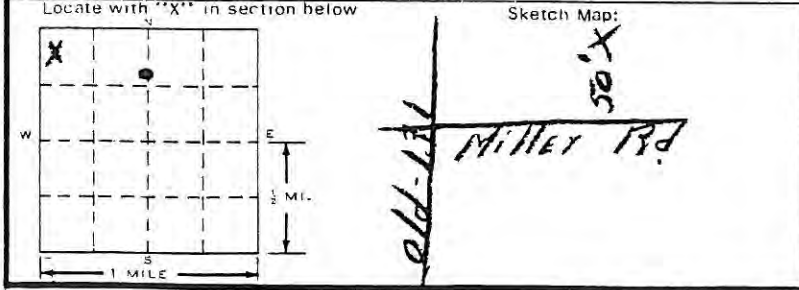
MICHIGAN DEPARTMENT OF PUBLIC HEALTH

ACT 294 PA 1965  
 E E NE NW

1 LOCATION OF WELL				
County <b>ALLEGAN</b>	Township Name <b>GUNPLAIN</b>	Fraction <b>NE NE NW</b>	Section Number <b>2019</b>	Town Number <b>1 N.E.</b> Range Number <b>11 E/W.</b>

Distance and Direction from Road Intersections  
**1/4 MILE E OF OR 131 ON MILLET RD**  
**983 MILLET RD PLAINWELL, MICH**  
 Street address & City of Well Location

3 OWNER OF WELL: **CAYI NAST**  
 Address **157 STRAFORD DR. BATTLE CREEK**



4 WELL DEPTH: (completed) Date of Completion  
**40 ft. MAY 23-74**

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7 CASING: Threaded  Welded   
 Diam. \_\_\_\_\_ Height: Above/Below Surface **1** ft.  
 Weight **365** lbs./ft. Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<b>SAND &amp; GRAVEL</b>	<b>15'</b>	<b>15'</b>
<b>BROWN CLAY</b>	<b>3'</b>	<b>18'</b>
<b>SAND &amp; GRAVEL</b>	<b>22'</b>	<b>40'</b>

8 SCREEN:  
 Type: **STRAINER** Dia.: **1 1/4"**  
 Slot/Groove **10** Length **4'**  
 Set between **36** ft. and **40** ft.  
 Fittings: **1 1/4" coupling**

9 STATIC WATER LEVEL  
**6** ft. below land surface

10 PUMPING LEVEL below land surface  
**30** ft. after **1** hrs. pumping **10** g.p.m.  
**30** ft. after **1** hrs. pumping **10** g.p.m.

11 WATER QUALITY in Parts Per Million:  
 Iron (Fe) **NOT KNOWN** Chlorides (Cl)  
 Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  in Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite   
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

14 Nearest Source of possible contamination  
**75** feet **N** Direction **SEPTIC** Type  
 Well disinfected upon completion  Yes  No

15 PUMP:  Not installed  
 Manufacturer's Name **TAIT**  
 Model Number **55TA** HP **1/2** Volts **115**  
 Length of Drop Pipe **21** ft. capacity **10** G.P.M.  
 Type:  Submersible  Jet  Reciprocating

16 Remarks, elevation, source of data, etc.  
**ADDED INFO BY DRILLER: THIS WELL**  
 INSPECTED BY **BT**  
 ACCEPTED BY \_\_\_\_\_  
 DATE \_\_\_\_\_

17 WATER WELL CONTRACTOR'S CERTIFICATION:  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**BAKEY WELL DRILLING 0488**  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address **300 SHEXWOOD ST OREGON, MICH**  
 Signed **Pip Baker** Date **MAY 23-74**  
 AUTHORIZED REPRESENTATIVE

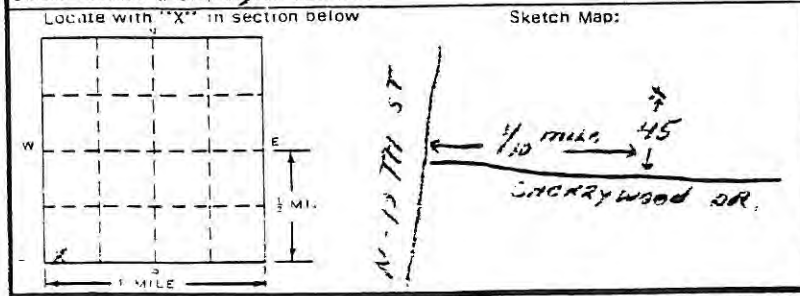
**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

**1 LOCATION OF WELL**

County <u>Alcona</u>	Township Name <u>Plain Plains</u>	Fraction <u>SW 1/4 Sec 20</u>	Section Number <u>20</u>	Town Number <u>1 N/8</u>	Range Number <u>11 E/W</u>
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Distance and Direction from Road Intersections  
well 15' North of Cherrywood Dr  
1/10 mile east of N-10th St  
25 Cherrywood Dr  
 Street address & City of well location  
Plainville, Mich.



**3 OWNER OF WELL:** Year Induction  
 Address: 745 Cherrywood Drive  
Plainville, Mich.

**4 WELL DEPTH:** (completed) 41 ft. Date of Completion 10-15-73

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above/Below Surface 1 ft.  
 2 in. to 30 ft. Depth Weight 3.25 lbs. ft.  
 2 in. to 35 ft. Depth Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
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<u>Gravelly sand</u>	<u>12</u>	<u>12</u>
<u>Coarse sand</u>	<u>29</u>	<u>41</u>

**8 SCREEN:**  
 Type: STRAINER Dia.: 1 1/4  
 Slot/Gauge 10 Length 7  
 Set between 33 ft. and 41 ft.  
 Fittings: 1-1 1/4 coupling

**9 STATIC WATER LEVEL**  
22 ft. below land surface

**10 PUMPING LEVEL** below land surface  
35 ft. after 2 hrs. pumping 10 g.p.m.  
35 ft. after 2 hrs. pumping 10 g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
 Iron (Fe) NOT TESTED Chlorides CL  
 Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source** of possible contamination  
75 feet NW Direction SEPTIC Type  
 Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
 Manufacturer's Name Year Induction  
 Model Number 755 HP 1/4 Volts 110  
 Length of Drop Pipe 21 ft. capacity 12 G.P.M.  
 Type:  Submersible  Jet  Reciprocating

**RECEIVED**  
 Mich. Dept. of Public Health  
**SEP 24 1985**  
 Bureau of Environmental and  
 Occupational Health - GWQS

**16 Remarks.** elevation, source of data, etc.  
large rock 12' - 15'  
...

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Year Induction  
 REGISTERED BUSINESS NAME \_\_\_\_\_ REGISTRATION NO. \_\_\_\_\_  
 Address ...  
 Signed ... Date 10-15-73  
 AUTHORIZED REPRESENTATIVE

**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

APR 5 1969

1 LOCATION OF WELL		<i>NW SE SE</i>		3 OWNER OF WELL: <i>Aubrey L Washfield</i>	
County <i>Allegan</i>	Twp. <i>Plain</i>	Fraction <i>SE SE NW</i>	Section No. <i>20</i>	Town <i>1 N.W.</i>	Range <i>11 E.W.</i>
Distance And Direction from Road Intersections <i>1/2 mile N.E. of 8th on Miller Rd</i> <i>876 Miller Rd #2</i> Street address & City of Well Location <i>Plainville, Mich</i>			OWNER No. <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> Address <i>876 Miller Rd #2</i> <i>Plainville, Mich</i>		
2 FORMATION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Date of Completion <i>28 ft. April 11-69</i>	
<i>Sand</i>		<i>4'</i>	<i>4'</i>	5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored	
<i>Brown clay &amp; sand</i>		<i>11'</i>	<i>15'</i>	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well	
<i>Coarse sand &amp; gravel</i>		<i>13'</i>	<i>28'</i>	7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. <i>2 in.</i> to <i>25 ft.</i> Depth surface <i>1</i> ft. <i>2 in.</i> to <i>25 ft.</i> Depth Weight <i>3.75</i> lbs/ft. Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				8 SCREEN: <i>Clayton</i> Type: <i>SS mesh</i> Dia.: <i>1 1/4"</i> <del>Star</del> Gauze <i>60</i> Length <i>36"</i> Set between <i>25 ft.</i> and <i>28 ft.</i> Fittings: <i>1 1/4" coupling</i>	
				9 STATIC WATER LEVEL <i>10</i> ft. below land surface	
				10 PUMPING LEVEL below land surface <i>20</i> ft. after <i>1</i> hrs. pumping <i>10</i> g.p.m. <i>20</i> ft. after <i>1</i> hrs. pumping <i>10</i> g.p.m.	
				11 WATER QUALITY in Parts Per Million: Iron (Fe) <i>NOT KNOWN</i> Chlorides (Cl) Hardness	
				12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12' Above Grade	
				13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> Depth: From <input type="checkbox"/> ft. to <input type="checkbox"/> ft.	
				14 SANITARY: Nearest Source of possible contamination <i>75 feet W</i> Direction <i>Septic</i> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				15 PUMP: Manufacturer's Name <i>NOT KNOWN</i> Model Number <i>HP</i> Length of Drop Pipe <i>15</i> ft. capacity <input type="checkbox"/> G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet	
16 Remarks, elevation, source of data, etc.  ADDED INFO. BY DRILLER <i>WLB</i>  CORRECTED BY <i>[Signature]</i>  REVISION BY			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>Baker Well Drilling 0488</i> REGISTERED BUSINESS NAME REGISTRATION NO. Address <i>300 Shewood St Stego, Mich</i> Signed <i>Rip Baker</i> Date <i>April 12-69</i> AUTHORIZED REPRESENTATIVE		

MAY 21 1973

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

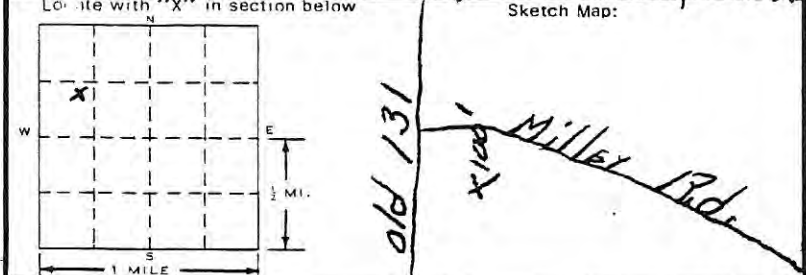
*NEWSEW*

**1 LOCATION OF WELL**

County <b>Allegan</b>	Township Name <b>GUNPLAIN</b>	Fraction <del>N.1/2</del>	Section Number <b>20</b>	Town Number <b>1 N/W.</b>	Range Number <b>11 W.</b>
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Distance And Direction from Road Intersections  
**2 1/2 MILE EAST OF old 131 ON MILLEY RD**

Street address & City of Well Location  
**964 EAST MILLEY RD PLAINWELL, MICH**



**3 OWNER OF WELL:** **RALPH H. HOOVEY**  
Address: **964 MILLEY RD. PLAINWELL, MICH**

**4 WELL DEPTH:** (completed) Date of Completion  
**28 ft. MAY 28-73**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored  \_\_\_\_\_

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well  \_\_\_\_\_

**7 CASING:** Threaded  Welded  Height: Above/Surface **1** ft.  
Diam. \_\_\_\_\_ Drive Shoe? Yes  No

2	FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
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	<b>SAND &amp; GRAVEL</b>	<b>28'</b>	<b>28'</b>

**8 SCREEN:** Type: **STAINER** Dia.: **1 1/4"**  
Slot/Gauze: **10** Length: **4'**  
Set between: **25** ft. and **28** ft.  
Fittings: **1- 1 1/4" coupling**

**9 STATIC WATER LEVEL**  
**13** ft. below land surface

**10 PUMPING LEVEL** below land surface  
**20** ft. after **1** hrs. pumping **10** g.p.m.  
**20** ft. after **1** hrs. pumping **10** g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) **NOT KNOWN** Chloride (Cl) \_\_\_\_\_  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite  \_\_\_\_\_  
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source of possible contamination**  
**75** feet **NW** Direction **SEPTIC** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **TAIT**  
Model Number **75TA** HP **3/4** Volts **110**  
Length of Drop Pipe **21** ft. capacity \_\_\_\_\_ G.P.M.  
Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

ADDED INFO. BY DRILLER, ITEM NO. \_\_\_\_\_

CORRECTED BY *[Signature]*

ADDITION BY \_\_\_\_\_

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

*C. Standish Well Drilling 1153*  
REGISTERED BUSINESS NAME REGISTRATION NO.

Address: **3908 Jennings Rd. Mich**

Signed *Craig Standish* Date **Mar. 28, 1973**  
AUTHORIZED REPRESENTATIVE

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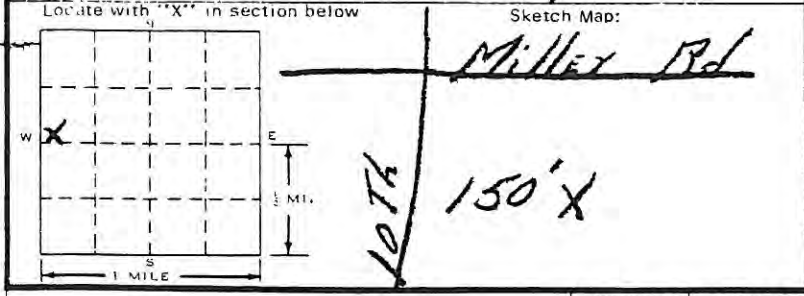
**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <b>Allegan</b>	Township Name <b>Gun Plain</b>	Fraction <b>NW 1/4 SW 1/4</b>	Section Number <b>20</b>	Town Number <b>1 N.B.</b>	Range Number <b>11 E/W.</b>

Distance And Direction from Road Intersections  
**1/2 MILE S. OF MILLET RD ON 10TH**  
**515-10TH PLAINWELL, MICH**

Street address & City of Well Location



**3 OWNER OF WELL:** **Waldo Tiller**  
Address **515-10TH PLAINWELL MICH**

**4 WELL DEPTH:** (completed) Date of Completion  
**48 ft. MAY-21-75**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above/Surface **1** ft.  
Diam. **3** in. to **4 1/4** ft. Depth Weight **758** lbs./ft.  
**3** in. to **4 1/4** ft. Depth Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<b>BROWN CLAY SAND &amp; GRAVEL</b>	<b>28'</b>	<b>28'</b>
<b>SAND &amp; GRAVEL</b>	<b>20'</b>	<b>48'</b>

**8 SCREEN:** Type: **55 STRAINER** Dia.: **2" i.d.**  
Slot: **1/2** Length **4'**  
Set between **44** ft. and **48** ft.  
Fittings: **RUBBER PACKER**

**9 STATIC WATER LEVEL**  
**14** ft. below land surface

**10 PUMPING LEVEL** below land surface  
**40** ft. after **1** hrs. pumping **30** g.p.m.  
**40** ft. after **1** hrs. pumping **30** g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) **NOT KNOWN** Chlorides (Cl)  
Hardness **NOT KNOWN** Other

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source** of possible contamination  
**100 feet S.W. Direction SEPTIC** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **TAIT**  
Model Number **155TA** HP **1 1/2** Volts **230**  
Length of Drop Pipe **25** ft. capacity **30** G.P.M.  
Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

*[Signature]*

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**Bakers Well Drilling 0482**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **300 SHERWOOD ST FORT BESSON**  
Signed **Byo Baker** Date **MAY-27-75**  
AUTHORIZED REPRESENTATIVE

WATER WELL AND PUMP RECORD

PERMIT NUMBER

PART 127 ACT 368, P.A. 1978

1 LOCATION OF WELL

County Allegan Township Name Plain Fraction NW 1/4 SW 1/4 Section Number 20 Town Number 1 N 8 Range Number 11 EW

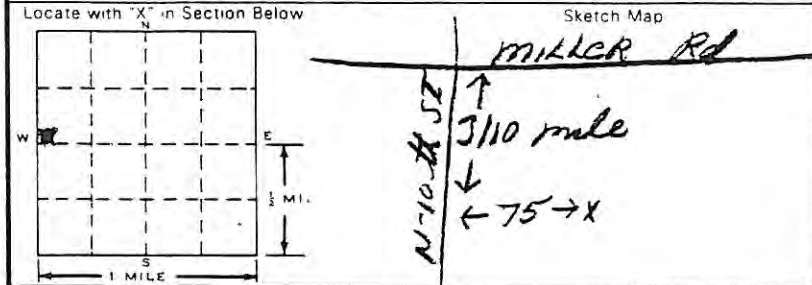
Distance And Direction From Road Intersection  
75 ft east of N-10th St, 3/10 mile south of Miller Rd.  
471 N-10th St Plainwell

Street Address & City of Well Location

3 OWNER OF WELL

Address Allen Turner  
471 N-10th St  
Plainwell Mich

Address Same As Well Location?  Yes  No



4 WELL DEPTH (completed) 31 ft Date of Completion Oct 18, 1983

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted

6 USE  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

7 CASING Diameter  Steel  Threaded  Height Above/Below Surface 1 ft  
 Plastic  Welded Weight 3.25 lbs/ft  
2 in to 28 ft depth  
2 in to 28 ft depth  
 Grouted Drill Hole Diameter \_\_\_\_\_ ft depth  
 Drive Shoe  Yes  No

2 FORMATION DESCRIPTION

THICKNESS OF STRATUM DEPTH TO BOTTOM OF STRATUM

sand + gravel 31 31

8 SCREEN  Not Installed

Type Strainer Diameter 1 1/4  
 Slot/Groove 10 Length 42"  
 Set between 28 " and 31 "  
 FITTINGS  K-Packer  Lead Packer  Bremer Check  
 Blank above screen \_\_\_\_\_ ft Other \_\_\_\_\_

9 STATIC WATER LEVEL 27 ft below land surface  Flow

10 PUMPING LEVEL below land surface  
23 ft after 2 hrs pumping at 10 GPM  
23 ft after 2 hrs pumping at 10 GPM

11 WELL HEAD COMPLETION  Pitless adapter  12" above grade  
 Basement offset  Approved pit

12 WELL GROUTED?  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft  
 Neat cement  Bentonite  Other \_\_\_\_\_  
 No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

13 Nearest source of possible contamination  
 Type Septic Distance 80 ft Direction east  
 Well disinfected upon completion?  Yes  No

14 PUMP  Not Installed  Pump Installation Only  
 Manufacturer's name \_\_\_\_\_  
 Model number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
 Length of Drop Pipe \_\_\_\_\_ ft Capacity \_\_\_\_\_ GPM  
 TYPE  Submersible  Jet  
 PRESSURE TANK  
 Manufacturer's name \_\_\_\_\_  
 Model number \_\_\_\_\_ Capacity \_\_\_\_\_ Gallons

15 Remarks: elevation source of data etc  
 ADDED INFO BY DRILLER, ITEM NO.  
 \*CORRECTED BY  
 \*\*ADDITION BY  
 ELEVATION  
 DEPTH TO ROCK

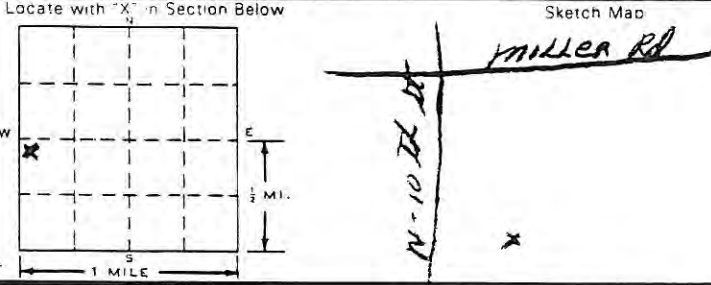
16 WATER WELL CONTRACTOR'S CERTIFICATION  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief  
Rick Miller Well Driller 1203  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address 425 E. Hammond St Steegs  
 Signed Rick Miller Date Oct 19, 1983  
 AUTHORIZED REPRESENTATIVE



**WATER WELL AND PUMP RECORD**

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		PART 127 ACT 368, P.A. 1978		PERMIT NUMBER	
County <i>Alcona</i>	Township Name <i>Gun Plain</i>	Fraction <i>SW<sub>4</sub> NW<sub>4</sub> NW<sub>4</sub></i>	Section Number <i>20</i>	Town Number <i>1 N/8</i>	Range Number <i>11 EW</i>
Distance And Direction From Road Intersection <i>100 ft east of N-10th St. 4 1/10 mile south of Miller Rd.</i>			3 OWNER OF WELL <i>Clare Fleming</i> Address <i>455 N 10th St</i> <i>Plainwell Mich</i> Address Same As Well Location? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Street Address & City of Well Location <i>455 N-10th St, Plainwell</i>			4 WELL DEPTH (completed) <i>30</i> ft Date of Completion <i>Oct 20, 1983</i>		
Locate with "X" in Section Below 			5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input checked="" type="checkbox"/> Jetted <input type="checkbox"/>		
2 FORMATION DESCRIPTION			6 USE <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
			7 CASING Diameter <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded <i>2</i> in to <i>33</i> ft depth Height Above/Below Surface <i>1</i> ft <i>2</i> in to <i>33</i> ft depth Weight <i>3.25</i> lbs/ft Grouted Drill Hole Diameter _____ ft to _____ ft depth Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<i>Sand + gravel</i>			8 SCREEN <input type="checkbox"/> Not installed Type <i>Strainer</i> Diameter <i>1 1/4"</i> Slot/Gauge <i>10</i> Length <i>42"</i> Set between <i>33</i> ft and <i>36</i> ft FITTINGS <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input checked="" type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft Other _____		
			9 STATIC WATER LEVEL <i>26</i> ft below land surface <input type="checkbox"/> Flow		
			10 PUMPING LEVEL below land surface <i>30</i> ft after <i>2</i> hrs pumping at <i>10</i> GPM <i>30</i> ft after <i>2</i> hrs pumping at <i>10</i> GPM		
			11 WELL HEAD COMPLETION <input type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
			12 WELL GROUTED? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____		
			13 Nearest source of possible contamination Type <i>Septic</i> Distance <i>75</i> ft Direction <i>north</i> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			14 PUMP <input checked="" type="checkbox"/> Not installed <input type="checkbox"/> Pump Installation Only Manufacturer's name _____ Model number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft capacity _____ GPM TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet _____ PRESSURE TANK Manufacturer's name _____ Model number _____ Capacity _____ Gallons		
			15 Remarks, elevation, source of data, etc. <b>ADDED INFO BY DRILLER, LHM NO.</b> CORRECTED BY _____ MODIFICATION BY _____ ELEVATION _____ DEPTH TO ROCK _____		
			16 WATER WELL CONTRACTOR'S CERTIFICATION This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>Rick Miller Well Drilling 1203</i> REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address <i>425 E Hammond St Otsego</i> Signed <i>Rick Miller</i> Date <i>Oct 20, 1983</i> AUTHORIZED REPRESENTATIVE		

GEOLOGICAL SURVEY NO

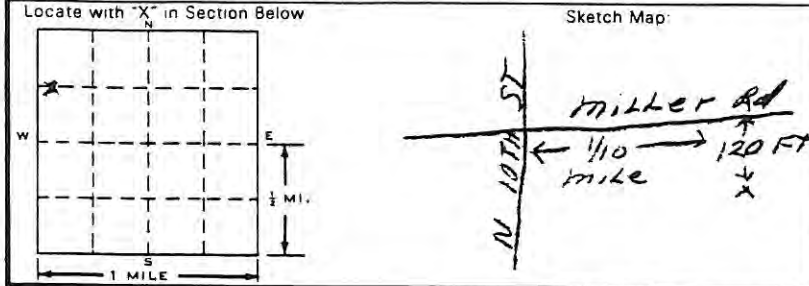
**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

**1 LOCATION OF WELL**  
 County: Alcona Township Name: Qua Plain Fraction: NW 1/4 SW 1/4 NW 1/4 Section Number: 20 Town Number: 1 N18 Range Number: 11 E/W

Distance And Direction From Road Intersection: 120 ft south of Miller Rd, 1/10 mile west of N 10th St  
 Street Address & City of Well Location: 120 ft south of Miller Rd

**3 OWNER OF WELL:**  
 Name: Bob Haven  
 Address: 126 Miller Rd  
Plamwell Mich  
 Address Same As Well Location?  Yes  No



**4 WELL DEPTH: (completed)** 42 ft. Date of Completion: Dec 19, 1987

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted

**6 USE:**  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

**7 CASING:** Diameter  Steel  Threaded  Plastic  Welded  
2 in. to 2 ft. depth  
2 in. to 2 ft. depth  
 Grouted Drill Hole Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Drive Shoe  Yes  No

**2 FORMATION DESCRIPTION**

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>course sand &amp; gravel</u>	<u>42</u>	<u>42</u>

**8 SCREEN:**  Not installed  
 Type: Strainer Diameter: 1 1/4  
 Slot/Gauze: 10 Length: 42  
 Set between 39 ft and 42 ft  
 FITTINGS:  K-Packer  Lead Packer  Bremer Check  
 Blank above screen \_\_\_\_\_ ft Other \_\_\_\_\_

**9 STATIC WATER LEVEL:** 17 ft. below land surface  Flow

**10 PUMPING LEVEL:** below land surface  
30 ft. after 2 hrs pumping at 12 G.P.M.  
30 ft. after 2 hrs pumping at 12 G.P.M.

**11 WELL HEAD COMPLETION:**  Pitless adapter  12" above grade  
 Basement offset  Approved pit

**12 WELL GROUTED?**  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft  
 Neat cement  Bentonite  Other \_\_\_\_\_  
 No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

**13 Nearest source of possible contamination**  
 Type: Septic Distance: 75 ft. Direction: North  
 Well disinfected upon completion?  Yes  No

**14 PUMP:**  Not Installed  Pump Installation Only  
 Manufacturer's name: Fair  
 Model number: 10E2 HP: 1 Volts: 25  
 Length of Drop Pipe: 30 ft. capacity: 10 G.P.M.  
 TYPE:  Submersible  Jet  
**PRESSURE TANK:**  
 Manufacturer's name: well & tool  
 Model number: wx 203 Capacity: 9.6 Gallons

**15 Remarks, elevation, source of data, etc**

**16 WATER WELL CONTRACTOR'S CERTIFICATION:**  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
Rich Miller Well Drilling 1203  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address: 372 26th St Oshtemo  
 Signed: Rich Miller Date: Dec 19, 1987  
 AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY NO

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		
County <i>Alcona</i>	Township Name <i>Gun Plain</i>	Fraction <i>N 1/4 S 1/4 S 1/4</i>
Distance And Direction From Road Intersection <i>5 1/10 mile east of N-10 st 50 ft south of Miller Rd</i>		Section Number <i>20</i>
Street Address & City of Well Location <i>5 1/10 Miller Rd Plainwell Mich</i>		Town Number <i>1 N 1/8</i>
Locate with "X" in Section Below		Range Number <i>11 E 1/2</i>
Sketch Map		
<b>2 FORMATION DESCRIPTION</b>		<b>THICKNESS OF STRATUM</b>
<i>Coarse sand &amp; gravel</i>		<i>48</i>
		<b>DEPTH TO BOTTOM OF STRATUM</b>
		<i>48</i>
<b>3 OWNER OF WELL.</b>		
Paul Vandenberg Address <i>979 9th St Plainwell Mich</i>		
Address Same As Well Location? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>4 WELL DEPTH: (completed)</b> <i>48 ft.</i> Date of Completion <i>Jan 11, 1988</i>		
<input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>		
<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
<b>7 CASING:</b> Diameter <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded Height: Above/Below Surface <i>1</i> ft <input type="checkbox"/> Plastic <input type="checkbox"/> Welded Weight <i>11</i> lbs/ft <i>4</i> in to <i>7 1/2</i> ft depth <i>4</i> in to <i>42</i> ft. depth Grouted Drill Hole Diameter Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>8 SCREEN</b> <input type="checkbox"/> Not Installed <input checked="" type="checkbox"/> <i>3 1/4</i> Type <i>Strainer</i> Diameter <i>3 1/4</i> Slot/Groove <i>10</i> Length <i>6 ft</i> Set between <i>42</i> ft and <i>48</i> ft FITTINGS: <input checked="" type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> blank above screen <i>1</i> ft Other		
<b>9 STATIC WATER LEVEL</b> <i>15</i> ft below land surface <input type="checkbox"/> Flow		
<b>10 PUMPING LEVEL</b> below land surface <i>40</i> ft after <i>2</i> hrs pumping at <i>35</i> GPM <i>40</i> ft. after <i>2</i> hrs pumping at <i>35</i> GPM		
<b>11 WELL HEAD COMPLETION:</b> <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
<b>12 WELL GROUTED?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other		
<b>13 Nearest source of possible contamination</b> Type <i>Septic</i> Distance <i>30</i> ft Direction <i>West</i> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>14 PUMP</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name <i>Standard</i> Model number <i>100118P101</i> HP <i>1</i> Volts <i>230</i> Length of Drop Pipe <i>31</i> ft capacity <i>1</i> GPM TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK Manufacturer's name <i>Well &amp; Tool</i> Model number <i>WX 2-51</i> Capacity <i>19</i> Gallons		
<b>15 Remarks, elevation, source of data, etc</b>		<b>16 WATER WELL CONTRACTOR'S CERTIFICATION:</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>Paul Miller Well Drilling 1203</i> REGISTERED BUSINESS NAME REGISTRATION NO Address <i>397 26 St Oshtemo Mich</i> Signed <i>Paul Miller</i> Date <i>Jan 12, 1988</i> AUTHORIZED REPRESENTATIVE

D67d 2/84

**Authority:** Act 368 PA 1978  
**Completion:** Required  
**Penalty:** Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY NO

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		
County <i>Allegan</i>	Township Name <i>Gun Plain</i>	Fraction <i>SW 1/4 SW 1/4 NW 1/4</i>
Distance And Direction From Road Intersection <i>1/2 mile South on 10th St From Miller Rd.</i>		Section Number <i>20</i>
Street Address & City of Well Location		Town Number <i>1 N/A</i>
Locate with "X" in Section Below		Range Number <i>11 SW</i>
	Sketch Map <i>10th Miller</i>	
<b>2 FORMATION DESCRIPTION</b>		
FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<i>Gravel - Rocks</i>	<i>8'</i>	<i>8'</i>
<i>Sand &amp; Gravel</i>	<i>7'</i>	<i>15'</i>
<i>Coarse Sand &amp; Gravel</i>	<i>7'</i>	<i>22'</i>
<i>Medium Water-Sand</i>	<i>23'</i>	<i>45'</i>
<b>3 OWNER OF WELL</b>		
Address <i>Robert Wood 525 10th St Plainwell, Mich.</i>		
Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>4 WELL DEPTH (completed)</b> <i>45</i> ft Date of Completion <i>7-9-88</i>		
<b>5</b> <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>		
<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
<b>7 CASING:</b> <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Plastic <input type="checkbox"/> Diameter <i>4</i> in. to <i>40</i> ft depth <input type="checkbox"/> Grooved Drill Hole Diameter <i>4</i> in. to <i>40</i> ft depth <input type="checkbox"/> <i>6</i> in. to <i>25</i> ft depth		
Height Above/Below Surface <i>1</i> ft Weight <i>10.79</i> lbs/ft		
Drive Shoe <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>8 SCREEN</b> <input type="checkbox"/> Not Installed Type <i>Strainer</i> Diameter <i>3"</i> Slot/Gauge <i>10</i> Length <i>5'</i> Set between <i>40</i> ft and <i>45</i> ft FITTINGS <input checked="" type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen <i>1</i> ft Other		
<b>9 STATIC WATER LEVEL.</b> <i>15</i> ft below land surface <input type="checkbox"/> Flow		
<b>10 PUMPING LEVEL:</b> below land surface <i>40</i> ft after <i>1</i> hrs pumping at <i>60</i> GPM _____ ft after _____ hrs pumping at _____ GPM		
<b>11 WELL HEAD COMPLETION:</b> <input checked="" type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved bit		
<b>12 WELL GROUTED?</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From <i>0</i> to <i>25</i> ft <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other No. of bags of cement <i>2</i> Additives		
<b>13 Nearest source of possible contamination</b> Type <i>Septic</i> Distance <i>66</i> ft Direction <i>E</i> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>14 PUMP</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name <i>Flint &amp; Walling</i> Model number <i>4F10N05305 12</i> Volts <i>230</i> Length of Drop Pipe <i>21</i> ft capacity <i>10</i> GPM TYPE <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK Manufacturer's name <i>well-x-Trol</i> Model number <i>202</i> Capacity <i>5.6</i> Gallons		
<b>15 Remarks</b> elevation, source of data etc. <i>Distance variance was granted by local Health Dept.</i>		
<b>16 WATER WELL CONTRACTOR'S CERTIFICATION</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief <i>Lovett Well Drilling 1984</i> REGISTERED BUSINESS NAME <i>Lovett Well Drilling</i> REGISTRATION NO. _____ Address <i>1921 108th Ave Otsego</i> Signed <i>Kal C. Lovett</i> Date <i>9-10-88</i> AUTHORIZED REPRESENTATIVE		

D67d 2/84

Authority: Act 368 PA 1978  
Completion: Required  
Penalty: Conviction of a violation of any provision is a misdemeanor.

GEOLOGICAL SURVEY NO.

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>					
County <i>Alcona</i>	Township Name <i>Good Hope</i>	Fraction <i>1/4 Sec 10</i>	Section Number <i>10</i>	Town Number <i>M/S</i>	Range Number <i>11 NW</i>

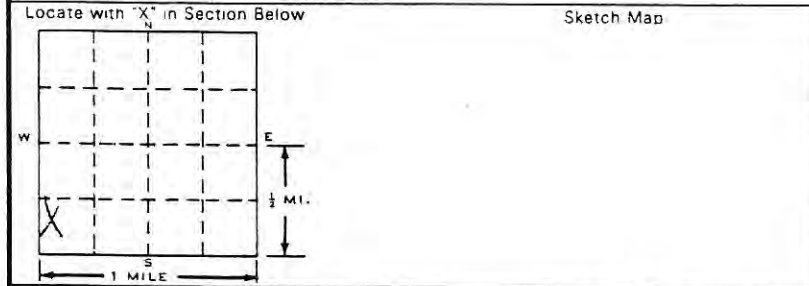
Distance And Direction From Road Intersection \_\_\_\_\_

Street Address & City of Well Location \_\_\_\_\_

**3 OWNER OF WELL**  
*NATHAN JUNCH*

Address *1011 N 10TH*

Address Same As Well Location?  Yes  No



**4 WELL DEPTH: (completed)** \_\_\_\_\_ ft. Date of Completion *10-4-88*

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted  \_\_\_\_\_

**6 USE**  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public  \_\_\_\_\_

**7 CASING:** Diameter  Steel  Threaded  Plastic  Welded

Height Above/Below Surface *1* ft. Weight *11* lbs./ft.

Grouted Drill Hole Diameter \_\_\_\_\_ in to \_\_\_\_\_ ft depth

Drive Shoe  Yes  No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<i>0-12 SAND + STONES</i>	<i>12</i>	
<i>12-32 WATER SAND</i>	<i>20</i>	

**8 SCREEN**  Not installed

Type *Plastic* Diameter *4"*

Slot/Gauze *12* Length *5'*

Set between *27* ft and *32* ft

FITTINGS  K-Packer  Lead Packer  Bremer Check  
 blank above screen \_\_\_\_\_ ft Other \_\_\_\_\_

**9 STATIC WATER LEVEL** *12* ft below land surface  Flow

**10 PUMPING LEVEL** below land surface

\_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at *50* G.P.M.

\_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at \_\_\_\_\_ G.P.M.

**11 WELL HEAD COMPLETION:**  Pitless adapter  12" above grade  
 Basement offset  Approved pit

**12 WELL GROUTED?**  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft

Neat cement  Bentonite  Other \_\_\_\_\_

No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

**13 Nearest source of possible contamination**

Type \_\_\_\_\_ Distance \_\_\_\_\_ ft Direction \_\_\_\_\_

Well disinfected upon completion?  Yes  No

**14 PUMP**  Not Installed  Pump Installation Only

Manufacturer's name *BURKS*

Model number *SNRP* HP *1/2* Volts *115*

Length of Drop Pipe *16* ft capacity \_\_\_\_\_ G.P.M.

TYPE:  Submersible  Jet

**PRESSURE TANK**

Manufacturer's name *X Tru 1*

Model number *202* Capacity *5* Gallons

15 Remarks, elevation, source of data, etc.

USE A 2ND SHEET IF NEEDED

**16 WATER WELL CONTRACTOR'S CERTIFICATION.**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief

*WALT ADAMS* *436*

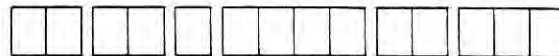
REGISTERED BUSINESS NAME REGISTRATION NO.

Address *WAL-*

Signed *Walt Adams* Date *8-25-88*

AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.



**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>																							
County <b>Alcona</b>	Township Name <b>PLAIN</b>	Fraction <b>SW 1/4</b> Section Number <b>28</b> Town Number <b>10 N.S.</b> Range Number <b>11 E.W.</b>																					
Distance And Direction from Road Intersections <b>3/4 MI NORTH ON 8<sup>th</sup> FROM M-89 7/8 MI EAST 200 FT</b>		3 OWNER OF WELL: <b>PLAIN TOWNSHIP</b> Address <b>HALL STREET PLAINWELL</b>																					
Street address & City of Well Location Locate with "X" in section below																							
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <p style="font-size: small;">Sketch Map:</p> </div> <div style="margin-left: 10px;"> <p>6<sup>th</sup></p> <p>8<sup>th</sup></p> <p>-M-89</p> </div> </div>		4 WELL DEPTH: (completed) Date of Completion <b>60 ft. 10-15-86</b>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 40%;">2 FORMATION</th> <th style="width: 15%;">THICKNESS OF STRATUM</th> <th style="width: 15%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> <tr> <td><b>GRAVEL</b></td> <td><b>10</b></td> <td><b>10</b></td> </tr> <tr> <td><b>COARSE ROCK &amp; GRAVEL</b></td> <td><b>22</b></td> <td><b>32</b></td> </tr> <tr> <td><b>CLAY GRAVEL</b></td> <td><b>3</b></td> <td><b>35</b></td> </tr> <tr> <td><b>CLAY SAND</b></td> <td><b>9</b></td> <td><b>44</b></td> </tr> <tr> <td><b>WATER BEARING SAND</b></td> <td></td> <td></td> </tr> <tr> <td><b>GRAVEL</b></td> <td><b>16</b></td> <td><b>60</b></td> </tr> </table>		2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<b>GRAVEL</b>	<b>10</b>	<b>10</b>	<b>COARSE ROCK &amp; GRAVEL</b>	<b>22</b>	<b>32</b>	<b>CLAY GRAVEL</b>	<b>3</b>	<b>35</b>	<b>CLAY SAND</b>	<b>9</b>	<b>44</b>	<b>WATER BEARING SAND</b>			<b>GRAVEL</b>	<b>16</b>	<b>60</b>	5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>
		2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																			
		<b>GRAVEL</b>	<b>10</b>	<b>10</b>																			
		<b>COARSE ROCK &amp; GRAVEL</b>	<b>22</b>	<b>32</b>																			
		<b>CLAY GRAVEL</b>	<b>3</b>	<b>35</b>																			
		<b>CLAY SAND</b>	<b>9</b>	<b>44</b>																			
<b>WATER BEARING SAND</b>																							
<b>GRAVEL</b>	<b>16</b>	<b>60</b>																					
6 USE: <input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>		7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height Above/Below Surface <b>1</b> ft. Weight <b>11</b> lbs./ft. Drive Shoe? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					
8 SCREEN: Type: <b>STAINLESS</b> Dia.: <b>3"</b> Slot/Gauze <b>10</b> Length <b>5'</b> Set between <b>55</b> ft. and <b>60</b> ft. Fittings: <b>K-PACKER</b>		9 STATIC WATER LEVEL <b>30</b> ft. below land surface																					
10 PUMPING LEVEL below land surface <b>30</b> ft. after <b>2</b> hrs. pumping <b>45</b> g.p.m. <b>SAME</b> ft. after ___ hrs. pumping ___ g.p.m.		11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____																					
12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade		13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From _____ ft. to _____ ft.																					
14 Nearest Source of possible contamination _____ feet _____ Direction <b>NONE</b> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <b>STANDARD</b> Model Number <b>182 1</b> HP _____ Volts <b>220</b> Length of Drop Pipe <b>42</b> ft. capacity <b>50</b> G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating																					
16 Remarks, elevation, source of data, etc. <b>RECORDED</b> <b>NOV 26 1986</b> _____ Occupational: _____		17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>Alazel Well Drillers 1159</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>10990 N. 1<sup>st</sup> ST. OTSMO</b> Signed <b>Systeme</b> Date <b>10-15-86</b> AUTHORIZED REPRESENTATIVE																					



## WATER WELL RECORD

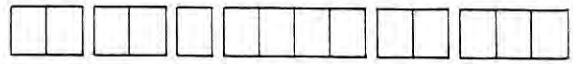
ACT 294 PA 1965

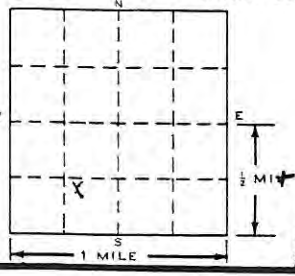
MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

1 LOCATION OF WELL			3 OWNER OF WELL:																										
County <i>CLINTON</i>	Township Name <i>GUY PLAIN</i>	Fraction <i>SW 1/4 SW 1/4 NW 1/4</i>	Section Number <i>28</i>	Town Number <i>1 N 1/2</i>	Range Number <i>11 E/W.</i>																								
Distance And Direction from Road Intersections <i>2 1/2 MILE NORTH OF M 89 ON 8TH ST. ON EAST SIDE</i>			Address <i>347 8TH ST PLAINWELL MICH</i>																										
Street address & City of Well Location <i>500 N. E</i>			4 WELL DEPTH: (completed) Date of Completion <i>36 ft. 10/11/35</i>																										
Locate with "X" in section below 			5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored																										
2 FORMATION <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">FORMATION</th> <th style="width: 10%;">THICKNESS OF STRATUM</th> <th style="width: 20%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td><i>Clay &amp; GRAVEL REGION</i></td> <td><i>7</i></td> <td><i>7</i></td> </tr> <tr> <td><i>SAND &amp; GRAVEL</i></td> <td><i>10</i></td> <td><i>18</i></td> </tr> <tr> <td><i>CLAY BROWN</i></td> <td><i>2</i></td> <td><i>20</i></td> </tr> <tr> <td><i>SAND</i></td> <td><i>5</i></td> <td><i>25</i></td> </tr> <tr> <td><i>GRAVEL</i></td> <td><i>3</i></td> <td><i>28</i></td> </tr> <tr> <td><i>SAND &amp; GRAVEL BROWN</i></td> <td><i>2</i></td> <td><i>30</i></td> </tr> <tr> <td><i>SAND WATER BEARING</i></td> <td><i>6</i></td> <td><i>36</i></td> </tr> </tbody> </table>			FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<i>Clay &amp; GRAVEL REGION</i>	<i>7</i>	<i>7</i>	<i>SAND &amp; GRAVEL</i>	<i>10</i>	<i>18</i>	<i>CLAY BROWN</i>	<i>2</i>	<i>20</i>	<i>SAND</i>	<i>5</i>	<i>25</i>	<i>GRAVEL</i>	<i>3</i>	<i>28</i>	<i>SAND &amp; GRAVEL BROWN</i>	<i>2</i>	<i>30</i>	<i>SAND WATER BEARING</i>	<i>6</i>	<i>36</i>	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well		
			FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM																								
			<i>Clay &amp; GRAVEL REGION</i>	<i>7</i>	<i>7</i>																								
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<i>SAND WATER BEARING</i>	<i>6</i>	<i>36</i>																											
9 STATIC WATER LEVEL <i>35</i> ft. below land surface 10 PUMPING LEVEL below land surface <i>25</i> ft. after <i>1</i> hrs. pumping <i>1</i> g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.			7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface <i>1</i> ft. Weight: <i>25</i> lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																										
			8 SCREEN: Type: <i>JETTED</i> Dia: <i>1 1/2</i> Slot/Gauze <i>10</i> Length <i>2 FT</i> Set between <i>27</i> ft. and <i>36</i> ft. Fittings: <i>3" X 1/2" - 28 LK</i>																										
			11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____																										
			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade																										
16 Remarks, elevation, source of data, etc.  <i>Well site OK by LOCAL HEALTH Dept.</i>			13 Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other: <i>MURPHY</i> Depth: From <i>0</i> ft. to <i>?</i> ft.																										
			14 Nearest Source of possible contamination <i>0</i> feet <i>E</i> Direction <i>T-PANK</i> Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																										
			15 PUMP: <input checked="" type="checkbox"/> Not installed Manufacturer's Name _____ Model Number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating																										
17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>HARVEY H. VERTNER</i> 081299 REGISTERED BUSINESS NAME REGISTRATION NO.																													
Address: <i>1013 1/2 MILE PLAINWELL MICH</i> Signed: <i>[Signature]</i> Date: <i>10/16/35</i> AUTHORIZED REPRESENTATIVE																													

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH



1 LOCATION OF WELL															
County <u>Alcona</u>		Township Name <u>GAIN PLAIN</u>		Fraction <u>N 1/4 S 1/4</u>		Section Number <u>24</u>		Town Number <u>1 N 1/4</u>		Range Number <u>11 E/W</u>					
Distance And Direction from Road Intersections <u>3/4 MILE WEST OF NORTHVIEW DR. ON JAMES ST. ON WEST SIDE OF ROAD</u>						3 OWNER OF WELL: <u>HELENN WRIGHT</u> Address <u>176 JAMES ST. GAINWELL MICH.</u>									
Street address & City of Well Location <u>Gainwell Mich.</u>						4 WELL DEPTH: (completed) Date of Completion <u>94 ft. 9/18</u>									
Locate with "X" in section below 						Sketch Map: <u>Gainwell Mich.</u>									
2 FORMATION						THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM							
<u>Sand</u>								<u>4 in. to 89 ft. Depth</u>		7 CASING: Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Height: Above/Below Surface <u>1</u> ft. Weight <u>11</u> lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
<u>Sand + Gravel</u>						<u>2'</u>		<u>94 ft. Depth</u>		8 SCREEN: Type: <u>Johnson</u> Dia.: <u>2"</u> Slot/Gauge <u>7</u> Length <u>5 FT.</u> Set between <u>89 ft.</u> and <u>94 ft.</u> Fittings: <u>3x1 1/2" elbows, 1" CK</u>					
<u>Clay</u>						<u>3'</u>		<u>10</u>		9 STATIC WATER LEVEL <u>7</u> ft. below land surface					
<u>Sand Fine Gr. Clay</u>						<u>2'</u>		<u>14</u>		10 PUMPING LEVEL below land surface <u>75</u> ft. after <u>1</u> hrs. pumping <u>50</u> g.p.m. <u>    </u> ft. after <u>    </u> hrs. pumping <u>    </u> g.p.m.					
<u>Joint Water Bearing</u>						<u>1'</u>		<u>74</u>		11 WATER QUALITY in Parts Per Million: Iron (Fe) <u>    </u> Chlorides (Cl) <u>    </u> Hardness <u>    </u> Other <u>    </u>					
										12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade					
										13 Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> <u>    </u> Depth: From <u>0</u> ft. to <u>74</u> ft.					
										14 Nearest Source of possible contamination <u>75</u> feet <u>S</u> Direction <u>Gainwell Mich.</u> Type <u>    </u> Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
										15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <u>Garman</u> Model Number <u>909P</u> HP <u>1/2</u> Volts <u>220</u> Length of Drop Pipe <u>60</u> ft. capacity <u>10</u> G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating					
16 Remarks, elevation, source of data, etc.						17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>HARVEARD H2O SYSTEMS</u> <u>1899</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>301 3rd St. Gainwell Mich.</u> Signed <u>Harvard Harmon</u> Date <u>7/27/78</u> AUTHORIZED REPRESENTATIVE									



**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		
County <i>Hillsdale</i>	Township Name <i>Coun Plain</i>	Fraction <i>NE 1/4 NW 1/4 NE 1/4</i>
Section Number <i>29</i>		Town Number <i>1 N</i>
Range Number <i>11 E/W</i>		
Distance And Direction From Road Intersection <i>1/10 mile west on M-89 From 8th St</i>		
Street Address & City of Well Location <i>848 E. M-89 Plainwell, Mich. 49080</i>		
Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Locate with "X" in Section Below		Sketch Map:
<b>2 FORMATION DESCRIPTION</b>		
FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<i>Sand</i>	<i>9'</i>	<i>9'</i>
<i>Sand + Gravel</i>	<i>3'</i>	<i>12'</i>
<i>Brown Clay</i>	<i>14'</i>	<i>26'</i>
<i>Sand + Gravel</i>	<i>3'</i>	<i>29'</i>
<i>Blue Clay Rock + Gravel</i>	<i>13'</i>	<i>42'</i>
<i>Blue Clay + Rock <sup>very</sup> hard</i>	<i>26'</i>	<i>68'</i>
<i>Pea Gravel</i>	<i>10'</i>	<i>78'</i>
<b>3 OWNER OF WELL</b>		
Address <i>848 E. M-89 Plainwell, Mich. 49080</i>		
Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>4 WELL DEPTH</b> (completed)		Date of Completion
<i>78</i> ft.		<i>6-3-88</i>
<b>5</b> <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug		
<input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>		
<b>6 USE</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public		
<input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump		
<input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
<b>7 CASING</b> Diameter		Height: Above/Below
<input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded		Surface <i>1</i> ft
<input type="checkbox"/> Plastic <input type="checkbox"/> Welded		Weight <i>10.7</i> lbs./ft
<i>4</i> in. to <i>12</i> ft. depth		Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>4</i> in. to <i>72</i> ft. depth		
Grouted Drill Hole Diameter <i>6</i> in. to <i>72</i> ft. depth		
<i>6</i> in. to <i>78</i> ft. depth		
<i>6</i> in. to <i>78</i> ft. depth		
<b>8 SCREEN</b> <input type="checkbox"/> Not Installed		
Type <i>Strainer S.S.</i> Diameter <i>3</i> "		
Slot/Screen <i>10</i> Length <i>4</i> '		
Set between <i>78</i> ft and <i>74</i> ft		
FITTINGS: <input type="checkbox"/> K-Packer <input checked="" type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check		
<input type="checkbox"/> Blank above screen <i>2</i> ft Other _____		
<b>9 STATIC WATER LEVEL</b>		
<i>29</i> ft. below land surface <input type="checkbox"/> Flow		
<b>10 PUMPING LEVEL</b> below land surface		
<i>29</i> ft. after <i>1</i> hrs. pumping at <i>60</i> G.P.M.		
_____ ft. after _____ hrs. pumping at _____ G.P.M.		
<b>11 WELL HEAD COMPLETION</b> <input checked="" type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> 12" above grade		
<input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
<b>12 WELL GROUTED?</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From <i>0</i> to <i>72</i> ft		
<input checked="" type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____		
No. of bags of cement <i>3</i> Additives _____		
<b>13 Nearest source of possible contamination</b>		
Type <i>Septic</i> Distance <i>55</i> ft Direction <i>west</i>		
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>14 PUMP</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only		
Manufacturer's name <i>Flint &amp; Walling</i>		
Model number <i>4710N05305 1/2</i> Volts <i>230</i>		
Length of Drop Pipe <i>42</i> ft capacity <i>10</i> G.P.M.		
TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet		
PRESSURE TANK: Manufacturer's name _____		
Model number _____ Capacity _____ Gallons		
<b>15 Remarks, elevation, source of data, etc.</b>		
<i>Driller - Kell C. Lovell</i>		
<b>16. WATER WELL CONTRACTOR'S CERTIFICATION:</b>		
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
<i>Bater well Drilling</i> <i>0488</i>		
REGISTERED BUSINESS NAME <i>Bater well Drilling</i> REGISTRATION NO. <i>013690</i>		
Address <i>300 Sherwood St.</i>		
Signed <i>[Signature]</i> Date <i>6-3-88</i>		
AUTHORIZED REPRESENTATIVE		

USE A 2ND SHEET IF NEEDED

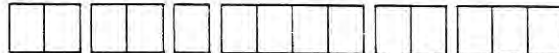
**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <b>Allegan</b>	Twp. <b>Gun Plains</b>	Fraction <b>Unknown 1/4</b>	Section No. <b>29</b>	Town <b>/</b>	Range <b>11</b>
Distance And Direction from Road Intersections <b>100ft. South of James St. 956 James St.</b>			OWNER No. <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>		
Street address & City of Well Location			3 OWNER OF WELL: <b>Forrest Wright</b> Address <b>956 James St. Plainwell</b>		
2	FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Date of Completion <b>90 ft. May 19, 1967</b>	
	<b>Sand-Yellow-Fine</b>	<b>6</b>	<b>6</b>	5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored	
				6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well	
				7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. <b>2"</b> in. to <b>75</b> ft. Depth <b>1 1/4</b> in. to <b>90</b> ft. Depth Height: Above/Below surface <b>12"</b> ft. Weight <b>3-75</b> lbs./ft. Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
				8 SCREEN: Type: <b>Flush</b> Dia.: <b>1 1/4</b> <b>60</b> Slot/Gauze Length <b>3 Ft</b> Set between <b>88</b> ft. and <b>90</b> ft. Fittings: <b>Check</b>	
				9 STATIC WATER LEVEL <b>18</b> ft. below land surface	
				10 PUMPING LEVEL below land surface <b>20</b> ft. after <b>1</b> hrs. pumping <b>750</b> g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.	
				11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____	
				12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade	
				13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> _____ Depth: From _____ ft. to _____ ft.	
				14 SANITARY: Nearest Source of possible contamination <b>75</b> feet <b>East</b> direction <b>Dry Well</b> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				15 PUMP: Manufacturer's Name _____ Model Number _____ HP _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> _____ <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating	
16 Remarks, elevation, source of data etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION:		
ADDED INFO. BY DRILLER, ITEM NO.			This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
*CORRECTED BY:			<b>Jacobs Well Drilling</b> <span style="float: right;"><b>0261</b></span>		
** SIGN BY:			REGISTERED BUSINESS NAME <span style="float: right;">REGISTRATION NO.</span>		
			Address <b>R # 1 Otsego</b>		
			Signed <i>Norman Jacobs</i> Date <b>May 21, 67</b>		
			AUTHORIZED REPRESENTATIVE		

GEOLOGICAL SURVEY SAMPLE No.



### WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

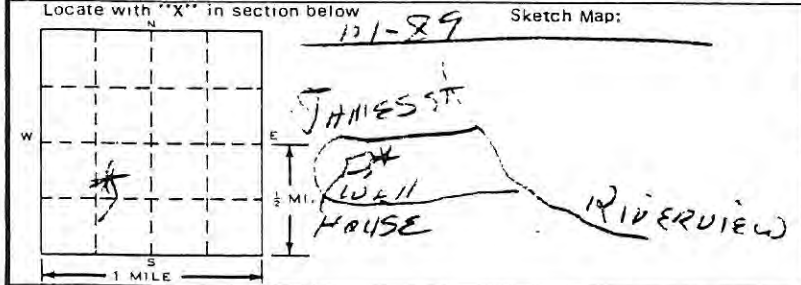
1 LOCATION OF WELL

County <b>HOLLAND</b>	Township Name <b>CUNIPSHAW</b>	Fraction <b>N<sub>2</sub>S<sub>4</sub>E<sub>2</sub>S<sub>4</sub>W<sub>4</sub></b>	Section Number <b>29</b>	Town Number <b>1 C.N.S.</b>	Range Number <b>11 E.C.</b>
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Distance And Direction from Road Intersections  
**1/4 mile west of RIVERVIEW**  
**ON JAMES ST south side**

Street address & City of Well Location  
**933 - JAMES ST**

3 OWNER OF WELL:  
**David and Burg**  
Address  
**932 JAMES ST  
RIVERVIEW MI.**



4 WELL DEPTH: (completed) Date of Completion  
**44 ft.**

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
-----------	----------------------	----------------------------

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<b>TOP SOFT GRAVEL</b>	<b>25</b>	<b>25</b>
<b>CHG. GRAVEL</b>	<b>3</b>	<b>28</b>
<b>LUSTER BEARING GRAVEL</b>	<b>14</b>	<b>44</b>
<b>SAND</b>		

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7 CASING: Threaded  Welded   
Diam. Height: Above/Below Surface **1** ft.  
**2** in. to **1/2** ft. Depth Weight **7** lbs./ft.  
**1 1/2** in. to **44** ft. Depth Drive Shoe? Yes  No

8 SCREEN:  
Type: **IRON** Dia.: **1 1/2"**  
Sew. Gauge **10** Length **11'**  
Set between **40** ft. and **40** ft.  
Fittings: **Coupling - Check**

9 STATIC WATER LEVEL  
**10** ft. below land surface

10 PUMPING LEVEL below land surface  
**10** ft. after **1** hrs. pumping **20** g.p.m.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ g.p.m.

11 WATER QUALITY in Parts Per Million:  
Iron (Fe) \_\_\_\_\_ Chlorides (Cl) \_\_\_\_\_  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  In Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite  
Depth: From **0** ft. to **40** ft.

14 Nearest Source of possible contamination  
**50** feet **N-W** Direction **SEPTIC TANK** Type  
Well disinfected upon completion  Yes  No

15 PUMP:  
 Not installed  
Manufacturer's Name **FLINT-WALLING**  
Model Number **1/2** HP Volts **115**  
Length of Drop Pipe **21** ft. capacity **50** G.P.M.  
Type:  Submersible  Jet  Reciprocating

16 Remarks, elevation, source of data etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**21/11/85** **1159**

REGISTERED BUSINESS NAME **10980 10th 1st CT 28000** REGISTRATION NO. \_\_\_\_\_  
Address

Signed **[Signature]** Date **10/22/85**  
AUTHORIZED REPRESENTATIVE

USE A 2ND SHEET IF NEEDED

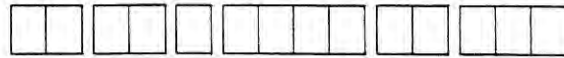
GEOLOGICAL SURVEY SAMPLE No. 202

MAY 08 1990

**WATER WELL RECORD**

ACT 294 PA-1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

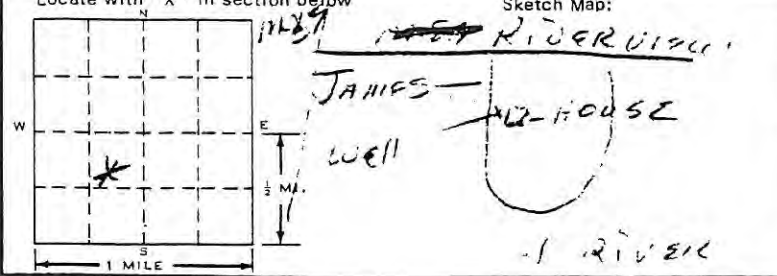


1 LOCATION OF WELL		County <b>ALLEGAN</b>		Township Name <b>GUN PLAIN</b>		Fraction <b>S 1/4 NE 1/4</b>		Section Number <b>29</b>		Town Number <b>1</b> N/S.		Range Number <b>11 E.</b>			
Distance And Direction from Road Intersections <b>1/10 M - S.E. OF 89 ON RIVER VIEW DR. &amp; THEN 3/4 MILE W - ON JAMES ST</b>				Address <b>945 JAMES ST PLAINWELL MI</b>				3 OWNER OF WELL: <b>William Keith</b>							
Street address & City of Well Location <b>945 JAMES ST PLAINWELL MI</b>				Sketch Map: 				4 WELL DEPTH: (completed) Date of Completion <b>51 ft. APR. 22 - 80</b>							
Locate with "X" in section below				5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>				6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>							
2 FORMATION				THICKNESS OF STRATUM		DEPTH TO BOTTOM OF STRATUM		7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam.		Height: Above/Below Surface <b>1</b> ft.					
				<b>SAND &amp; GRAVEL</b>		<b>30' 30'</b>		<b>44 in. to 45 ft. Depth</b>		<b>45 in. to 45 ft. Depth</b>		Weight: <b>1079</b> lbs./ft.			
				<b>BLUE CLAY &amp; SAND</b>		<b>14' 44'</b>						Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
				<b>SAND</b>		<b>7' 51'</b>						8 SCREEN: <b>5.5. STAINLESS</b> Dia.: <b>3"</b> Slot/Screen <b>7</b> Length <b>4'</b> Set between <b>45</b> ft. and <b>51</b> ft. <b>LEAD</b> Fittings: <b>12" x 3" NIP PACKET</b>			
								9 STATIC WATER LEVEL		<b>12</b> ft. below land surface					
								10 RISING LEVEL below land surface		<b>12</b> ft. after <b>1</b> hrs. pumping <b>35</b> g.p.m.					
										<b>12</b> ft. after <b>1</b> hrs. pumping <b>35</b> g.p.m.					
								11 WATER QUALITY in Parts Per Million:		Iron (Fe) <b>NOT KNOWN</b> Chlorides (Cl)					
								Hardness _____ Other _____		12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade					
								13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/>					
								Depth: From _____ ft. to _____ ft.		14 Nearest Source of possible contamination <b>75</b> feet <b>S.E.</b> Direction <b>SEPTIC</b> Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
								15 PUMP: <input type="checkbox"/> Not installed		Manufacturer's Name <b>F &amp; W</b>					
								Model Number <b>10CH7</b> HP <b>1</b> Volts <b>230</b>		Length of Drop Pipe <b>27</b> ft. capacity <b>27</b> G.P.M.					
								Type: <input checked="" type="checkbox"/> Submersible		<input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating					
16 Remarks, elevation, source of data, etc. AUGUED INFO BY DRILLER ITEM NO. _____ CORRECTED BY _____ ADDITION BY _____ ELEVATION <b>722.5</b> DEPTH TO ROCK _____				17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>BABER Well Drilling 0488</b> REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address <b>300 SHERWOOD - OTSEGO</b> Signed <b>Rip Baber</b> Date <b>apr. 22 - 80</b> AUTHORIZED REPRESENTATIVE											

GEOLOGICAL SURVEY SAMPLE No.

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <i>Willamette</i>	Township Name <i>RAW PLAIN</i>	Fraction <i>NW 1/4 SW 1/4</i>	Section Number <i>29</i>	Town Number <i>1 CR/S.</i>	Range Number <i>11</i> <input checked="" type="checkbox"/> <i>W</i>
Distance And Direction from Road Intersections <i>1500' West of River View Dr.</i>			3 OWNER OF WELL: <i>LARRY THOMPSON</i>		
Street address & City of Well Location <i>978 JAMES PLAIN WELL</i>			Address <i>928 JAMES ST PLAINWELL MI</i>		
Locate with "X" in section below 			4 WELL DEPTH: (completed) Date of Completion <i>66 ft. 10-30-85</i>		
2 FORMATION			5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>		
			6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>		
7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface <i>2 in. to 57 ft. Depth</i> <i>1 ft.</i> Weight <i>7 lbs./ft.</i> Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			8 SCREEN: Type: <i>PERFORATED</i> Dia.: <i>1 1/2"</i> Slot/Gauze <i>10</i> Length <i>3'</i> Set between <i>57 ft.</i> and <i>66 ft.</i> Fittings: <i>COUPLING</i> <i>WELL CHECK</i>		
			9 STATIC WATER LEVEL <i>30 ft. below land surface</i>		
10 PUMPING LEVEL below land surface <i>20 ft. after 1 hrs. pumping 15 g.p.m.</i>  <i>ft. after ___ hrs. pumping ___ g.p.m.</i>			11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____  Hardness _____ Other _____		
12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade			13 Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From <i>0</i> ft. to <i>66</i> ft.		
14 Nearest Source of possible contamination <i>75 feet S Direction SEPTIC TANK</i> Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <i>FRUIT &amp; LUNNING</i> Model Number <i>1/2 HP</i> Volts <i>120</i> Length of Drop Pipe <i>42 ft.</i> capacity <i>50</i> G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Reciprocating <input checked="" type="checkbox"/> Jet <input type="checkbox"/>		
16 Remarks, elevation, source of data, etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>Applied Well Drillers C-1159</i> REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address <i>10980 Mt St CT550</i> Signed <i>[Signature]</i> Date <i>10/30/85</i> AUTHORIZED REPRESENTATIVE		

GEOLOGICAL SURVEY NO. [ ]

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER [ ]

PART 127 ACT 368, P.A. 1978

<b>1 LOCATION OF WELL</b>		
County <u>Allegan</u>	Township Name <u>Gun Plain</u>	Fraction <u>SW 1/4 SE 1/4 NE 1/4</u>
Distance And Direction From Road Intersection <u>3/10 SE From M89 on River View Dr.</u> <u>1/10 W on James ST 926 James ST</u> <u>Plainwell Mich 49080</u>		Section Number <u>29</u>
Street Address & City of Well Location <u>49080</u>		Town Number <u>1 N/8</u>
Locate with "X" in Section Below		Range Number <u>11 E/W</u>
Sketch Map		
<b>2 FORMATION DESCRIPTION</b>		
FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Top Soil</u>	<u>0</u>	<u>2'</u>
<u>Sand + Gravel</u>	<u>2'</u>	<u>30'</u>
<u>Blue Clay + Gravel</u>	<u>30'</u>	<u>38'</u>
<u>Gravel + S. tone</u>	<u>38'</u>	<u>62'</u>
<b>3 OWNER OF WELL</b> <u>Douglass R. Quick</u>		
Address <u>926 James ST.</u> <u>Plainwell Mich. 49080</u>		
Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>4 WELL DEPTH (completed)</b> <u>62</u> ft Date of Completion <u>10/4/85</u>		
<input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input checked="" type="checkbox"/> Jetted <input type="checkbox"/>		
<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
<b>7 CASING</b> Diameter <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded <u>2</u> in to <u>58</u> ft depth Height Above/Below Surface <u>1</u> ft <u>2</u> in to <u>58</u> ft depth Weight <u>3.75</u> lbs/ft Grouted Drill Hole Diameter _____ in to _____ ft depth Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No _____ in to _____ ft depth <input type="checkbox"/> No		
<b>8 SCREEN</b> <u>SS</u> <input type="checkbox"/> Not installed Type <u>Strainer</u> Diameter <u>1 1/4"</u> Slot/Gauge <u>10</u> Length <u>4'</u> Set between <u>58</u> ft and <u>62</u> ft FITTINGS <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input checked="" type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft Other _____		
<b>9 STATIC WATER LEVEL</b> <u>25</u> ft below land surface <input type="checkbox"/> Flow		
<b>10 PUMPING LEVEL</b> below land surface <u>58</u> ft after <u>1</u> hrs pumping at <u>15</u> GPM <u>58</u> ft after <u>1</u> hrs pumping at <u>15</u> GPM		
<b>11 WELL HEAD COMPLETION</b> <input checked="" type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
<b>12 WELL GROUTED?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____		
<b>13 Nearest source of possible contamination</b> Type <u>Septic</u> Distance <u>75</u> ft Direction <u>SE</u> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>14 PUMP</b> <input type="checkbox"/> Not installed <input checked="" type="checkbox"/> Pump installation Only Manufacturer's name <u>Tait</u> Model number <u>SE2</u> HP <u>1/2</u> Volts <u>115</u> Length of Drop Pipe <u>42</u> ft capacity <u>12</u> GPM TYPE <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet PRESSURE TANK Manufacturer's name _____ Model number _____ Capacity _____ Gallons		
<b>15 Remarks.</b> elevation source of data etc		
<b>16. WATER WELL CONTRACTOR'S CERTIFICATION</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief <u>Baker + Lovett Well Drilling</u> <u>0488</u> REGISTERED BUSINESS NAME REGISTRATION NO Address <u>300 Sherwood ST. Otseppill</u> Signed <u>Rip Baker</u> Date <u>10/4/85</u> AUTHORIZED REPRESENTATIVE		

WATER WELL AND PUMP RECORD

PERMIT NUMBER

PART 127 ACT 368, P.A. 1978

**1 LOCATION OF WELL**

County Alcona Township Name Green Plain Fraction S 1/4 S 1/2 SE 1/4 Section Number 29 Town Number 1 N N/S Range Number R 11 E/W

Distance And Direction From Road Intersection  
100' W. Reips then Dr.  
45' 50' Charles St.

Street Address & City of Well Location

Locate with "X" in Section Below

**3 OWNER OF WELL**

Sam Boult  
Address 592 River View  
Plainville MI.

Address Same As Well Location?  Yes  No

**4 WELL DEPTH (completed)** 62 ft Date of Completion 9-15-84

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted

**6 USE**  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

**7 CASING**  Steel  Threaded  Plastic  Welded  
Height Above/Below Surface 1 ft  
Weight 11 lbs/ft  
Grouted Drill Hole Diameter \_\_\_\_\_ n to \_\_\_\_\_ ft depth  
Drive Shoe  Yes  No

**8 SCREEN**  Not installed  
Type John Diameter 3  
Slot 12 Length 4'  
Set between 58 ft and 62 ft  
FITTINGS  K-Packer  Lead Packer  Bremer Check  
 Blank above screen 1 ft Other \_\_\_\_\_

**9 STATIC WATER LEVEL** 30 ft below land surface  Flow

**10 PUMPING LEVEL** below land surface  
55 ft after 1 hrs pumping at 400 GPM  
\_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at \_\_\_\_\_ GPM

**11 WELL HEAD COMPLETION**  Pitless adapter  12" above grade  
 Basement offset  Approved pit

**12 WELL GROUTED?**  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft  
 Neat cement  Bentonite  Other \_\_\_\_\_  
No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

**13 Nearest source of possible contamination**  
Type Sept Distance 54 ft Direction SE  
Well disinfected upon completion?  Yes  No

**14 PUMP**  Not installed  Pump Installation Only  
Manufacturer's name Standard  
Model number 9D5 Pol HP 1/2 Volts 230  
Length of Drop Pipe 400 ft capacity 12 GPM  
TYPE  Submersible  Jet  
PRESSURE TANK  
Manufacturer's name Control  
Model number 20X201 Capacity 30 Gallons

**15 Remarks, elevation, source of data, etc**  
Replacement well

**16 WATER WELL CONTRACTOR'S CERTIFICATION**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief  
Kraai Well Drill 0119  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address 1499 10th Street  
Signed Bernie Kraai Date 10-17-84  
AUTHORIZED REPRESENTATIVE

RECEIVED  
MICH. DEPT. OF P.H. & WELLS  
OCT 26 1984  
Bureau of Environmental and Occupational Health - P.O. Box 110

NOV 17 1975

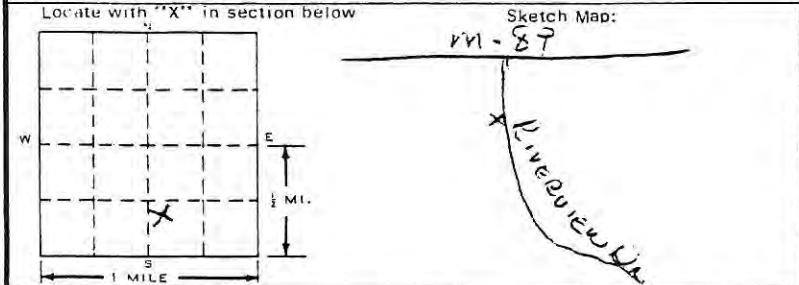
WATER WELL RECORD  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

1 LOCATION OF WELL

County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction <b>S 1/2 S 1/4 SE 1/4</b>	Section Number <b>29</b>	Town Number <b>1 N 8</b>	Range Number <b>11 E W.</b>
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Distance And Direction from Road Intersections  
**1/2 of a mile South of M-89**  
**ON EVERVIEW DR.**  
Street address & City of Well Location



3 OWNER OF WELL:  
Address  
**William Moran**  
**401 Everview Dr**  
**Plainwell Michigan**

4 WELL DEPTH: (completed) Date of Completion  
**30 ft.** **1/25/74**

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7 CASING: Threaded  Welded  Height: Above/Below  
Diam. Surface **1** ft.  
Weight **3.75** lbs./ft.  
Drive Shoe? Yes  No

2 FORMATION

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<b>Sand gravel Clay</b>	<b>15</b>	<b>15</b>
<b>Gravel</b>	<b>5</b>	<b>20</b>
<b>Water Sand</b>	<b>10</b>	<b>30</b>

8 SCREEN:  
Type: **Johnson** Dia.: **1 1/2**  
Slot/Gauze **10** Length **3 foot**  
Set between **27** ft. and **30** ft.  
Fittings: **Bremes Check**

9 STATIC WATER LEVEL  
**15** ft. below land surface

10 PUMPING LEVEL below land surface  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ g.p.m.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ g.p.m.

11 WATER QUALITY in Parts Per Million:  
Iron (Fe) \_\_\_\_\_ Chlorides (Cl) \_\_\_\_\_  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  In Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

14 Nearest Source of possible contamination  
**50** feet **West** Direction **septic** Type  
Well disinfected upon completion  Yes  No

15 PUMP:  Not installed  
Manufacturer's Name \_\_\_\_\_  
Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
Type:  Submersible  
 Jet  Reciprocating

16 Remarks, elevation, source of data, etc.  
ADDED INFO BY USER, ITEM NO.  
\*CORRECTED BY **DT**  
\*\*ADDITION BY **DT**  
ELEVATION **2732**  
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**D & H Well Drilling** 0269  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **1196 S. Wall St. N. Webster**  
Signed **Robert Damm** Date **1-29-74**  
AUTHORIZED REPRESENTATIVE



MAY 24 1974

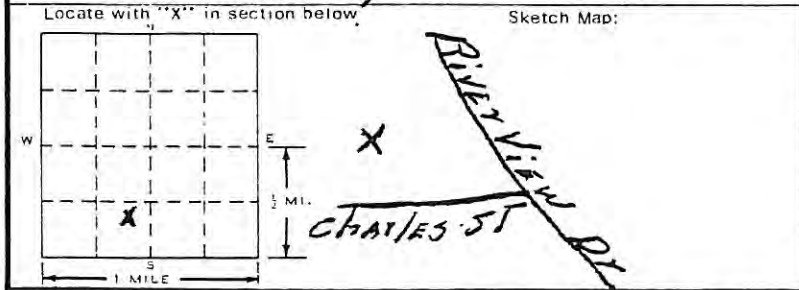
**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>					
County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction <b>NE 1/4 SW 1/4</b>	Section Number <b>29</b>	Town Number <b>1 N.S.</b>	Range Number <b>11 E.W.</b>

Distance and Direction from Road Intersections  
**1/2 MILE W OF RIVERVIEW DR ON CHARLES ST**  
**923 CHARLES ST PLAINWELL, MICH**  
Street address & City of Well Location

**3 OWNER OF WELL: MERVIN MAPES**  
Address **PLAINWELL LUMBER CO**  
**712 E. BRIDGE PLAINWELL, MICH**



**4 WELL DEPTH: (completed) Date of Completion**  
**30 ft. April 4-74**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above/Below Surface **1** ft.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
-------------	----------------------	----------------------------

<b>SAND &amp; GRAVEL</b>	<b>30'</b>	<b>30'</b>
--------------------------	------------	------------

**2** in. to **26** ft. Depth Weight **365** lbs./ft.  
**2** in. to **26** ft. Depth Drive Shoe? Yes  No

**8 SCREEN:**  
Type: **STRAINER** Dia.: **1 1/4"**  
Slot/Groove **7** Length **4"**  
Set between **26** ft. and **30** ft.  
Fittings: **1 1/4" coupling**

**9 STATIC WATER LEVEL**  
**8** ft. below land surface

**10 PUMPING LEVEL below land surface**  
**20** ft. after **1** hrs. pumping **10** g.p.m.

**20** ft. after **1** hrs. pumping **10** g.p.m.

**11 WATER QUALITY in Parts Per Million:**  
Iron (Fe) **NOT KNOWN** Chlorides (Cl)  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source of possible contamination**  
**75** feet **S.W.** Direction **SEPTIC** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name \_\_\_\_\_  
Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
Type:  Submersible  Jet  Reciprocating

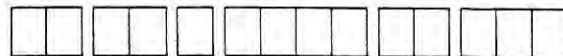
USE A 2ND SHEET IF NEEDED

**16 Remarks, elevation, source of data, etc.**

ADDED INFO BY DRILLER, ITEM NO.  
\*CORRECTED BY  
\*\*ACQUISITION BY  
ELEVATION **2310'**  
DEPTH TO ROCK

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**BAKERS WELL DRILLING 0488**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **300 SHERWOOD ST OTSEGO, MICH**  
Signed **Pip Baker** Date **April-16-74**  
AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.

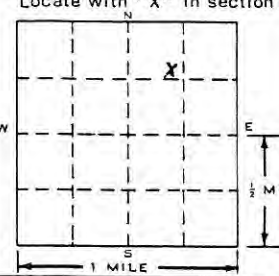


DEC 01 1980

**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>			<b>3 OWNER OF WELL:</b>		
County <i>FLIPPO</i>	Township Name <i>CONPLAIN</i>	Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	Section Number <i>22</i>	Town Number <i>T17</i>	Range Number <i>N/S. E/W.</i>
Distance And Direction from Road Intersections <i>75 FT SOUTH OF CHARLES ST.</i>			Address <i>927 CHARLES ST PLAINWELL MICH</i>		
Street address & City of Well Location Locate with "X" in section below			4 WELL DEPTH: (completed) Date of Completion <i>31</i> ft. <i>10-4-80</i>		
Sketch Map: 			5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>		
2 FORMATION			6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>		
			7 CASING: Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface <i>1</i> ft. 2 in. to <i>29</i> ft. Depth Weight <i>375</i> lbs./ft. in. to <i>29</i> ft. Depth Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
SANDY GRVEL			8 SCREEN: Type: <i>121</i> Dia.: <i>4</i> Slot/Gauze <i>60</i> Length <i>36</i> ft. Set between <i>29</i> ft. and <i>?</i> ft. Fittings: <i>BAEMER CHECK</i>		
GRAVEL MIXED WITH CLAY			9 STATIC WATER LEVEL <i>16</i> ft. below land surface		
WATER SAND			10 PUMPING LEVEL below land surface <i>15</i> ft. after <i>1</i> hrs. pumping <i>10</i> g.p.m. <i>15</i> ft. after <i>1</i> hrs. pumping <i>13</i> g.p.m.		
			11 WATER QUALITY in Parts Per Million: Iron (Fe) <i>NOT</i> Chlorides (Cl) <i>UNKNOWN</i> Hardness _____ Other _____		
			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade		
			13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From _____ ft. to _____ ft.		
			14 Nearest Source of possible contamination <i>SEPTIC</i> <i>75</i> feet <i>EAST</i> Direction _____ Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name _____ Model Number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		
16 Remarks, elevation, source of data, etc. ADDED INFO BY DRILLER, ITEM NO. *CORRECTED BY **ADDITION BY ELEVATION DEPTH TO ROCK			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>Howard A. Neis</i> <i>1661</i> REGISTERED BUSINESS NAME REGISTRATION NO. Address <i>560 19TH ST CTSC 90 MICH</i> Signed <i>Howard A. Neis</i> Date <i>10-4-80</i> AUTHORIZED REPRESENTATIVE		

USE A 2ND SHEET IF NEEDED

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

PART 127 ACT 368 P.A. 1978

<b>1 LOCATION OF WELL</b>		<b>3 OWNER OF WELL</b>																
County <u>Allegan</u>	Township Name <u>Gun Plain</u>	Fraction <u>NE 1/4 SE 1/4 SE 1/4</u>	Section Number <u>29</u> Town Number <u>1 N 1/2</u> Range Number <u>11 SW</u>															
Distance And Direction From Road Intersection <u>2 1/10 mile west on m-89 from 8th ST.</u>		Address <u>Bill Gleason</u> <u>845 m-89</u> <u>Plainwell, Mich</u>																
Street Address & City of Well Location		Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
Locate with "X" in Section Below		<b>4 WELL DEPTH (completed)</b> <u>36</u> ft Date of Completion <u>7-23-86</u>																
Sketch Map		<input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input checked="" type="checkbox"/> Jetted <input type="checkbox"/>																
		<b>6 USE</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>																
<b>2 FORMATION DESCRIPTION</b>		<b>7 CASING Diameter</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded																
		Height Above/Below Surface <u>1</u> ft Weight <u>3.25</u> lbs/ft																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">FORMATION DESCRIPTION</th> <th style="width: 20%;">THICKNESS OF STRATUM</th> <th style="width: 20%;">DEPTH TO BOTTOM OF STRATUM</th> </tr> </thead> <tbody> <tr> <td>TOP Soil</td> <td>2'</td> <td>2'</td> </tr> <tr> <td>Sand &amp; Gravel</td> <td>17'</td> <td>19'</td> </tr> <tr> <td>Brown Clay</td> <td>4'</td> <td>23'</td> </tr> <tr> <td>Coarse Water Sand</td> <td>13'</td> <td>36'</td> </tr> </tbody> </table>		FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	TOP Soil	2'	2'	Sand & Gravel	17'	19'	Brown Clay	4'	23'	Coarse Water Sand	13'	36'	<input type="checkbox"/> Not installed Type <u>Steel Strainer</u> Diameter <u>1 1/4"</u> Slot/Gauge <u>10</u> Length <u>3'</u> Set between <u>33</u> ft and <u>36</u> ft FITTINGS <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input checked="" type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above casing <input type="checkbox"/> Other	
		FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM														
TOP Soil	2'	2'																
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Brown Clay	4'	23'																
Coarse Water Sand	13'	36'																
USE A 2ND SHEET IF NEEDED		<b>9 STATIC WATER LEVEL</b> <u>21</u> ft below land surface <input type="checkbox"/> Flow																
		<b>10 PUMPING LEVEL</b> below land surface <u>33</u> ft after <u>1</u> hrs pumping at <u>15</u> GPM <u>33</u> ft after <u>1</u> hrs pumping at <u>15</u> GPM																
RECEIVED Bureau of Environmental Geology		<b>11 WELL HEAD COMPLETION</b> <input checked="" type="checkbox"/> Brass adapter <input checked="" type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit																
		<b>12 WELL GROUTED?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____																
15 Remarks, elevation, source of data, etc.  Bureau of Environmental Geology		<b>13 Nearest source of possible contamination</b> Type <u>Septic</u> Distance <u>75</u> ft Direction <u>North</u> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
		<b>14 PUMP</b> <input checked="" type="checkbox"/> Not installed <input type="checkbox"/> Pump installation Only Manufacturer's name _____ Model number _____ HP _____ Volts _____ Length of Drop Pipe <u>27'</u> It capacity _____ GPM TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK Manufacturer's name _____ Model number _____ Capacity _____ Gallons																
16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my supervision and this report is true to the best of my knowledge and belief. <u>Baker Well Drilling</u> <u>0488</u> REGISTERED BUSINESS NAME REGISTRATION NO. Address <u>300 Sherwood Otsego, Mich</u> Signed <u>P.A. Baker</u> Date <u>7-23-86</u> AUTHORIZED REPRESENTATIVE																		

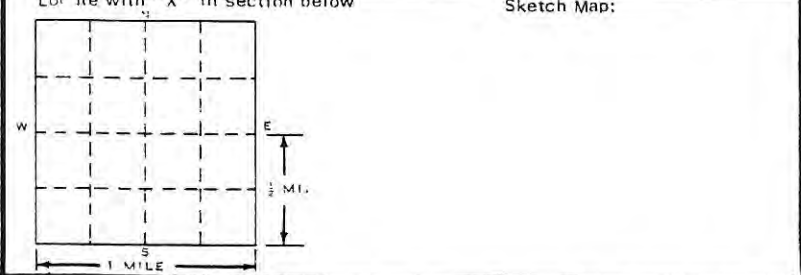
**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>				
County <b>Allegan</b>	Township Name <b>Gun Plains</b>	Fraction <b>2 1/2 NE</b>	Section Number <b>30</b>	Town Number <b>N/S.</b>
Range Number <b>11 E/W</b>				

Distance And Direction from Road Intersections  
**200' N. of Allegan St. and 20' E. of Scott St.**

Street address & City of Well Location  
Locate with "X" in section below



**3 OWNER OF WELL:**  
**Plainwell Paper Company**  
Address **Plainwell, Michigan**

**4 WELL DEPTH:** (Completed) Date of Completion  
**38'** ft. **June 17, 1974**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored  RC

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above/Below Surface **1** ft.  
Diam. **16** in. to **23** ft. Depth Weight **62.5** lbs./ft.  
in. to \_\_\_ ft. Depth Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Top Soil	0	1
Coarse Sand & Gravel with Boulders	17	18
Kalamazoo River Alluvium	20 to 30	38
Clay	38	

**8 SCREEN:** **Johnson SS**  
Type: **WW** Dra.: **16"**  
Slot/Gauze **.055** Length **15'**  
Set between **23** ft. and **38** ft.  
Fittings:

**9 STATIC WATER LEVEL**  
**14** ft. below land surface

**10 PUMPING LEVEL** below land surface  
**20** ft. after **8** hrs. pumping **1500** g.p.m.  
\_\_\_ ft. after \_\_\_ hrs. pumping \_\_\_ g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) \_\_\_ Chlorides (Cl) \_\_\_  
Hardness \_\_\_ Other \_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

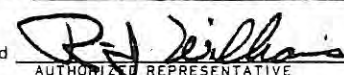
**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From **18** ft. to **38** ft.

**14 Nearest Source of possible contamination**  
\_\_\_ feet \_\_\_ Direction \_\_\_ Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name \_\_\_\_\_  
Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
Type:  Submersible  
 Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

ADDED INFO BY DRILLER. ITEM NO. \_\_\_\_\_  
\*CORRECTED BY \_\_\_\_\_  
\*REVISION BY \_\_\_\_\_  
\*DATE \_\_\_\_\_  
\*NOTE TO ROCK \_\_\_\_\_

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**Peerless-Midwest, Inc.** **1250**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **Granger, Indiana**  
Signed  Date **8-23-74**  
AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.

JAN 10 1978

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

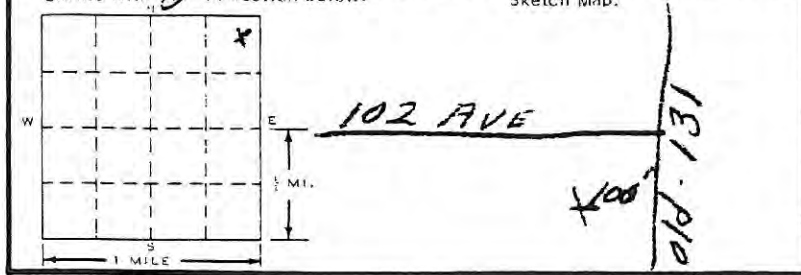
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**1 LOCATION OF WELL**

County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction <b>NE 1/4 NE 1/4</b>	Section Number <b>31</b>	Town Number <b>1 N.B.</b>	Range Number <b>11 E.W.</b>
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Distance and Direction from Road Intersections  
**S.W. CORNER of 102 AVE & old 131**

Street address & City of Well Location  
**190 Douglas Ave Plainwell, Mich**



**3 OWNER OF WELL:** **RICHARD L. CARPENTER**

Address **190 DOUGLAS AVE PLAINWELL MICH**

**4 WELL DEPTH:** (completed) Date of Completion  
**54 ft. DEC 5-77**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above ~~Surface~~ Surface **1** ft.

**4** in. to **46** ft. Depth Weight **10.79** lbs./ft.  
**3** in. to **1** ft. Depth Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND & GRAVEL	25'	25'
FINE SAND	15'	40'
BLUE CLAY	4'	44'
SAND	10'	54'

**8 SCREEN:** **5.5**  
Type: **STRAINER** Dia.: **3"**  
Slot/Screen **10** Length **6'**  
Set between **46** ft. and **54** ft.  
Fittings: **3" x 12" NIP LEAD PACKER**

**9 STATIC WATER LEVEL**  
**15** ft. below land surface

**10 PUMPING LEVEL** below land surface  
**15** ft. after **1** hrs. pumping **35** g.p.m.

**15** ft. after **1** hrs. pumping **35** g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) **NOT KNOWN** Chlorides **NOT KNOWN**  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source** of possible contamination  
**75** feet **N.W.** Direction **SEPTIC** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **TAIT**  
Model Number **10P325** HP **1** Volts **230**  
Length of Drop Pipe **32** ft. capacity **25** G.P.M.  
Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

WELL DRILLED BY DRILLER, ITEM NO. \_\_\_\_\_

\*CORRECTED BY \_\_\_\_\_

\*\*ADDITION BY \_\_\_\_\_

ELEVATION **730**

DEPTH TO ROCK \_\_\_\_\_

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

**BAKERS Well Drilling 0488**  
REGISTERED BUSINESS NAME REGISTRATION NO.

Address **300 SHERWOOD ST. OTSEGO**

Signed **Rip Baker** Date **DEC 7-77**  
AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.

**WATER WELL RECORD**  
ACT 294 PA 1965

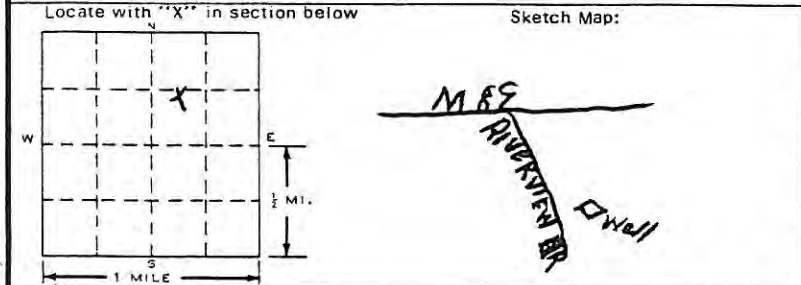
MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

**1 LOCATION OF WELL**

County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	Section Number <b>32</b>	Town Number <b>11 N</b>	Range Number <b>11 W</b>
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Distance And Direction from Road Intersections  
**60 FT EAST OF RIVERVIEW DR.  
885 RIVERVIEW DR. PLAINWELL MICH**

Street address & City of Well Location



**3 OWNER OF WELL:**  
**FREDERICK BOULTER**  
Address **885 RIVERVIEW DR. PLAINWELL MICH**

**4 WELL DEPTH:** (completed) **32** ft. Date of Completion **6/26/85**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above/Below Surface **1** ft.  
Diam. **2** in. to **28** ft. Depth Weight **375** lbs./ft.  
**2** in. to **28** ft. Depth Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	2	2
CLAY	2	4
COARSE SAND	19	23
WATER SAND	5	28

**8 SCREEN:**  
Type **STAINLESS** Dia.: **1 1/4**  
Slot/Gauze **7** Length **4**  
Set between **28** ft. and **32** ft.

Fittings: **BREMNER CHECK**

**9 STATIC WATER LEVEL**  
**24** ft. below land surface

**10 PUMPING LEVEL** below land surface  
**24** ft. after **1** hrs. pumping **6** g.p.m.

**24** ft. after \_\_\_ hrs. pumping **6** g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) **NOT** Chlorides **KNOWN**  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source of possible contamination**  
**75** feet **WEST** Direction **SEPTIC** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name **MYERS**  
Model Number **YMH 50** HP **1/2** Volts **120**  
Length of Drop Pipe **21** ft. capacity **7.5** G.P.M.  
Type:  Submersible  
 Jet  Reciprocating

16 Remarks, elevation, source of data, etc.

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**REX BROTHERS** **1661**  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address **560 19TH ST OTSEGO MICH**  
Signed **Howard R. Rex** Date **6/26/85**  
AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		
County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction <b>1/4 1/4 1/4</b>
Section Number <b>32</b>		Range Number <b>11</b>
Town Number <b>10 NYS</b>		EW
Distance And Direction From Road Intersection <b>75 FT WEST OF RIVERVIEW DR.</b>		
Street Address & City of Well Location <b>874 RIVERVIEW DR PHINWELL</b>		
Locate with "X" in Section Below		Sketch Map:
<b>3 OWNER OF WELL:</b> <b>LEONARD WHYMENT</b> Address <b>874 RIVERVIEW DR PLAINWELL MICH</b>		
Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>4 WELL DEPTH: (completed)</b> <b>32</b> ft.		Date of Completion <b>5/6/87</b>
<b>5</b> <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input checked="" type="checkbox"/> Jetted <input type="checkbox"/>		
<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>		
<b>7 CASING:</b> <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded Diameter <b>28</b> in. to <b>32</b> ft. depth Grouted Drill Hole Diameter <b>28</b> in. to <b>32</b> ft. depth Drive Shoe <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>8 SCREEN:</b> <input type="checkbox"/> Not Installed Type <b>STAINLESS</b> Diameter <b>1 1/4</b> Slot/Gauze <b>7</b> Length <b>4 FT</b> Set between <b>28</b> ft. and <b>32</b> ft. FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input checked="" type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft. Other _____		
<b>9 STATIC WATER LEVEL:</b> <b>15</b> ft. below land surface <input type="checkbox"/> Flow		
<b>10 PUMPING LEVEL:</b> below land surface <b>15</b> ft. after <b>1</b> hrs. pumping at <b>8</b> G.P.M. <b>15</b> ft. after <b>1</b> hrs. pumping at <b>8</b> G.P.M.		
<b>11 WELL HEAD COMPLETION:</b> <input checked="" type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit		
<b>12 WELL GROUTED?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft. <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____		
<b>13 Nearest source of possible contamination</b> Type <b>SEPTIC</b> Distance <b>200</b> ft. Direction <b>WEST</b> Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>14 PUMP:</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name _____ Model number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft. capacity _____ G.P.M. TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet _____ PRESSURE TANK: Manufacturer's name _____ Model number _____ Capacity _____ Gals. _____		
<b>15. Remarks, elevation, source of data, etc:</b>		
<b>16. WATER WELL CONTRACTOR'S CERTIFICATION:</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>REX BROTHERS</b> <b>1111</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>260 19th St OSEGO MICH</b> Signed <b>Howard</b> Date <b>5/18/87</b> AUTHORIZED REPRESENTATIVE		

RECEIVED  
 Mich. Dept. of Public Health  
 JUL 01 1987  
 Bureau of Environmental and  
 Occupational Health - GWOS

D67d 2/84

Authority: Act 368 PA 1978  
 Completion: Required  
 Penalty: Conviction of a violation of any provision is a misdemeanor

GEOLOGICAL SURVEY NO.

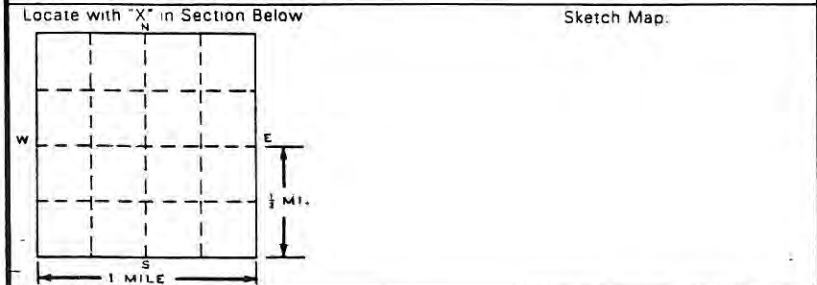
**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

PART 127 ACT 368, P.A. 1978

<b>LOCATION OF WELL</b>				
County <b>Allegan</b>	Township Name <b>Plain</b>	Fraction <b>1/4 sec 1/4 sec 1/4</b>	Section Number <b>32</b>	Town Number <b>N#</b>
Range Number <b>11 #W</b>				

Distance And Direction From Road Intersection  
**SIS. 10<sup>th</sup> ST PLAINWELL**



**3 OWNER OF WELL**  
**Betty & Dick Bresett TOP HAT**  
Address  
**P.O. Box 65 Plainwell, MI 49080**  
Address Same As Well Location?  Yes  No

**4 WELL DEPTH (completed)** **112** ft  
**Date of Completion** **May 30, 1987**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted

**6 USE**  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

**7 CASING Diameter**  Steel  Threaded  Plastic  Welded  
Height: Above/Below  
Surface \_\_\_\_\_ ft.  
Weight \_\_\_\_\_ lbs./ft.  
Grouted Drill Hole Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
Drive Shoe  Yes  No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay	12	12
Sand with thin clay	69	81
Gravel	9	90
Clay	12	102
Sand fine	3	105
Sand		112
Stopped drilling at 112'	112	
Plugged old well with 1 bag well		
plug - 72'.. 4-bags Ben Seal on up.		

**8 SCREEN**  Not Installed  
Type **SA** Diameter **3"**  
Slot/Gauze **12** Length **5'**  
Set between \_\_\_\_\_ ft and \_\_\_\_\_ ft.  
**FITTINGS**  K-Packer  Lead Packer  Bremer Check  
 Blank above screen \_\_\_\_\_ ft Other \_\_\_\_\_

**9 STATIC WATER LEVEL**  
**10** ft below land surface  Flow

**10 PUMPING LEVEL** below land surface  
\_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at \_\_\_\_\_ G.P.M.  
\_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at \_\_\_\_\_ G.P.M.

**11 WELL HEAD COMPLETION**  2" less adapter  12" above grade  
 Basement offset  Approved pit

**12 WELL GROUTED?**  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft  
 Neat cement  Bentonite  Other **Ben seal**  
No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

**13 Nearest source of possible contamination**  
Type \_\_\_\_\_ Distance \_\_\_\_\_ ft Direction \_\_\_\_\_  
Well disinfected upon completion?  Yes  No

**14 PUMP**  Not Installed  Pump Installation Only  
Manufacturer's name **Used their pump**  
Model number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
Length of Drop Pipe \_\_\_\_\_ ft capacity \_\_\_\_\_ G.P.M.  
TYPE  Submersible  Jet \_\_\_\_\_  
**PRESSURE TANK**  
Manufacturer's name \_\_\_\_\_  
Model number \_\_\_\_\_ Capacity \_\_\_\_\_ Gallons

15 Remarks, elevation, source of data, etc

RECEIVED  
Mich. Dept. of Public Health  
FEB 14 1987

**16 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

REGISTERED BUSINESS NAME **McKenney Well Drilling** Registration No. **03-1696**  
Address **3146 Melodee Pl. Dr. Allegan, MI 49010**  
Signed **Stanley McKenney** Date **May 30, 1987**  
AUTHORIZED REPRESENTATIVE

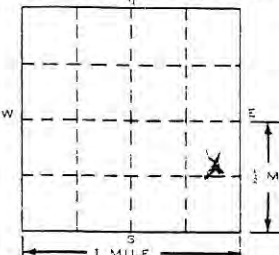


GEOLOGICAL SURVEY SAMPLE No.

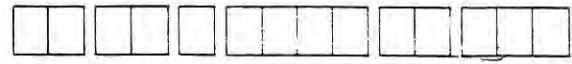
NOV 15 1979

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>		<b>3 OWNER OF WELL:</b>	
County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction 1/4 1/4 1/4	Section Number <b>20</b>
Distance And Direction from Road Intersections <b>125 FT NORTH OF DIVISION ST.</b>		Town Number <b>T11</b>	
Street address & City of Well Location <b>1071 Division St Plainwell</b>		Range Number <b>11 E.W.</b>	
Locate with "X" in section below 		<b>3 OWNER OF WELL:</b> <b>JIM CARY</b> Address <b>1071 DIVISION ST PLAINWELL</b>	
<b>2 FORMATION</b>		<b>4 WELL DEPTH: (completed)</b> Date of Completion <b>33</b> ft. <b>10/3/79</b>	
<b>SAND</b>	THICKNESS OF STRATUM <b>15</b>	DEPTH TO BOTTOM OF STRATUM <b>15</b>	5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>
<b>HARD CLAY</b>	<b>3</b>	<b>18</b>	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>
<b>GRAVEL + SAND</b>	<b>10</b>	<b>28</b>	7 CASING: Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Diam. Surface <b>1</b> ft. Weight <b>375</b> lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>WAKE SAND.</b>	<b>5</b>	<b>33</b>	8 SCREEN: Type: <b>121</b> Dia.: <b>1 1/4</b> ft. Slot/Gauze <b>60</b> Length Set between <b>33</b> ft. and <b>30</b> ft. Fittings: <b>BREMER CHECK</b>
			9 STATIC WATER LEVEL <b>14</b> ft. below land surface <b>9</b>
			10 PUMPING LEVEL below land surface <b>14</b> ft. after <b>1</b> hrs. pumping <b>9</b> g.p.m. <b>14</b> ft. after <b>1</b> hrs. pumping <b>9</b> g.p.m.
			11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ <b>NOT KNOWN</b> Hardness _____ Other _____
			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade
			13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> _____ Depth: From _____ ft. to _____ ft.
			14 Nearest Source of possible contamination <b>75</b> feet <b>SOUTH</b> Direction <b>SEPTIC</b> Type Well disinfected upon completion <input type="checkbox"/> Yes <input type="checkbox"/> No
			15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <b>MAYERS</b> Model Number <b>VMH75</b> HP <b>3/4</b> Volts <b>230</b> Length of Drop Pipe <b>21</b> ft. capacity <b>9</b> G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating
16 Remarks, elevation, source of data, etc.  ADDED INFO BY DRILLER, ITEM NO. *CORRECTED BY **ADDITION BY ELEVATION CUT TO ROCK		17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>PEX BROTHER</b> <b>166</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>560 19th St OTSEGO MICH</b> Signed <b>Howard Pex</b> Date <b>10/3/79</b> AUTHORIZED REPRESENTATIVE	

GEOLOGICAL SURVEY SAMPLE No. **JAN 20 1975**



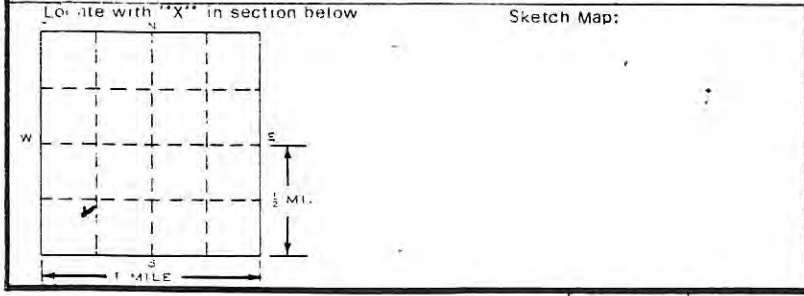
**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

**1 LOCATION OF WELL**

County: Allegan Township Name: Hun Plains Fraction: SW 1/4 SW 1/4 NE 1/4 Section Number: 20 Town Number: 1M Range Number: 11 W East

Distance and Direction from Road Intersections:  
951 Industrial parkway  
Plainwell Mich.



3 OWNER OF WELL:  
Pallets Unlimited  
Address: Plainwell Mich.

4 WELL DEPTH: (completed) Date of Completion  
44 ft. Dec 17 - 1974

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7 CASING: Threaded  Welded   
Height: Above/Below Surface 1 ft.  
Weight 1 lbs./ft.  
Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Sand</u>	<u>25</u>	<u>25</u>
<u>Clay</u>	<u>2</u>	<u>27</u>
<u>Shale &amp; Clay</u>	<u>13</u>	<u>40</u>
<u>Water Gravel</u>	<u>4</u>	<u>44</u>

8 SCREEN:  
Type: Johnson Dia.: 2  
Slot/Gauze 10 Length 4 feet  
Set between 40 ft. and 44 ft.  
Fittings: Cupping & Brazing

9 STATIC WATER LEVEL  
25 ft. below land surface

10 PUMPING LEVEL below land surface  
35 ft. after 1 hrs. pumping 10 g.p.m.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping \_\_\_\_\_ g.p.m.

11 WATER QUALITY in Parts Per Million:  
Iron (Fe) \_\_\_\_\_ Chlorides (Cl) \_\_\_\_\_  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  In Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

14 Nearest Source of possible contamination  
75 feet NE Direction septic Type  
Well disinfected upon completion  Yes  No

15 PUMP:  
 Not installed  
Manufacturer's Name: Acad  
Model Number: SE-216 HP 1/4 Volts 220  
Length of Drop Pipe 35 ft. capacity 10 G.P.M.  
Type:  Submersible  Jet  Reciprocating

16 Remarks, elevation, source of data, etc. NO. \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DEPTH TO ROCK \_\_\_\_\_

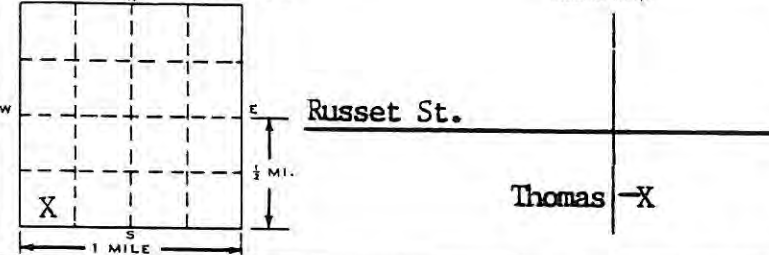
17 WATER WELL CONTRACTOR'S CERTIFICATION  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
John Myers 0473  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address Martin Mich.  
Signed John Myers Date 12/17/74  
AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY NO.

**WATER WELL AND PUMP RECORD**

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PERMIT NUMBER

<b>1 LOCATION OF WELL</b>		<b>3 OWNER OF WELL:</b>	
County <b>Allegan</b>	Township Name <b>Gun Plain</b>	Fraction <b>SW 1/4 SW 1/4 SW 1/4</b>	Section Number <b>20</b>
Town Number <b>1 N/g</b>		Range Number <b>11 E/W</b>	
Distance And Direction From Road Intersection  <b>180ft North Of Russet St. And 75ft West of Thomas</b>		Address <b>Barb Bredow 811 Thomas Plainwell, Mich. 49080</b>	
Street Address & City of Well Location		Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Locate with "X" in Section Below		<b>4 WELL DEPTH: (completed) 59 ft. Date of Completion 4-9-86</b>	
Sketch Map: 		<b>5</b> <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>	
<b>2 FORMATION DESCRIPTION</b>		<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>	
	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<b>7 CASING:</b> <input checked="" type="checkbox"/> Steel <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Plastic <input type="checkbox"/> Welded Diameter <b>2</b> in. to <b>59</b> ft depth Height: <del>44</del> /Below Surface _____ ft Weight _____ lbs./ft Grouted Drill Hole Diameter _____ in. to _____ ft. depth Drive Shoe <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Well was abandoned and cemented with 7 1/2 gallons of Bentonite Hole Plug!</b>			<b>8 SCREEN:</b> <input type="checkbox"/> Not installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft and _____ ft FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft Other _____
			<b>9 STATIC WATER LEVEL:</b> _____ ft below land surface <input type="checkbox"/> Flow
			<b>10 PUMPING LEVEL:</b> below land surface _____ ft after _____ hrs. pumping at _____ G.P.M. _____ ft after _____ hrs. pumping at _____ G.P.M.
			<b>11 WELL HEAD COMPLETION:</b> <input type="checkbox"/> Pitless adapter <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit
			<b>12 WELL GROUTED?</b> <input type="checkbox"/> No <input type="checkbox"/> Yes From _____ to _____ ft <input type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____
			<b>13 Nearest source of possible contamination</b> Type _____ Distance _____ ft Direction _____ Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No
			<b>14 PUMP</b> <input type="checkbox"/> Not installed <input type="checkbox"/> Pump installation Only Manufacturer's name _____ Model number _____ HP _____ Volts _____ Length of Drop Pipe _____ ft capacity _____ G.P.M. TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet _____ PRESSURE TANK: Manufacturer's name _____ Model number _____ Capacity _____ Gallons
<b>15. Remarks, elevation, source of data, etc</b>		<b>16. WATER WELL CONTRACTOR'S CERTIFICATION:</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <b>Ron Kraak Well Drilling 03-1601</b> REGISTERED BUSINESS NAME REGISTRATION NO. Address <b>Shelbyville, Mich. 49344</b> Signed <i>Ronald Kraak</i> Date <b>4-9-86</b> AUTHORIZED REPRESENTATIVE	

RECEIVED  
MICH. DEPT. OF PUBLIC HEALTH  
APR 28 1985  
Bureau of Environmental and Occupational Health

USE A 2ND SHEET IF NEEDED

GEOLOGICAL SURVEY NO

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

1 LOCATION OF WELL  
 County **Allegan** Township Name **Gun Plain** Fraction **SW 1/4 SW 1/4 SW 1/4** Section Number **20** Town Number **1** Range Number **11 E/W**

Distance And Direction From Road Intersection  
**200ft East of Thomas And 59ft South of Cherrywood**  
 Street Address & City of Well Location  
 Locate with "X" in Section Below

3 OWNER OF WELL:  
**Steve DeBruin**  
 Address **208 Cherrywood Plainwell, Mich. 49080**  
 Address Same As Well Location?  Yes  No

4 WELL DEPTH: (completed) **28** ft. Date of Completion **3-31-86**

5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted

6 USE:  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

7 CASING: Diameter  Steel  Threaded  Plastic  Welded  
**2** in. to **28** ft depth  
 Height Above/Below Surface **1** ft. Weight **3.75** lbs./ft.  
 Drive Shoe  Yes  No

2 FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Well was abandoned and plugged with 3.9 gallons Bentonite Hole Plug.		
Check Valve Was Removed!!		

8 SCREEN:  Not Installed  
 Type \_\_\_\_\_ Diameter \_\_\_\_\_  
 Slot/Gauze \_\_\_\_\_ Length \_\_\_\_\_  
 Set between \_\_\_\_\_ ft and \_\_\_\_\_ ft  
 FITTINGS:  K-Packer  Lead Packer  Bremer Check  
 Blank above screen \_\_\_\_\_ ft Other \_\_\_\_\_

9 STATIC WATER LEVEL: \_\_\_\_\_ ft below land surface  Flow

10 PUMPING LEVEL: below land surface  
 \_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at \_\_\_\_\_ G.P.M.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. pumping at \_\_\_\_\_ G.P.M.

11 WELL HEAD COMPLETION  Pitless adapter  12" above grade  
 Basement offset  Approved pit

12 WELL GROUTED?  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft  
 Neat cement  Bentonite  Other \_\_\_\_\_  
 No. of bags of cement \_\_\_\_\_ Additives \_\_\_\_\_

13 Nearest source of possible contamination  
 Type \_\_\_\_\_ Distance \_\_\_\_\_ ft Direction \_\_\_\_\_  
 Well disinfected upon completion?  Yes  No

14 PUMP  Not Installed  Pump Installation Only  
 Manufacturer's name \_\_\_\_\_  
 Model number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
 Length of Drop Pipe \_\_\_\_\_ ft capacity \_\_\_\_\_ G.P.M.  
 TYPE:  Submersible  Jet \_\_\_\_\_  
 PRESSURE TANK:  
 Manufacturer's name \_\_\_\_\_  
 Model number \_\_\_\_\_ Capacity \_\_\_\_\_ Gallons

15 Remarks, elevation, source of data, etc.

RECEIVED  
 MICH. DEPT. OF PUBLIC HEALTH  
 APR 28 1986  
 Bureau of Environmental & Occupational Health - RWG

16. WATER WELL CONTRACTOR'S CERTIFICATION:  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief

**Ron Kraai-Well Drilling 03-1601**  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address **Shelbyville, Mich. 49344**  
 Signed **Ronald Kraai** Date **3-31-86**  
 AUTHORIZED REPRESENTATIVE

D67d 2/84

GEOLOGICAL SURVEY SAMPLE No.

SEP 20 1976

**WATER WELL RECORD**  
ACT 294 PA 1965

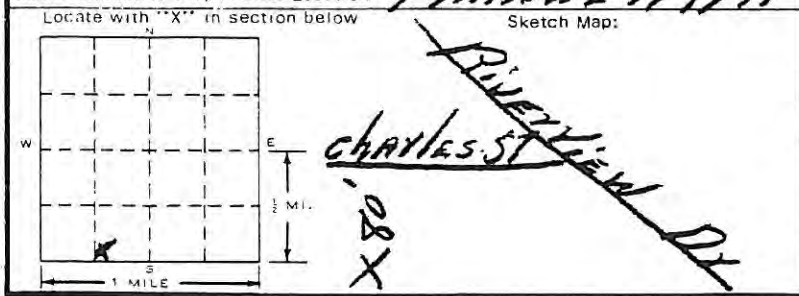
MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

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**1 LOCATION OF WELL**

County <b>ALLEGAN</b>	Township Name <b>GUN PLAIN</b>	Fraction <b>NW 1/4 SW 1/4</b>	Section Number <b>29</b>	Town Number <b>1 N.S.</b>	Range Number <b>11 E/W.</b>
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Distance And Direction from Road Intersections  
**1/2 MILE W. OF RIVERTVIEW DR**  
**926 CHARLES ST ON CHARLES ST**  
Street address & City of Well Location  
**PLAINWELL, MI**



**3 OWNER OF WELL: CHARLES W. VICKINGS**  
Address **926 CHARLES ST**  
**PLAINWELL, MI.**

**4 WELL DEPTH: (completed) Date of Completion**  
**44 ft. July 30-76**

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded   
Diam. \_\_\_\_\_ Height: Above ~~Surface~~ \_\_\_\_\_ ft.  
Surface **1** ft.  
Weight **3.75** lbs./ft.  
Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<b>SAND &amp; GRAVEL</b>	<b>44"</b>	<b>44"</b>

**8 SCREEN:**  
Type: **STRAINER** Dia.: **1 1/4"**  
Slot/Gauge **10** Length **4'**  
Set between **40** ft. and **44** ft.  
Fittings: **1 1/4" coupling**

**9 STATIC WATER LEVEL**  
**14** ft. below land surface

**10 PUMPING LEVEL below land surface**  
**14** ft. after **1** hrs. pumping **12** g.p.m.

**14** ft. after **1** hrs. pumping **12** g.p.m.

**11 WATER QUALITY in Parts Per Million:**  
Iron (Fe) **NOT KNOWN** Chlorides (Cl) \_\_\_\_\_  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite   
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source of possible contamination**  
**75 S.W.** Direction **SEPTIC** Type  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name \_\_\_\_\_  
Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

ADDED INFO BY DRILLER, ITEM NO. \_\_\_\_\_  
\* CORRECTED BY \_\_\_\_\_  
\*\* ADDITION BY **5730** \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DEPTH TO ROCK \_\_\_\_\_

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**BABERS Well Drilling 0488**  
REGISTERED BUSINESS NAME REGISTRATION NO. \_\_\_\_\_  
Address **300 Sherwood ST - OTSEGO**  
Signed **Rip Baber** Date **Aug-2-76**  
AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY NO. MAY 10 1984

**WATER WELL AND PUMP RECORD**

PERMIT NUMBER

PART 127 ACT 368 P.A. 1978

**1 LOCATION OF WELL**

County: Alcona Township Name: Stearns Fraction: SW 1/4 Sec 14 T 14 N R 11 E Section Number: 20 Town Number: 1 N N/S Range Number: R 11 E/W

Distance and Direction From Road Intersection: 0.3 mi W. River View Dr. NW 1/4 Charles St.

Street Address & City of Well Location: \_\_\_\_\_

Locate with "X" in Section Below

**2 FORMATION DESCRIPTION**

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>Sand / Gravel</u>	<u>15</u>	<u>15</u>
<u>" Fine sand</u>	<u>10</u>	<u>25</u>
<u>Sand Course w/ Brn.</u>	<u>25</u>	<u>50</u>

**3 OWNER OF WELL**

Address: Pat Austin 939 Charles St. Merrill MI 49880

Address Same As Well Location?  Yes  No

**4 WELL DEPTH (completed)** 48 ft Date of Completion: 3-23-84

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Auger  Jetted

**6 USE**  Domestic  Type I Public  Type III Public  
 Irrigation  Type IIa Public  Heat pump  
 Test Well  Type IIb Public

**7 CASING** Diameter:  Steel  Threaded  Welded  
 Plastic  Height Above/Below Surface: 1 ft  
2 in to 4 1/2 ft depth Weight: 2.5 lbs/ft  
 Grouted Drill Hole Diameter: \_\_\_\_\_ Drive Shoe:  Yes  No

**8 SCREEN**  Not Installed  
 Type: C. Works Diameter: 1 1/2  
 Slot/Gauze: 50 Length: 4  
 Set between: 114 and 49 ft  
 FITTINGS:  K-Packer  Lead Packer  Bremer Check  
 Blank above screen \_\_\_\_\_ ft Other: \_\_\_\_\_

**9 STATIC WATER LEVEL** 9 ft below land surface  Flow

**10 PUMPING LEVEL** below land surface  
25 ft after 6 hrs pumping at 15 GPM  
 \_\_\_\_\_ ft after \_\_\_\_\_ hrs pumping at \_\_\_\_\_ GPM

**11 WELL HEAD COMPLETION**  Pitless adapter  12" above grade  
 Basement offset  Approved pit

**12 WELL GROUTED?**  No  Yes From \_\_\_\_\_ to \_\_\_\_\_ ft  
 Neat cement  Bentonite  Other: \_\_\_\_\_  
 No. of bags of cement: \_\_\_\_\_ Additives: \_\_\_\_\_

**13 Nearest source of possible contamination**  
 Type: Septic Distance: 80 ft Direction: N 6  
 Well disinfected upon completion?  Yes  No

**14 PUMP**  Not installed  Pump Installation Only  
 Manufacturer's name: F. L. W. Williams  
 Model number: C#105-5 HP: 1 1/2 Volts: 115  
 Length of Drop Pipe: 31 ft capacity: 10 GPM  
 TYPE:  Submersible  Jet  
 PRESSURE TANK  
 Manufacturer's name: Acme  
 Model number: 104 Capacity: 3.1 Gallons

RECEIVED  
 Mich. Dept. of Public Health  
 APR 18 1984  
 Bureau of Environmental and  
 Occupational Health - GWQS

USE A 2ND SHEET IF NEEDED

**15 Remarks** elevation source of data, etc

New Flower ADDED INFO BY DRILLER, ITEM NO. \_\_\_\_\_  
 CORRECTED BY \_\_\_\_\_  
 \*\* ADDITION BY \_\_\_\_\_  
 ELEVATION \_\_\_\_\_  
 DEPTH TO ROCK \_\_\_\_\_

**15 WATER WELL CONTRACTOR'S CERTIFICATION**  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief

Kevin Well Drill 0119  
 REGISTERED BUSINESS NAME REGISTRATION NO.  
 Address: 1492 10th St. Marquette  
 Signed: [Signature] Date: 4-7-84  
 AUTHORIZED REPRESENTATIVE

GEOLOGICAL SURVEY SAMPLE No.

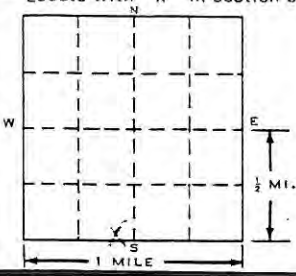
DEC 01 1980

**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

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<b>1 LOCATION OF WELL</b>		
County: <u>Alcona</u>	Township Name: <u>Alcona</u>	Fraction: <u>1/4</u>
Distance and Direction from Road Intersections		Section Number: <u>1</u> Town Number: <u>1</u> Range Number: <u>11</u>
Street address & City of Well Location: <u>7417 Alcona</u>		<b>3 OWNER OF WELL:</b> Address: <u>1207 Mason</u>
Sketch Map: 		<b>4 WELL DEPTH:</b> (completed) Date of Completion: <u>10/9/80</u> ft. <u>59</u>
		<b>5</b> <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>
		<b>6 USE:</b> <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>
		<b>7 CASING:</b> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below Surface _____ ft. <u>2</u> in. to <u>59</u> ft. Depth Weight _____ lbs./ft. _____ in. to _____ ft. Depth Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>2 FORMATION</b>	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
<u>manugranite</u>	<u>2'</u>	<u>18'</u>
<u>sand</u>	<u>2'</u>	<u>36'</u>
<u>manugranite</u>	<u>1'</u>	<u>59'</u>
		<b>8 SCREEN:</b> Type: <u>slotted</u> Dia.: <u>1 1/2"</u> Slot/Gauze _____ Length <u>30"</u> Set between <u>56</u> ft. and <u>57</u> ft. Fittings: <u>20400 90</u>
		<b>9 STATIC WATER LEVEL</b> <u>10</u> ft. below land surface
		<b>10 PUMPING LEVEL</b> _____ ft. after _____ hrs. pumping _____ g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.
		<b>11 WATER QUALITY</b> in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____ Other _____
		<b>12 WELL HEAD COMPLETION:</b> <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade
		<b>13 Well Grouted?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From _____ ft. to _____ ft.
		<b>14 Nearest Source of possible contamination</b> _____ feet _____ Direction _____ Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		<b>15 PUMP:</b> <input type="checkbox"/> Not installed Manufacturer's Name <u>LEAKS</u> Model Number <u>544 E</u> HP _____ Volts <u>110</u> Length of Drop Pipe <u>21</u> ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating
<b>16 Remarks, elevation, source of data, etc.</b> ADDED INFO. BY <u>DRILLER ITEM NO.</u> *CORRECTED BY <u>1701</u> **ADDITION BY <u>1701</u> ELEVATION _____ DEPTH TO ROCK _____		<b>17 WATER WELL CONTRACTOR'S CERTIFICATION:</b> This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief: <u>Wheatson Waterworks 0372</u> REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____ Address <u>9487 Pleasant Hill 49080</u> Signed <u>Daniel White</u> Date <u>10/9/80</u> AUTHORIZED REPRESENTATIVE

**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

SW

**1 LOCATION OF WELL**

County <i>Allegan</i>	Twp. <i>Huron Plains</i>	Fraction <i>1/4</i>	Section No. <i>20</i>	Town <i>N/W</i>	Range <i>11</i>
Distance And Direction from Road Intersection <i>1/2 mile E on Chapman dr 1/2 mile N on Sherman dr.</i>			OWNER No. <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>		
Street address & City of Well Location <i>1000 Glenview Dr. Plainville, Mich</i>					

**3 OWNER OF WELL:** *Herald Shumaker*  
Address: *501 West Allegan St. Sturgis, Mich*

<b>2 FORMATION</b>	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	<b>4 WELL DEPTH (completed)</b> Date of Completion
--------------------	----------------------	----------------------------	--

<i>Brown Clay - Stone &amp; Gravel</i>	21'	21'	42 ft. <i>Mar 21-68</i>
<i>Sand &amp; Fine Gravel</i>	21'	42'	

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Diam. Threaded  Welded  Height: Above/Below surface *1* ft.  
*2* in. to *39* ft. Depth Weight *3.65* lbs/ft.  
*2* in. to *39* ft. Depth Drive Shoe? Yes  No

**8 SCREEN:** Type: *Clayton mesh* Dia.: *1 1/4"*  
Slot/Gauze: *60* Length: *3'*  
Set between *39* ft. and *42* ft.  
Fittings: *1 1/4" Coupling*

**9 STATIC WATER LEVEL**  
*20* ft. below land surface

**10 PUMPING LEVEL** below land surface  
*35* ft. after *1* hrs. pumping *10* g.p.m.  
*35* ft. after *1* hrs. pumping *10* g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) *NOT KNOWN* Chlorides (Cl)  
Hardness *NOT KNOWN*

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 GROUTING:** Well Grouted?  Yes  No  
Material:  Neat Cement   
Depth: From  ft. to  ft.

**14 SANITARY:** Nearest Source of possible contamination  
*80* feet *NW* Direction *Septic* Type  
Well disinfected upon completion  Yes  No

**15 PUMP:** Manufacturer's Name *TAIT*  
Model Number *10E2* HP *1*  
Length of Drop Pipe *32* ft. capacity *10* G.P.M.  
Type:  Submersible   
 Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

ADDED INFO. BY DRILLER, ITEM NO.

CORRECTED BY: *[Signature]*

ADDITION BY:

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

*Babus Well Drilling* *0488*  
REGISTERED BUSINESS NAME REGISTRATION NO.

Address *308 Sherman St Sturgis Mich*

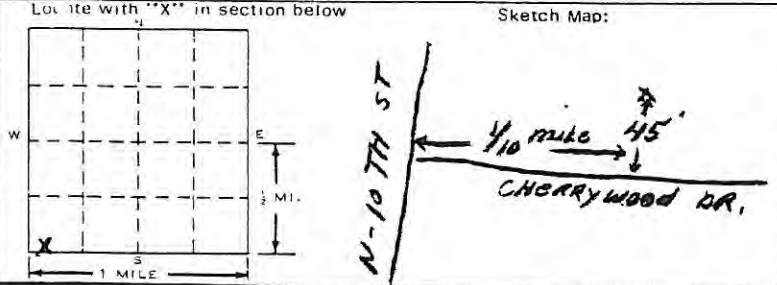
Signed *Pip Babus* Date *Mar 21-68*  
AUTHORIZED REPRESENTATIVE



NOV 21 1973

**WATER WELL RECORD**  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

<b>1 LOCATION OF WELL</b>											
County <i>Allegan</i>	Township Name <i>Ben Plains</i>	Fraction <i>SW 1/4 SW 1/4 SW 1/4</i>	Section Number <i>20</i>	Town Number <i>1 N 1/4</i>	Range Number <i>11 W.</i>						
Distance and Direction from Road Intersections <i>well 45' North of Cherrywood Dr 1/10 mile east of N-10th St. Plainwell 215 Cherrywood Dr Plainwell</i>						3 OWNER OF WELL: <i>Vern Lindstrom</i> Address <i>215 Cherrywood Drive Plainwell, Mich.</i>					
Locate with "X" in section below 						4 WELL DEPTH: (completed) Date of Completion <i>41' ft. 10-15-73</i>					
2 FORMATION						5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>					
						6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>					
THICKNESS OF STRATUM						7 CASING: Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Height: Above/Below Surface <i>1</i> ft. Weight <i>12.5</i> lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
						8 SCREEN: Type: <i>STRAINER</i> Dia.: <i>1 1/4</i> Slot/Gauge <i>10</i> Length <i>4'</i> Set between <i>38</i> ft. and <i>41</i> ft. Fittings: <i>1-1 1/4 coupling</i>					
DEPTH TO BOTTOM OF STRATUM						9 STATIC WATER LEVEL <i>22'</i> ft. below land surface					
						10 PUMPING LEVEL below land surface <i>35'</i> ft. after <i>2</i> hrs. pumping <i>10</i> g.p.m. <i>35'</i> ft. after <i>2</i> hrs. pumping <i>10</i> g.p.m.					
FORMATION						11 WATER QUALITY in Parts Per Million: Iron (Fe) <i>NOT KNOWN</i> Chlorides (Cl) _____ Hardness _____ Other _____					
						12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade					
THICKNESS OF STRATUM						13 Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Depth: From _____ ft. to _____ ft.					
						14 Nearest Source of possible contamination <i>75 feet NW</i> Direction <i>SEPTIC</i> Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
DEPTH TO BOTTOM OF STRATUM						15 PUMP: <input type="checkbox"/> Not installed Manufacturer's Name <i>Reputating</i> Model Number <i>7E2</i> HP <i>3/4</i> Volts <i>110</i> Length of Drop Pipe <i>29</i> ft. capacity <i>14</i> G.P.M. Type: <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Reciprocating					
						16 Remarks, elevation, source of data, etc. <i>large rocks 12 to 15' down. hard to penetrate.</i>					
FORMATION						17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <i>Rick Miller Well Drilling 1203</i> REGISTERED BUSINESS NAME REGISTRATION NO. Address <i>425 E. Hammond St. Stego</i> Signed <i>Rick Miller</i> Date <i>10-18-73</i> AUTHORIZED REPRESENTATIVE					
						ADDED INFO. BY DRILLER, <i>ST</i> CORRECTED BY <i>ST</i> ADDITION BY _____ USE A 2ND SHEET IF NEEDED					

**WATER WELL RECORD**

ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

1 LOCATION OF WELL									
County	Twp.	Fraction	Section No.	Town	Range	N/S	E/W		
Alcona	GRV CLAY	<del>20</del>	20	<del>1</del> N/S	<del>10</del>				
Distance And Direction from Road Intersections				OWNER No. _____		3 OWNER OF WELL: Planwell Platino & Amodizing Co. Address 323 Acorn St			
323 Acorn St Plainwell Mich Street address & City of Well Location						4 WELL DEPTH: (completed) Date of Completion 30 ft. 3/24/67			
2 FORMATION		THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	5 <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input checked="" type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>					
SAND		20	20	6 USE: <input type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input checked="" type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>					
Water Basin Sandstone		10	10	7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. 3 in. to _____ ft. Depth _____ ft. Height: Above/Below surface 12" ft. Weight _____ lbs/ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
				8 SCREEN: Type: 5/16 Dia.: 2" Slot/Gauze 60 Length 5' Set between 25 ft. and 30 ft. Fittings: 3" Check Valve					
				9 STATIC WATER LEVEL 20 ft. below land surface					
				10 PUMPING LEVEL below land surface 20 ft. after 1 hrs. pumping 30 g.p.m. _____ ft. after _____ hrs. pumping _____ g.p.m.					
				11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____					
				12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade					
				13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> Depth: From _____ ft. to _____ ft.					
				14 SANITARY: Nearest Source of possible contamination _____ feet _____ Direction <u>NO</u> Type Well disinfected upon completion <input type="checkbox"/> Yes <input type="checkbox"/> No					
				15 PUMP: Manufacturer's Name _____ Model Number _____ HP Length of Drop Pipe _____ ft. capacity _____ G.P.M. Type: <input type="checkbox"/> Submersible <input type="checkbox"/> <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating					
		30	30	16 Remarks, elevation, source of data, etc.  ADDED INFO. BY DRILLER. ITEM NO.  CORRECTED C					
				17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. <u>Fred McClason</u> 0231 REGISTERED BUSINESS NAME REGISTRATION NO. Address 990 E ALCONA ST Signed <u>F.M. Clason</u> Date 5/24/67 AUTHORIZED REPRESENTATIVE					

11/24 1990

WATER WELL RECORD  
ACT 294 PA 1965

MICHIGAN DEPARTMENT  
OF  
PUBLIC HEALTH

**1 LOCATION OF WELL**

County: ALLEGAN Township Name: GUN PLAIN Fraction: 1/4 1/4 1/4 Section Number: 20 Town Number: 71N N/S. Range Number: 11 E/W.

Distance And Direction from Road Intersections: 50 FT SOUTH OF DIVISION ST

Street address & City of Well Location: 1034 DIVISION ST PLAINWOOD

Locate with "X" in section below

**3 OWNER OF WELL:**  
JOHN LICHTER  
Address: 1034 SEN DIVISION ST PLAINWOOD

**4 WELL DEPTH:** (completed) Date of Completion  
29 ft. 4-26-80

**5**  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

**6 USE:**  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

**7 CASING:** Threaded  Welded  Height: Above/Below Surface 1 ft.  
Weight 375 lbs./ft. Drive Shoe? Yes  No

**2 FORMATION**

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND	5	5
Gravel + LITTLE CLAY	12	17
COARSE GRAVEL WITH CLAY	3	20
WATER SAND	9	29

**8 SCREEN:**  
Type: 121 Dia: 1 1/4 FT.  
Slot/Gauze 60 Length 3 FT.  
Set between 29 ft. and 26 ft.  
Fittings: BLENNER CHECK

**9 STATIC WATER LEVEL**  
14 ft. below land surface

**10 PUMPING LEVEL** below land surface  
15 ft. after 2 hrs. pumping 8 g.p.m.  
15 ft. after 1 hrs. pumping 8 g.p.m.

**11 WATER QUALITY** in Parts Per Million:  
Iron (Fe) \_\_\_\_\_ Chlorides (Cl) \_\_\_\_\_  
Hardness \_\_\_\_\_ Other \_\_\_\_\_

**12 WELL HEAD COMPLETION:**  In Approved Pit  
 Pitless Adapter  12" Above Grade

**13 Well Grouted?**  Yes  No  
 Neat Cement  Bentonite  \_\_\_\_\_  
Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**14 Nearest Source of possible contamination**  
62 feet SOUTH Direction SOUTH Type \_\_\_\_\_  
Well disinfected upon completion  Yes  No

**15 PUMP:**  Not installed  
Manufacturer's Name \_\_\_\_\_  
Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
Type:  Submersible  Jet  Reciprocating

**16 Remarks, elevation, source of data, etc.**

ADDED INFO BY DRILLER, ITEM NO:  
\*CORRECTED BY  
\*\*ADDITION BY ELEVATION DEPTH TO ROCK

**17 WATER WELL CONTRACTOR'S CERTIFICATION:**  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
NEX BROTHERS 1661  
REGISTERED BUSINESS NAME REGISTRATION NO.  
Address 560 19 ST OTSEGO MICH  
Signed [Signature] Date 4-26-80  
AUTHORIZED REPRESENTATIVE

**Groundwater Flow Rate Calculations (December 2021 and June 2022)**

Equation:

$$V = Ki/n$$

where:

V = groundwater velocity

K = conductivity (4.439 gpd/ft<sup>2</sup> - previously established in Section 18 of license application)

i = hydraulic gradient ( $\Delta$  water level [ft.]/ $\Delta$  distance [ft.])

n = porosity (35% - Morris & Johnson, 1967)

---

$\Delta$  water level = A-3 water level (ft.) minus A-6 water level (ft.)

**12/2/2021**

$$717.81 - 714.92 = 2.89 \text{ ft.}$$

**6/2/2022**

$$718.68 - 716.12 = 2.56 \text{ ft.}$$

$\Delta$  distance (A-3 and A-6) = 356 ft.

**12/2/2021**

$$i = 2.89/356 = 0.008$$

**6/2/2022**

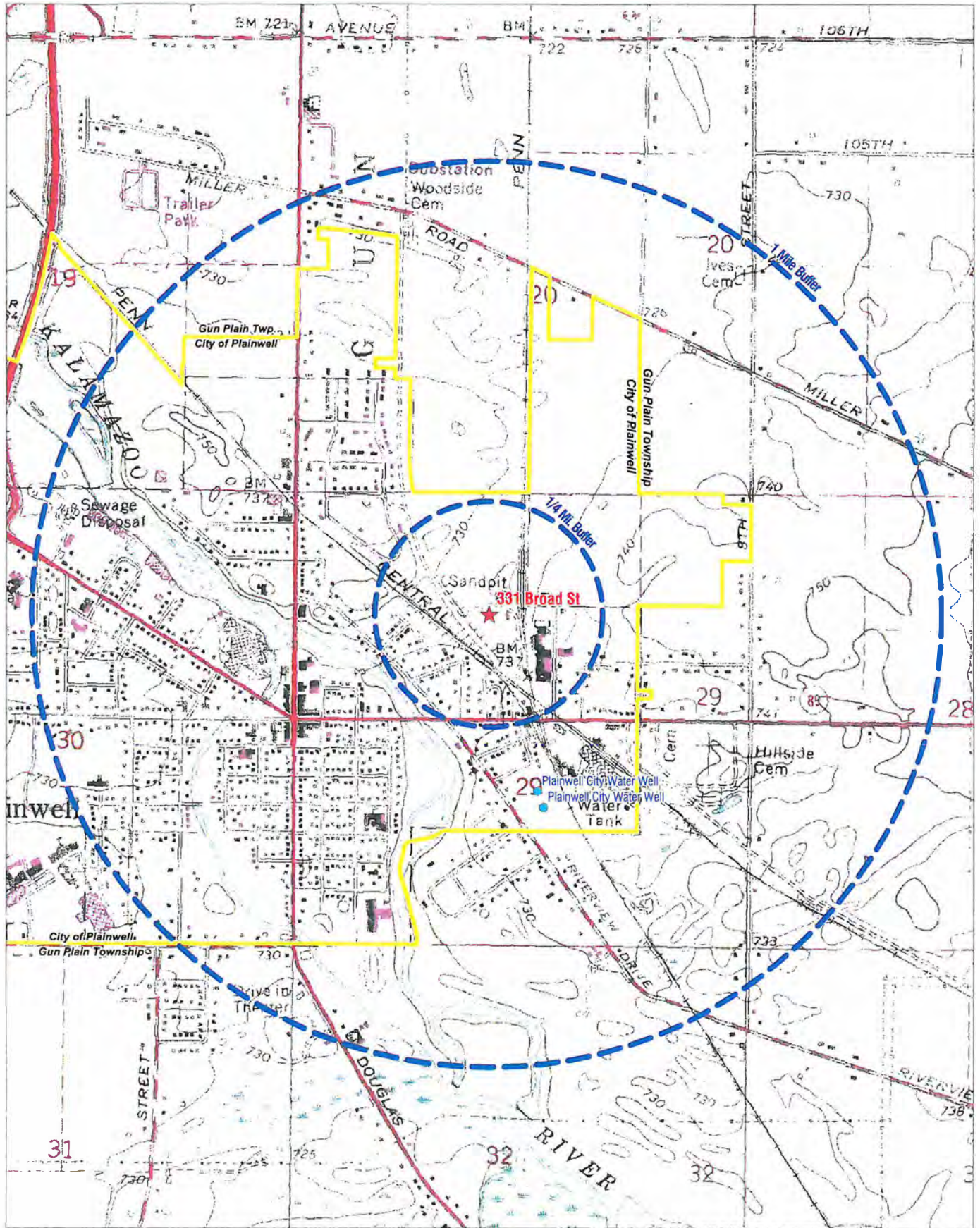
$$i = 2.56/356 = 0.007$$

$$V = (4.439 * 0.008) / 0.35$$

$$\text{Groundwater velocity} = 0.101 \text{ gpd/ft}^2$$

$$V = (4.439 * 0.007) / 0.35$$

$$\text{Groundwater velocity} = 0.089 \text{ gpd/ft}^2$$



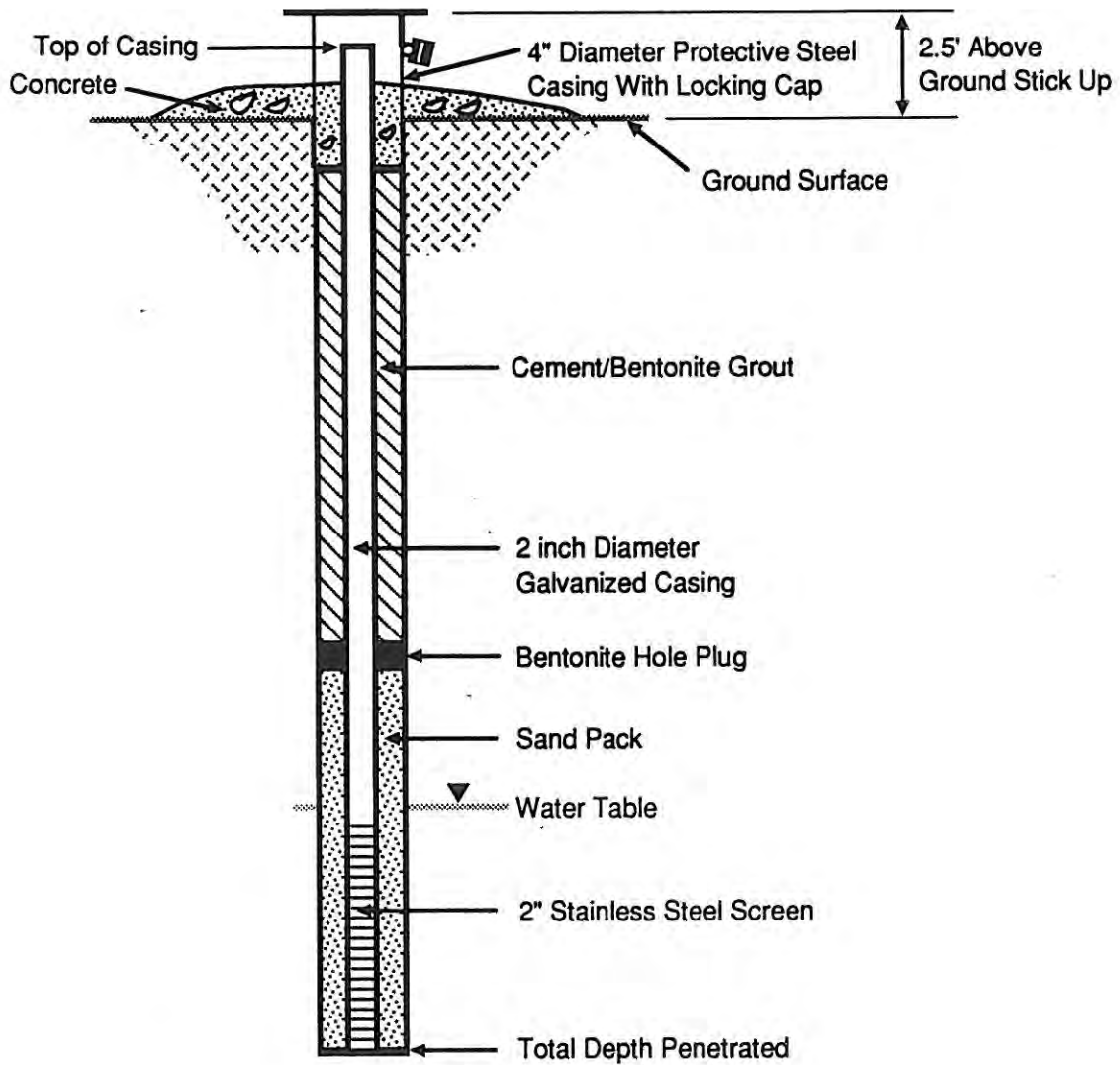
**331 Broad St, Plainwell, Michigan  
Including 1-Mile Buffer Around Site**

Allegan County Land Information Services assumes no liability for the conclusions drawn from the use of this data

1 inch equals = 1,500 feet  
Map Printed: 8/14/2008



### Schematic of Monitoring Well With Protective Casing Above Grade



**Schematic of Standard  
Monitoring Well Construction  
for a Proposed Monitoring Well**

BORING A-1  
Job No. 380  
Sheet 1 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client                   A-1 Disposal Co., Inc.  
Project                 Site of A-1 Disposal Co., Inc.  
Site                     Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring        July 9, 1980  
Driller                 A-1 Disposal Co., Inc.  
Drillers:             Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater         Driller noted groundwater at about 10 ft. depth while drilling.  
Information           WCI at 9.8 ft. depth  
Piezometer installed, see note Page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
0					<u>Ground Surface (Elev. 728.7)</u>
2	2	S-1	AS(SP)		fine sand, trace medium, no gravel, dark brown, moist, trace organic material to 3 ft.
7	7	S-2	AS(SP)		fine to medium sand, some coarse, moist
12	12	S-3	AS(SW)		<u>FINE TO COARSE SAND, trace silt, trace fine gravel, brown, saturated below about 10 ft.</u>
17	17	S-4	AS(SW)		
22	22	S-5	AS(CT)	(21)	<u>SILTY CLAY, trace fine to coarse sand, gray, moist</u>

Solid-stem auger boring

BORING A-1  
Job No. 380  
Sheet 2 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
Project Site of A-1 Disposal Co., Inc.  
Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring July 9, 1980  
Driller A-1 Disposal Co., Inc.  
Drillers: Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater Information See Sheet 1

## LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
------------	-------------------	---------------	--------------------------	------------	-------------------------



Continued from Sheet 1  
SILTY CLAY, trace fine to coarse sand, gray, moist

27 S-6 AS(CL) (27)

Bottom of Boring ↗

Note: Piezometer M-1  
20 ft. of 2 in. steel pipe  
4 ft. of 1 $\frac{1}{2}$ " well point, 3 ft. screen (Midwest, brass-60 gauze)  
3 ft. - 3 in. stick-up  
Screen set from 18 ft. to 21 ft.  
Piezometer was sealed with one bag of dry bentonite



BORING A-2  
Job No. 380  
Sheet 1 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client                   A-1 Disposal Co., Inc.  
Project                 Site of A-1 Disposal Co., Inc.  
Site                     Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring        July 9, 1980  
Driller                 A-1 Disposal Co., Inc.  
Drillers:             Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater         Driller noted water level at about 10 ft. depth while drilling.  
Information           WCI at 9.5 ft. depth.  
Piezometer installed, see note page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
0					<u>Ground Surface (Elev. 728.2)</u>
	2	S-1	AS(SP)		fine sand, trace medium, no gravel, dark brown, moist, trace organic material to 3 ft.
			Solid-stem auger boring		
	7	S-2	AS(SP)		fine to medium sand, trace coarse, no gravel, moist
	12	S-3	AS(SW)		<u>FINE TO COARSE SAND, trace silt, trace fine gravel, brown, saturated below about 9.5 ft.</u>
	17	S-4	AS(SW)		
				(19)	<u>SILTY CLAY, trace fine to coarse sand, gray, moist</u>
	22	S-5	AS(CL)	(22)	<u>Bottom of Boring</u> ↗
	25				

BORING A-2  
 Job No. 380  
 Sheet 2 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
 Project Site of A-1 Disposal Co., Inc.  
 Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring July 9, 1980  
 Driller A-1 Disposal Co., Inc.  
 Drillers: Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater Information See Sheet 1

## LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
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Continued from Sheet 1

Note: Piezometer M-2  
 20 ft. of 2 in. steel pipe  
 4 ft. of 1 $\frac{1}{2}$ " well point (Midwest, brass-60 gauze)  
 3 ft. - 0 in. stick-up  
 Screen set from 17 ft. to 21 ft.  
 Piezometer was sealed with one bag of dry bentonite

BORING A-3  
Job No. 380  
Sheet 1 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
Project Site of A-1 Disposal Co., Inc.  
Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring July 9, 1980  
Driller A-1 Disposal Co., Inc.  
Drillers: Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater Information Driller noted water level at about 10 ft. depth while drilling.  
WCI at 9.5 ft. depth.  
Piezometer installed, see note page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
0					<u>Ground Surface (Elev. 728.1)</u>
	2	S-1	AS(SP)		fine sand, trace medium, no gravel, moist
			Solid-stem auger boring		
	7	S-2	AS(SP)		fine to medium sand, trace coarse, no gravel, moist
	12	S-3	AS(SW)		
					<u>FINE TO COARSE SAND, trace silt, trace fine gravel, brown, saturated below about 9.5 ft.</u>
	17	S-4	AS(SW)		
	22	S-5	AS(SW)	(22)	Bottom of boring
	25				

BORING A-3  
Job No. 380  
Sheet 2 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client                    A-1 Disposal Co., Inc.  
Project                  Site of A-1 Disposal Co., Inc.  
Site                      Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

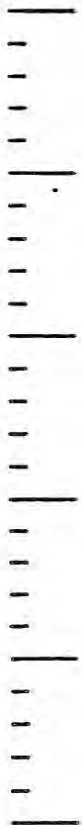
Date of Boring        July 9, 1980  
Driller                 A-1 Disposal Co., Inc.  
                            Drillers: Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater  
Information            See Sheet 1

## LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
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Continued from Sheet 1



Note: Piezometer M-3-  
20 ft. of 2 in. steel pipe  
4 ft. of 1 $\frac{1}{2}$ " well point (Midwest, brass-60 gauze)  
2 ft. - 4 in. stick-up  
Screen set from 18 ft. to 22 ft.  
Piezometer was sealed with one bag of dry bentonite

BORING A-4  
Job No. 380  
Sheet 1 of 2

## RECORD OF SUBSURFACE INVESTIGATION

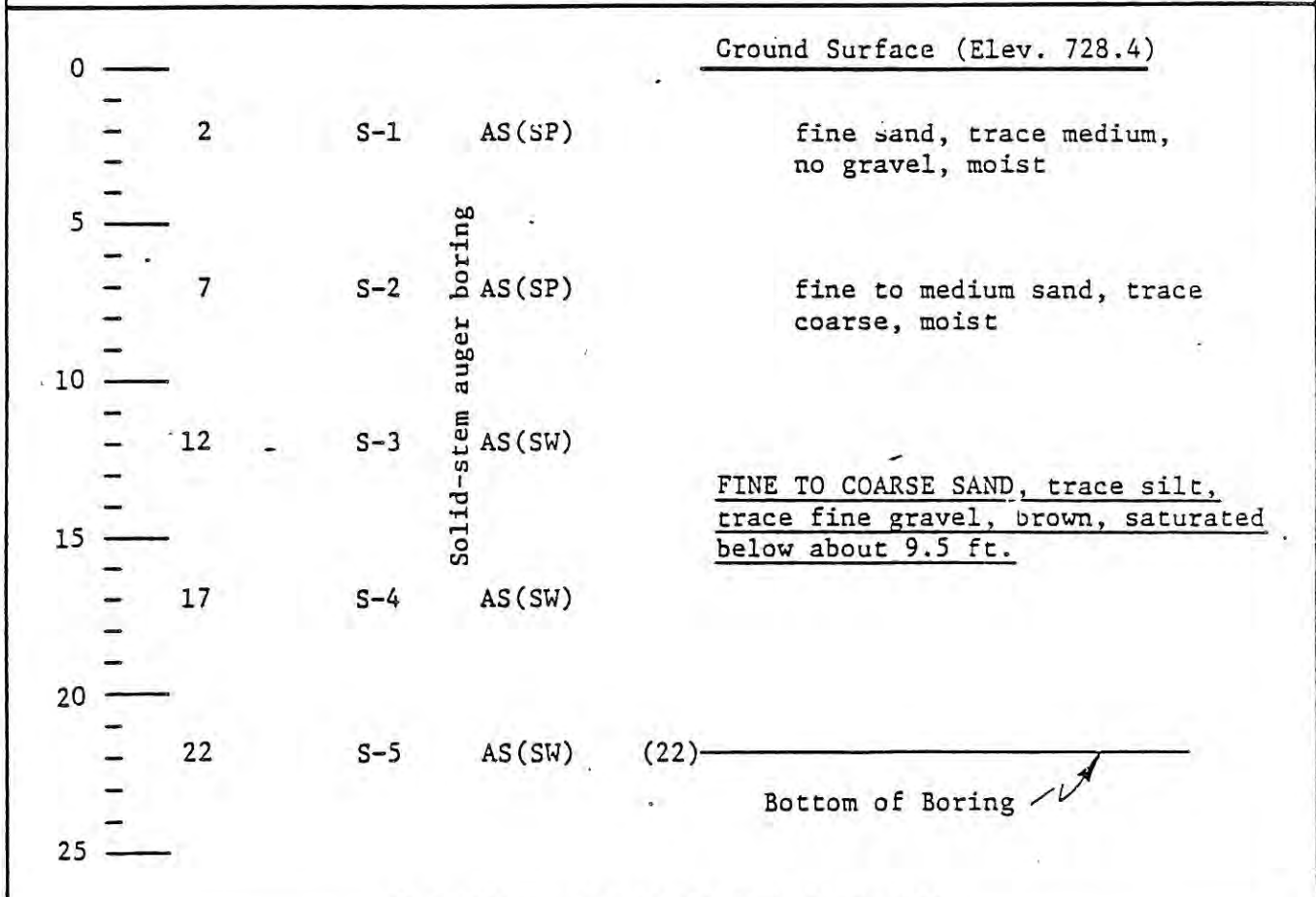
Client           A-1 Disposal Co., Inc.  
Project         Site of A-1 Disposal Co., Inc.  
Site             Part of E½, NW¼, Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring   July 9, 1980  
Driller          A-1 Disposal Co., Inc.  
Drillers:        Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater     Driller noted water level at about 10 ft. depth while drilling.  
Information      WCI at 9.5 ft. depth.  
Piezometer installed, see note page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
---------------	-------------------------	------------------	--------------------------------------	---------------	----------------------------



BORING A-4  
 Job No. 380  
 Sheet 2 of 2

RECORD OF SUBSURFACE INVESTIGATION

Client                    A-1 Disposal Co., Inc.  
 Project                  Site of A-1 Disposal Co., Inc.  
 Site                        Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring          July 9, 1980  
 Driller                    A-1 Disposal Co., Inc.  
                               Drillers: Al Blancher, Don Shumaker, and Norm Jacobs

Groundwater            See Sheet 1  
 Information

LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
---------------	-------------------------	------------------	--------------------------------------	---------------	----------------------------

Continued from Sheet 1



Note: Piezometer M-4  
 20 ft. of 2 in. steel pipe  
 4 ft. of 1 $\frac{1}{4}$ " well point, 3 ft. screen (Midwest, brass-60 gauze)  
 3 ft. - 0 in. stick-up  
 Screen set from 18 ft. to 21 ft.  
 Piezometer was sealed with one bag of dry bentonite

BORING A-5  
Job No. 280  
Sheet 1 of 2

## RECORD OF SUBSURFACE INVESTIGATION

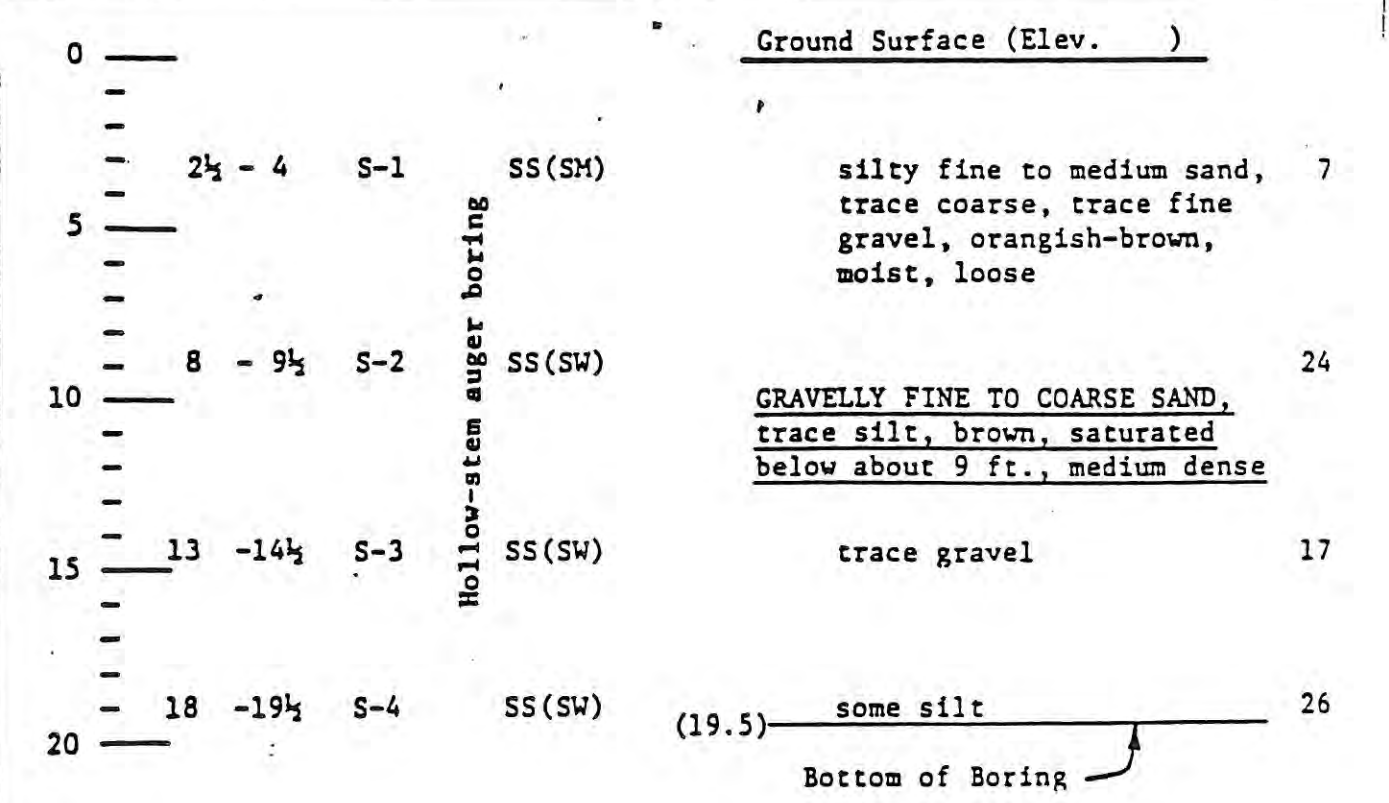
Client            A-1 Disposal Co., Inc.  
Project          Site of A-1 Disposal Co., Inc.  
Site              Part of E $\frac{1}{2}$ , NW $\frac{1}{2}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring   November 21, 1980  
Driller            A-1 Disposal Co., Inc.  
                      Driller: Ted Snyder

Groundwater    Water level at 9.4 ft. depth, 2 $\frac{1}{2}$  hours after boring.  
Information      Water level at 9.3 ft. depth, 3 days after boring.  
                      Piezometer installed, see note page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	N blows/ft.
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BORING A-5  
 Job No. 280  
 Sheet 2 of 2

### RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
 Project Site of A-1 Disposal Co., Inc.  
 Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 21, 1980  
 Driller A-1 Disposal Co., Inc.  
 Driller: Ted Snyder

Groundwater  
 Information See Sheet 1

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
---------------	-------------------------	------------------	--------------------------------------	---------------	----------------------------

Continued from Sheet 1

Note: Piezometer M-5  
 15 $\frac{1}{2}$  ft. of 2 in. galvanized steel pipe  
 3 ft. of 1 $\frac{1}{2}$  in. well point, 2 $\frac{1}{2}$  ft. screen (60 gauze)  
 2 ft. - 0 in. stick-up  
 Screen set from 14 ft. to 16 $\frac{1}{2}$  ft.  
 Piezometer was sealed with one bag of dry bentonite and sand  
 and mounded



## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
Project Site of A-1 Disposal Co., Inc.  
Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 24, 1980  
Driller A-1 Disposal Co., Inc.  
Driller: Ted Snyder

Groundwater Information Water level at 10.6 ft. depth after boring.  
Piezometer installed, see note page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	N blows/ft.
0					<u>Ground Surface (Elev. )</u>	
	3 - 4 $\frac{1}{2}$	S-1	SS(SP)		fine to medium sand, trace coarse, trace fine gravel, trace silt, brown, moist, medium dense to about 11 ft.	13
5						
	8 - 9 $\frac{1}{2}$	S-2	SS(SP)		<u>FINE TO COARSE SAND, trace silt, trace gravel, gray, saturated below about 10 ft., medium dense</u>	31
10						
	13 - 14 $\frac{1}{2}$	S-3	SS(SW)			26
15						
	18 - 19 $\frac{1}{2}$	S-4	SS(SW)			20
20						
	23 - 24 $\frac{1}{2}$	S-5	SS(CL)		<u>SILTY CLAY, trace fine to coarse sand, trace gravel, gray, moist, hard</u>	62
25						

Hollow-stem auger boring

(21)

\*q<sub>p</sub>=4.5+

BORING A-6  
Job No. 280  
Sheet 2 of 2

## RECORD OF SUBSURFACE INVESTIGATION

**Client** A-1 Disposal Co., Inc.  
**Project** Site of A-1 Disposal Co., Inc.  
**Site** Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

**Date of Boring** November 24, 1980  
**Driller** A-1 Disposal Co., Inc.  
Driller: Ted Snyder

**Groundwater Information** See Sheet 1

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	N blows/ft.
Continued from Sheet 1						
25						
	28-29 $\frac{1}{2}$	S-6	SS(CL)			89 q <sub>p</sub> =4.5+
30					<u>SILTY CLAY, trace fine to coarse sand, trace gravel, gray, moist, hard</u>	
	33-34 $\frac{1}{2}$	S-7	SS(CL)	(34.5)		69 q <sub>p</sub> =4.5+
35					Bottom of Boring	

**Note:**

Piezometer M-6  
20 $\frac{1}{2}$  ft. of 2-inch galvanized steel pipe  
3 ft. of 1 $\frac{1}{2}$ -inch well point, 2 $\frac{1}{2}$  ft. screen (60 gauze)  
3'-0" stick-up  
screen set from 18 ft. to 20 $\frac{1}{2}$  ft.  
Piezometer was sealed with one bag of dry bentonite and sand  
and mounded.

BORING A-7  
Job No. 280  
Sheet 1 of 2

**RECORD OF SUBSURFACE INVESTIGATION**

Client                    A-1 Disposal Co., Inc.  
Project                  Site of A-1 Disposal Co., Inc.  
Site                      Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring        November 21, 1980  
Driller                 A-1 Disposal Co., Inc.  
                             Driller: Ted Snyder

Groundwater         Water level at 11.8 ft. depth after boring.  
Information            Water level at 10.8 ft. depth 3 days after boring.  
                             Piezometer installed, see note page 2.

**LOG**

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	<u>N</u> blows/ft.
0					<u>Ground Surface (Elev. )</u>	
	3 - 4 $\frac{1}{2}$	S-1	Hollow-stem auger boring		silty fine to medium sand, 5 trace coarse, trace gravel, orangish-brown, moist, loose	
5						
	8 - 9 $\frac{1}{2}$	S-2			fine to medium sand, 27 some coarse, trace gravel, brown, moist, medium dense	
10						
	13-14 $\frac{1}{2}$	S-3			<u>FINE TO COARSE SAND, trace gravel, trace silt, gray, saturated below about 11 ft., medium dense</u>	17
15						
	18-19 $\frac{1}{2}$	S-4		(19.5)	gravelly	15
20					Bottom of Boring	

BORING A-7  
 Job No. 280  
 Sheet 2 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
 Project Site of A-1 Disposal Co., Inc.  
 Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 21, 1980  
 Driller A-1 Disposal Co., Inc.  
 Driller: Ted Snyder

Groundwater Information See Sheet 1

## LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
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Continued from Sheet 1

Note: Piezometer M-7  
 15 $\frac{1}{2}$  ft. of 2 in. galvanized steel pipe  
 3 ft. of 1 $\frac{1}{2}$  in. well point, 2 $\frac{1}{2}$  ft. screen (60 gauze)  
 1 ft. - 6 in. stick-up  
 screen set from 15 ft. to 17 $\frac{1}{2}$  ft.  
 Piezometer was sealed with one bag of dry bentonite and sand  
 and mounded.

BORING A-8  
Job No. 280  
Sheet 1 of 2

## RECORD OF SUBSURFACE INVESTIGATION

Client           A-1 Disposal Co., Inc.  
Project          Site of A-1 Disposal Co., Inc.  
Site             Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring   November 24, 1980  
Driller          A-1 Disposal Co., Inc.  
                  Driller: Ted Snyder

Groundwater    Water level at 11.9 ft. depth after boring.  
Information     Piezometer installed, see note page 2.

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	N blows/ft.
0					<u>Ground Surface (Elev. )</u>	
5	3 - 4 $\frac{1}{2}$	S-1	SS(SP)		fine to medium sand, trace coarse, trace gravel, trace silt, brown, moist, medium dense to about 9 ft.	12
10	8 - 9 $\frac{1}{2}$	S-2	SS(SP)		<u>FINE TO COARSE SAND, trace gravel, trace silt, gray, saturated below about 11 ft., medium dense to dense</u>	14
15	13-14 $\frac{1}{2}$	S-3	SS(SW)			27
20	18-19 $\frac{1}{2}$	S-4	SS(SW)	(19) (19.5)	dense <u>SILTY CLAY, trace fine to coarse sand, trace gravel, brown, moist</u>	39
					Bottom of Boring	

## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
 Project Site of A-1 Disposal Co., Inc.  
 Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 24, 1980  
 Driller A-1 Disposal Co., Inc.  
 Driller: Ted Snyder

Groundwater Information See Sheet 1

## LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
---------------	-------------------------	------------------	--------------------------------------	---------------	----------------------------

Continued from sheet 1

Note: Piezometer M-8  
 20 $\frac{1}{2}$  ft. of 2 in. galvanized steel pipe  
 3 ft. of 1 $\frac{1}{2}$  in. well point, 2 $\frac{1}{2}$  ft. screen (60 gauze)  
 5 ft. - 0 in. stick-up  
 Screen set from 16 ft. to 18 $\frac{1}{2}$  ft.  
 Piezometer was sealed with one bag of dry bentonite and sand  
 and mounded.

WELL # A-9

RECORD NOT AVAILABLE AT THIS TIME

WELL # A-10

RECORD NOT AVAILABLE AT THIS TIME



WELL # A-11

RECORD NOT AVAILABLE AT THIS TIME

WELL # A-12

RECORD NOT AVAILABLE AT THIS TIME



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KUMAR MALHOTRA & ASSOCIATES, INC.

3000 East Belt Line N.E.
Grand Rapids, Michigan 49505
Telephone (616) 361-5092

Project No. 1031
Well File No.
Owner's Well No. A-13
Client KMA:A-1 Disposal
Date Sept 5, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain
Distances NW 1/4 NE 1/4 NW 1/4 Sec. 29 T 1 N R 11 W

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan
CONTRACTOR Address

3. ELEVATION of top of well: 738.49 ft. (above, the level of: mean sea level Rept'd.)

4. TYPE of well: Monitoring Date Constructed Driller

5. DEPTH of well: 29.6 ft. meas Depth to bedrock ft. Formation

6. DIAMETER: 2 in.
CASING: kind Galv. ; size 2 ; length 29.15 ft. between +2.58 & 26.57 ft.
kind ; size ; length ft. between & ft.
SCREEN: make and material ; length 3 ft.; Dia 2 in.
size of openings in.; depth to (packer or top of slots) ft.

7. WATER LEVEL: 24.14 ft. ( below) land surface Meas'd. Sept 4, 1984

8. PUMP: make and serial number Cap. gpm @ ft. (head)
power; motor h.p.; length of column & shaft ft. dia. of column & shaft in.
bowls ft.; stages; tail pipe ft.; strainer; lubrication

9. YIELD: original yield; pumped gpm for hours with drawdown

10. LOG and REMARKS:

- 0 - 0.5' Topsoil
0.5 - 1.5' Sand, loamy, gravelly
1.5 - 24.0' Gravel, fine to coarse, sandy
24.0- 43.5' Gravel, fine to coarse, sandy, waterbering
43.5- 56.0' Sand, fine to very fine, silty, gray
56.0- 57.0' Clay, sandy, gray
57.0- 58.0' Clay, gray



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Grand Rapids, Michigan 49505  
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Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-13A  
Client KMA:A-1 Disposal  
Date Sept 5, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: allegan Township: Gun Plain  
Distances \_\_\_\_\_, NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 29 T. 1 R. 11 W
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR Stovall Well Drilling Address Grand Rapids, Michigan
3. ELEVATION of top of well: 737.86 ft. (above, \_\_\_\_\_ the level of: mean sea level, Rept'd.)
4. TYPE of well: Monitoring Date Constructed 9/5/84 Driller Jack R
5. DEPTH of well: 36.98 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
CASING: kind Galv. ; size 2 ; length 36.0 ft. between +2.02 & 33.98 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 24.61 ft. below) land surface Meas'd. Sept 24, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper 3 feet of hole plugged with natural soils and bentonite.
 

0	-	0.5'	Topsoil
0.5	-	1.5'	Sand, loamy, gravelly
1.5	-	24.0'	Gravel, fine to coarse, sandy
24.0	-	43.5'	Gravel, fine to coarse, sandy, waterbearing
43.5	-	56.0'	Sand, fine to very fine, silty, gray
56.0	-	57.0'	Clay, sandy, gray
57.0	-	58.0	Clay, gray



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# Attachment B3-8

Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-13B  
Client KAM:A-1 Disposal  
Date Sept 5, 1984

## RECORD OF WELL

1. LOCATION: State Michigan County Allegan Township Gun Plain  
 Distances \_\_\_\_\_, NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 29 T. 1 <sup>N</sup> R. 11 W
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
 CONTRACTOR Stovall Well Drilling Address Grand Rapids, Michigan
3. ELEVATION of top of well: 738.15 ft. (above, the level of: mean sea level ( Rep'd.))
4. TYPE of well: Monitoring Date Constructed 9/5/84 Driller Jack R
5. DEPTH of well: 45.58 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
 CASING: kind Galv. ; size 2 ; length 45.0 ft. between +2.42 & 42.58 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia 2 in.  
 size of openings 7 slot depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 23.98 ft. ( below ) land surface <sup>Meas'd.</sup> Sept 24, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Plugged the upper 3 feet of the hole with bentonite and natural soils.

0	-	0.5'	Topsoil.
0.5	-	1.5'	Sand, loamy, gravelly
1.5	-	24.0'	Gravel, fine to coarse, sandy
24.0	-	43.5'	Gravel, fine to coarse, sandy, waterbearing
43.5	-	56.0'	Sand, fine to very fine, silty, gray
56.0	-	57.0'	Clay, sandy, gray
57.0	-	58.0'	Clay, gray

WELL # A-14

RECORD NOT AVAILABLE AT THIS TIME



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Project No. 1031  
 Well File No. \_\_\_\_\_  
 Owner's Well No. A-15  
 Client KMA:A-1 Disposal  
 Date Oct. 23, 1984

KUMAR MALHOTRA & ASSOCIATES, INC.

3000 East Belt Line N.E.  
 Grand Rapids, Michigan 49505  
 Telephone (616) 361-5092

## RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
 Distances Approx. 870' N & 700' , SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 29 T. 1 N R. 11 W  
W of SE fence corner around the active work area
2. OWNER A-1 Disposal Corp Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp Address Plainwell, Michigan
3. ELEVATION of top of well: 726.86 ft. (above, \_\_\_\_\_) the level of mean sea level (Est'd. or Rept'd.)
4. TYPE of well: Monitoring Date Constructed \_\_\_\_\_ Driller Norm
5. DEPTH of well: 18.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
 CASING: kind Galv. ; size 2" ; length 17.8 ft. between +2.8 & 15.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material \_\_\_\_\_ ; length \_\_\_\_\_ ft.; Dia. \_\_\_\_\_ in.  
 size of openings \_\_\_\_\_ in.; depth to (packer or top of slots) \_\_\_\_\_ ft.  
 Meas'd.
7. WATER LEVEL: 14.79 ft. ( \_\_\_\_\_ below) top of casing \_\_\_\_\_ Sept 24, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap. \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper 3' of borehole backfilled with natural soils and bentonite.

0	-	0.3'	Topsoil
0.3	-	5.0'	Sand, red, fine, loamy
5.0	-	8.0'	Sand, fine to coarse, occ. fine stone
8.0	-	10.0'	Sand, fine to coarse and gravel, fine to coarse
10.0	-	13.0'	Sand, fine to coarse and gravel, fine to med.
13.0	-	25.0'	Sand, fine to coarse and gravel. fine to med, waterbearing
25.0	-	31.0'	Sand, fine to med., gravelly, fine, silty, waterbearing
31.0	-	34.0'	Clay, gray



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Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-15A  
Client KMA: A-1 Disposal  
Date Oct. 23, 1984

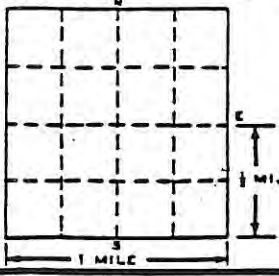
RECORD OF WELL

1. LOCATION: State Michigan County Allegan Township Gun Plain  
Distances Approx. 15' east of ; SE 1/4 NE 1/4 NW 1/4 Sec. 29 T. 1 N. R. 11 W  
MW# 15
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 726.25 ft. (above, the level of mean sea level) Rept'd.)
4. TYPE of well: Monitoring Date Constructed 10/22/84 Driller Norm & John
5. DEPTH of well: 30.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
CASING: kind Galv ; size 2" ; length 28.0 ft. between +2.0 & 26.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 4 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.  
Meas'd.
7. WATER LEVEL: 13.0 ft. below Ground Oct 22, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper portion of borehole filled with betonite and natural  

0	-	0.3'	<sup>soils</sup> Topsoil
0.3	-	5.0'	Sand, red, fine, loamy
5.0	-	8.0'	Sand, fine to coarse, occ. fine stone
8.0	-	10.0'	Sand, fine to coarse and gravel, fine to coarse
10.0	-	13.0'	Sand, fine to coarse and gravel, fine to med
13.0	-	25.0'	Sand, fine to coarse and gravel, fine to med. waterbearing
25.0	-	31.0'	Sand, fine to coarse, gravelly, fine, silty
31.0	-	34.0'	Clay, gray



1 LOCATION OF WELL  
 County **ALLEGAN** Township Name **GUN PLAIN** Fraction **1/4 1/4** Section Number **1** Town Number **N/S.** Range Number **E/W.**


Distance And Direction from Road Intersections  
**A-1 DISPOSAL SERVICE**  
 Street address & City of Well Location  
 Locate with "X" in section below Sketch Map:  


3 OWNER OF WELL:  
 Address **A-1 disposal**

4 WELL DEPTH: (completed) Date of Completion  
 ft.  
 5  Cable tool  Rotary  Driven  Dug  
 Hollow rod  Jetted  Bored

6 USE:  Domestic  Public Supply  Industry  
 Irrigation  Air Conditioning  Commercial  
 Test Well

7 CASING: Threaded  Welded  Height: Above/Below  
 Diam. Surface \_\_\_\_\_ ft.  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. Depth Weight \_\_\_\_\_ lbs./ft.  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. Depth Drive Shoe? Yes  No

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
top soul sandy	6	6
gravel and verylarge rocks	12	18
clay	38 ft	56
water sand <i>seen 56-60</i>	4 ft.	60
note- THERE ARE <sup>2</sup> @ WELLS		
BOTHE HAVE SAME INFO.		
<b>TEST WELLS</b>		
<b>#16 &amp; #17 (A-16, A-17)</b>		
		

8 SCREEN:  
 Type: **S/S 4 ft.** Dis.: **1 1/2**  
 Slot/Gauze **10 slot** Length **4 ft.**  
 Set between **56** ft. and **60** ft.  
 Fittings:

9 STATIC WATER LEVEL  
**8 ft.** ft. below land surface

10 PUMPING LEVEL below land surface  
**8 ft.** ft. after **2** hrs. pumping **10** G.D.M.  
**SAME** ft. after \_\_\_ hrs. pumping \_\_\_ G.D.M.

11 WATER QUALITY in Parts Per Million:  
 Iron (Fe) \_\_\_\_\_ Chlorides (Cl) \_\_\_\_\_  
 Hardness \_\_\_\_\_ Other \_\_\_\_\_

12 WELL HEAD COMPLETION:  In Approved Pit  
 Pitless Adapter  12" Above Grade

13 Well Grouted?  Yes  No  
 Neat Cement  Bentonite  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

14 Nearest Source of possible contamination  
 \_\_\_\_\_ feet Direction \_\_\_\_\_ Type \_\_\_\_\_  
 Well disinfected upon completion  Yes  No

15 PUMP:  Not installed  
 Manufacturer's Name \_\_\_\_\_  
 Model Number \_\_\_\_\_ HP \_\_\_\_\_ Volts \_\_\_\_\_  
 Length of Drop Pipe \_\_\_\_\_ ft. capacity \_\_\_\_\_ G.P.M.  
 Type:  Submersible  Jet  Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

REGISTERED BUSINESS NAME \_\_\_\_\_ REGISTRATION NO. \_\_\_\_\_  
 Address \_\_\_\_\_  
 Signed \_\_\_\_\_ Date \_\_\_\_\_  
 AUTHORIZED REPRESENTATIVE



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3000 East Belt Line N.E.  
Grand Rapids, Michigan 49505  
Telephone (616) 361-5092

Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-18  
Client KMA:A-1 Disposal  
Date Sept 7, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances \_\_\_\_\_, NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T 1 N R 11 W
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR Stovall Well Drilling Address Grand Rapids, Michigan
3. ELEVATION of top of well: 737.63 ft. (above, the level of: mean sea level Rept'd.)
4. TYPE of well: Monitoring Date Constructed 9/7/85 Driller Jack R
5. DEPTH of well: 33.17 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
CASING: kind Galv. ; size 2 ; length 32.0 ft. between +1.83 & 30.17 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 24.25 ft. ( below ) land surface Meas'd. Sept 24, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper 3 feet of hole plugged with bentonite and natural soil.  

0	-	0.5'	Topsoil
0.5	-	5.0'	Sand, fine to very fine, light brown
5.0	-	6.5'	Sand, fine, clay binder, gravelly, brown
6.5	-	18.0'	Sand, fine and gravel, fine to medium, brown
18.0	-	25.0'	Sand, fine to coarse and gravel, fine to medium
25.0	-	43.5'	Sand, fine to coarse, clean, waterbearing
43.5	-	46.0'	Stones
46.0	-	50.0'	Clay, gray, slightly sandy, occ. stone, ver hard



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Project No. \_\_\_\_\_  
Well File No. \_\_\_\_\_  
Owner's Well No. A-18A  
Client KMA:A-1 Disposal  
Date Oct 17, 1984

RECORD OF WELL

- LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances: Approx. 12ft. east of , NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T 1 R 11 W  
NW# 18
- OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp Address Plainwell, Michigan
- ELEVATION of top of well: 737.82 ft. (above, ) the level of mean sea level (Rept'd.)
- TYPE of well: Monitoring Date Constructed 10/24/84 Driller John&Norm
- DEPTH of well: 40.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
- DIAMETER: 2 in.  
CASING: kind Galv ; size 2 " ; length 39.0 ft. between +2.0 & 37.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia. 2 in.  
size of openings 10 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.  
Meas'd.
- WATER LEVEL: 25.80 ft. below top of casing Oct 30, 1984
- PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
- YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
- LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite.

0	-	14.0'	Sand, fine to medium, occ. stone
14.0	-	20.0'	Gravel, fine to mediu,, clayey, sandy, brown
20.0	-	24.0'	Gravel, fine to medium, clayey, brown
24.0	-	41.0'	Sand, fine to coarse, gravelly, fine



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Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-19  
Client KMA:A-1 Disposal  
Date Oct. 25, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances Approx. 255 ft. N & 33 ft W of MW# 18; NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 29 T. 1 R. 11 W  
N
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 740.17 ft. (above, the level of: mean sea level ; Repr'd.)
4. TYPE of well: Monitoring Date Constructed 10/23/84 Driller Norm & John
5. DEPTH of well: 32.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
CASING: kind Galv. ; size 2" ; length 30.0 ft. between +2.0 & 28.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia 2 in.  
size of openings 7 slot , depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 28.17 ft. , below) top of casing Meas'd. Oct 30, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper 6 ft. of borehole backfilled with natural soils and bentonite.

0	-	1.1'	Clay loam topsoil
1.1	-	10.0'	Sand, fine, silty, orange
10.0	-	13.0'	Gravel, fine to coarse, sandy
13.0	-	17.0'	Gravel, fine to coarse, clayey, sandy, brown
17.0	-	25.0'	Gravel, fine to medium, clayey, silty, brown
25.0	-	38.5'	Gravel, fine to medium and sand, fine to coarse waterbearing



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Project No. \_\_\_\_\_  
Well File No. \_\_\_\_\_  
Owner's Well No. A-20  
Client KMA: A-1 Disposal  
Date Oct 27, 1984

RECORD OF WELL

1. LOCATION: State Michigan County Allegan Township Gun Plain

Distances Approx. 590 ft. west, NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T. 1 N. 11 W  
W# 12 and 40 ft. south of the north property line

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 735.67 ft. (above, the level of mean sea level) Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/24/84 Driller Norm & John

5. DEPTH of well: 32.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv ; size 2" ; length 31.0 ft. between +2.0 & 29.0 ft.

kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia. 2 in.

size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.  
Meas'd.

7. WATER LEVEL: 23.43 ft. below) top of casing \_\_\_\_\_ Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)

power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.

bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite.

0	-	2.0'	Topsoil, loamy, stoney
2.0	-	18.0'	Gravel, fine to coarse, sandy, fine to coarse
18.0	-	25.0'	Gravel. fine to medium, sandy, fine to coarse
25.0	-	38.5'	Gravel, fine to medium, sandy, fine to coarse, waterbearing



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Project No. 1091  
Well File No. \_\_\_\_\_  
Owner's Well No. A-21  
Client KMA:A-1 Disposal  
Date Oct. 21, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances 200 ft. south of MW#12, NE 1/4 NE 1/4 NW 1/4 Sec. 29 T. 1 N. R. 11 W

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 728.18 ft. (above, the level of: mean sea level Repr'd.)

4. TYPE of well: Monitoring Date Constructed 10/19/84 Driller Norm & John

5. DEPTH of well: 19.7 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv ; size 2" ; length 18.0 ft. between +2.3 & 15.7 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 4 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7. WATER LEVEL: 13.98 ft. (below) top of casing Meas'd. Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS:

0	-	7.0'	Sand, loamy, red
7.0	-	9.0'	Sand, fine to coarse, gravelly, fine
9.0	-	11.0'	Sand, fine to coarse, gravelly, dark brown
11.0	-	15.0'	Sand, fine to coarse and gravel, fine, waterbearing
15.0	-	25.0'	Gravel, fine to med. and sand, fine to coarse, waterbearing
25.0	-	28.0'	Sand, fine to med., waterbearing
28.0	-	31.0'	Clay, sandy, changing to clay, gray with depth

Upper portion of the borehole backfilled with bentonite and natural soils.



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Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-21A  
Client KMA: A-1 Disposal  
Date Oct 22, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances Approx 4" south of , NE 1/4 NE 1/4 NW 1/4 Sec. 29 T. 1 N. 11 W  
MW# 21
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 728.31 ft. (above, the level of mean sea level. - Rept'd.)
4. TYPE of well: Monitoring Date Constructed 10/19/84 Driller Norm & John
5. DEPTH of well: 24.5 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
CASING: kind Galv ; size 2" ; length 23.0 ft. between +2.5 & 20.5 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 11.58 ft. ( , below) ground \_\_\_\_\_ Meas'd. Oct. 30, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS:
- |      |   |       |   |
|------|---|-------|---|
| 0    | - | 7.0'  | Sand, loamy, red  |
| 7.0  | - | 9.0'  | Sand, fine to coarse, gravelly, fine                        |
| 9.0  | - | 11.0' | Sand, fine to coarse, gravelly, dark brown                  |
| 11.0 | - | 15.0' | Sand, fine to coarse and gravel, fine, waterbearing         |
| 15.0 | - | 17.0' | Gravel, fine to coarse, sandy, waterbearing                 |
| 17.0 | - | 25.0' | Gravel, fine to med. and sand, fine to coarse, waterbearing |
| 25.0 | - | 28.0' | Sand, fine to medium, waterbearing                          |
| 28.0 | - | 31.0' | Clay, sandy, changing to clay gray with depth               |

Upper portion of the borehole backfilled with bentonite and natural soils.



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Project No. 1091  
Well File No. \_\_\_\_\_  
Owner's Well No. A-22  
Client KMA:A-1 Disposal  
Date Oct. 25, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances Approx. 4 feet north ; NE 1/4 NE 1/4 NW 1/4 Sec. 29 T. 1 N. R. 11 W  
of MW#22A

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 725.39 ft. (above, the level of mean sea level Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/22/84 Driller Norm & John

5. DEPTH of well: 15.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2" ; length 13.0 ft. between +2.0 & 11.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7. WATER LEVEL: 9.71 ft. below) top of casing: Meas'd. Oct. 0, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper 4 feet of borehole bacfilled with bentonite and natural soils.

0	-	0.8'	Topsoil
0.8	-	4.0'	Clay, gravelly, fine to medium, red
4.0	-	10.0'	Gravel, fine to medium and sand, fine to coarse.
10.0	-	14.0'	Sand, fine to coares, gravelly, fine to med., waterbearin
14.0	-	29.5'	Sand, fine to coarse and gravel, fine to medium, waterbearing
29.5	-	30.5'	Clay, gray





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Project No. 1031

Well File No. \_\_\_\_\_

Owner's Well No. A-22AClient KMA:A 1 DisposalDate Oct. 25, 1984

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3000 East Belt Line N.E.  
Grand Rapids, Michigan 49505  
Telephone (616) 361-5092

## RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain
- Distances Approx. 260 feet north NE 1/4 NE 1/4 NW 1/4 Sec 29 T. 1 N R. 11 W  
of the NE fence corner around the active work area
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 725.43 ft. (above the level of mean sea level Rept'd.)
4. TYPE of well: Monitoring Date Constructed 10/22/84 Driller Norm & John
5. DEPTH of well: 25.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.
- CASING: kind Galv ; size 2 ; length 23.0 ft. between +2.0 & 21.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.
- SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 10.01 ft. Meas'd. below) land surface Oct. 22, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap. \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper 4' of borehole backfilled with natural soils and bentonite.
- |      |   |       |  |
|------|---|-------|--|
| 0    | - | 0.8'  | Topsoil  |
| 0.8  | - | 4.0'  | Clay, gravelly, fine to medium, red                            |
| 4.0  | - | 10.0' | Gravel, fine to med. and sand, fine to coarse                  |
| 10.0 | - | 14.0' | Sand, fine to coarse, gravelly, fine to med.,<br>waterbearing  |
| 14.0 | - | 29.5' | Sand, fine to coarse and gravel, fine to med.,<br>waterbearing |
| 29.5 | - | 30.5' | Clay, gray   |



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Grand Rapids, Michigan 49505
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Project No. 1051
Well File No.
Owner's Well No. A23
Client KMA:A-1 Disposal
Date Oct. 25, 1984

RECORD OF WELL

- 1. LOCATION: State Michigan County Allegan Township Gun Plain
Distances Approx. 85 ft. south NE 1/4 SE 1/4 NW 1/4 Sec 29 T 1 R 11 W
of MW# 1 and 4 ft. west of the fence line
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 730.61 ft. (above, the level of mean sea level or Repr'd.)
4. TYPE of well: Monitoring Date Constructed 10/22/84 Driller Norm & John
5. DEPTH of well: 17.0 ft. meas Depth to bedrock ft. Formation
6. DIAMETER: 2 in.
CASING: kind Galv ; size 2" ; length 15.0 ft. between +2.0 & 13.0 ft.
kind ; size ; length ft. between & ft.
SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia 2 in.
size of openings 7 slot ; depth to (packer or top of slots) ft.
7. WATER LEVEL: 13.45 ft. ( , below) top of casing Meas'd. Oct. 30, 1984
8. PUMP: make and serial number Cap gpm @ ft. (head)
power ; motor h.p. ; length of column & shaft ft. dia. of column & shaft in.
bowl ft.; stages; tail pipe ft.; strainer ; lubrication
9. YIELD: original yield ; pumped gpm for hours with drawdown
10. LOG and REMARKS: Upper portion of borehole backfilled with bentonite and natural soils.
0 - 2.0' Topsoil
2.0 - 6.0' Sand, clayey, brown
6.0 - 9.0' Sand, fine to medium, orange
9.0 - 11.0' Sand, fine to coarse, gravelly, fine to medium
11.0 - 17.5' Sand, fine to coarse, gravelly, fine to medium, waterbearing
17.5 - 18.0' Clay, gray



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Telephone (616) 361-5092

Project No. 1051  
Well File No. \_\_\_\_\_  
Owner's Well No. A-24  
Client KMA: A-1 Disposal  
Date Oct. 25, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances 300 ft. south of MW# 18, SW 1/4 NE 1/4 NW 1/4 Sec 29 T 1 N R 11 W  
just east of power line

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 725.12 ft. (above, the level of: mean sea level Repr'd.)

4. TYPE of well: Monitoring Date Constructed 10/23/84 Driller Norm & John

5. DEPTH of well: 22.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv ; size 2 ; length 20.0 ft. between + 2.0 & 18.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7. WATER LEVEL: 13.14 ft. (below) top of casing Meas'd. Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper 5 ft. of borehole backfilled with bentonite and natural soils.

0	-	0.3'	Topsoil
0.3	-	9.0'	Sand, fine to coarse, gravelly, fine
9.0	-	12.0'	Gravel, fine to med., sandy, fine to coarse, clay binder
12.0	-	15.0'	Sand, fine to coarse, gravelly
15.0	-	23.0'	Sand, fine to coarse, gravelly, fine to medium, waterbearing
23.0	-	27.0'	Clay, gray, gravelly, fine



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Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-25  
Client KMA:A-1 Disposal  
Date Oct. 35, 1984

## RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
 Distances Approx. 400 ft. NE NE 1/4 NE 1/4 NW 1/4 Sec. 29 T 1 R 11 N  
of NW# 15 towards MW# 12
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 726.42 ft. (above, the level of: mean sea level) Rept'd.)
4. TYPE of well: Monitoring Date Constructed 10/19/84 Driller Norm & John
5. DEPTH of well: 20.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
 CASING: kind Galv. ; size 2" ; length 18.0 ft. between +2.0 & 16.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
 size of openings 10 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.
7. WATER LEVEL: 13.44 ft. , below) top of casing Meas'd. Oct. 30, 1984
8. PUMP: make and serial number \_\_\_\_\_ Cap. \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper portion of the borehole backilled with bentonite and natural soils.

0	-	0.5'	Topsoil
0.5	-	2.0'	Sand, fine to med., red
2.0	-	8.5'	Sand, fine to coarse, gravelly, fine, tan
8.5	-	14.0	Sand, fine to coarse, gravelly, fine w/occ. stone
14.0	-	29.0'	Gravel, fine to medium, sandy, fine to coarse waterbearing
29.0	-	30.5'	Clay, gravelly, gray



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Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. A-25A  
Client KMA:A-1 Disposal  
Date Oct. 25, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances 5 ft. SW of MW# 25 NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 29 T. 1 N. R. 11 W

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 726.42 ft. (above, the level of mean sea level or Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/19/84 Driller Norm & John

5. DEPTH of well: 25.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2" ; length 23.0 ft. between +2.0 & 21.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
size of openings 10 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7. WATER LEVEL: 11.45 ft. ( below ) land surface Meas'd. Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite.

0	-	0.5'	Topsoil
0.5	-	2.0'	Sand, fine to medium, red
2.0	-	8.5'	Sand, fine to coarse, gravelly, fine, tan
8.5	-	14.0'	Sand, fine to coarse, gravelly, fine w/occ. stone
14.0	-	29.0'	Gravel, fine to medium, sandy, fine to coarse, waterbearing
29.0	-	30.5'	Clay, gravelly, gray



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Well File No. \_\_\_\_\_  
Owner's Well No. A26  
Client KMA:A-1 Disposal  
Date Oct 27, 1984

RECORD OF WELL

1. LOCATION: State Michigan County Allegan Township Gun Plain

Distances Approx. 150 ft. north, NE 1/4 SE 1/4 NW 1/4 Sec 29 T 1 R 11 W  
and 300 ft. west of the SE fence corner around the active area

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 731.21 ft. (above, ) the level of mean sea level? Rept'd.

4. TYPE of well: Monitoring Date Constructed 10/26/84 Driller Norm & John

5. DEPTH of well: 19.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv ; size 2" ; length 18.0 ft. between + 2.0 & 16.0 ft.

kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia 2 in.

size of openings 10 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7. WATER LEVEL: 13.98 ft. Meas'd. below) top of casing Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)

power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.

bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper 4 ft. of borehole backfilled with bentonite and natural soils.

0	-	0.5'	Topsoil
0.5	-	11.0'	Sand, fine to medium
11.0	-	16.5'	Sand, fine to coarse, gravelly, fine, waterbearing
16.5	-	31.0'	Gravel, fine to medium, occ. stone
31.0	-	40.0'	Gravel, fine to medium, sandy, fine to coarse



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Project No. 1034  
Well File No. \_\_\_\_\_  
Owner's Well No. A-28  
Client KMA:A-1 Disposal  
Date Oct. 25, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances \_\_\_\_\_ SE  $\frac{1}{4}$  NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 29 T. 1 N. R. 11 W

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 738.78 ft. (above, the level of: mean sea level, Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/23/84 Driller Norm & John

5. DEPTH of well: 33.5 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2" ; length 32.0 ft. between +1.5 & 30.5 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7. WATER LEVEL: 27.14 ft. ( below ) top of casing Meas'd. Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper 6 ft. of borehole backfilled with 2/3's bag of bentonite and natural soils.

0	-	3.5'	Sand, fine to medium
3.5	-	12.0'	Gravel, fine to coarse, sandy
12.0	-	14.0'	Sand, fine to med., occ. stone
14.0	-	18.0'	Gravel, fine to coarse, sandy, clayey, brown
18.0	-	24.0'	Gravel, fine to med., sandy, clayey
24.0	-	38.0'	Gravel, fine to medium, sandy, fine to coarse, waterbearing



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Project No. 03  
Well File No. \_\_\_\_\_  
Owner's Well No. A-29  
Client KMA:A-1 Disposal  
Date Oct 27, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances Approx. 245 ft. NW SE 1/4 NE 1/4 NW 1/4 Sec. 29 T 1 R 11 N  
from MW# 7 inline with MW# 15

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 726.51 ft. (above, the level of: mean sea level Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/25/84 Driller Norm & John

5. DEPTH of well: 17.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galy ; size 2" ; length 16.0 ft. between +2.0 & 14.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.  
Meas'd.

7. WATER LEVEL 13.60 ft. below) top of casing Oct. 30, 1984

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowl \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite.

0	-	1.0'	Topsoil
1.0	-	5.0'	Sand, fine to medium, orange
5.0	-	10.0'	Sand, fine to coarse, occ. fine stone
10.0	-	14.0'	Sand, fine to coarse, gravelly, fine to medium
14.0	-	16.0'	Sand, fine to coarse, gravelly, fine occ. medium, waterbearing
16.0	-	17.5'	Gravel, fine to medium, sandy, fine to coarse, waterbearing
17.7	-	25.0'	Sand, fine to coarse and gravel, fine, waterbearing
25.0	-	26.0'	Clay, gravelly, gray





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Project No. 1013-8
Well File No.
Owner's Well No. A-29A
Client KMA: A-1 Disposal
Date Oct. 27, 1984

RECORD OF WELL

1. LOCATION: State Michigan County Allegan Township Gun Plain
Distances 5 ft. SE of MW# 29, SE 1/4 NE 1/4 NW 1/4 Sec. 29 T 1 N R 11 W

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 726.66 ft. (above, the level of mean sea level Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/25/84 Driller Norm & John

5. DEPTH of well: 24.0 ft. meas Depth to bedrock ft. Formation

6. DIAMETER: 2 in.

CASING: kind Galv ; size 2" ; length 23.0 ft. between +2.0 & 21.0 ft.
kind ; size ; length ft. between & ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia. 2 in.
size of openings 7 slot ; depth to (packer or top of slots) ft.

7. WATER LEVEL: 13.77 ft. below top of casing Meas'd. Oct. 30, 1984

8. PUMP: make and serial number Cap gpm @ ft. (head)
power; motor h.p.; length of column & shaft ft. dia. of column & shaft in.
bowl ft.; stages; tail pipe ft.; strainer; lubrication

9. YIELD: original yield; pumped gpm for hours with drawdown

- 10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite.
0 - 1.0' Topsoil
1.0 - 5.0' Sand, fine to medium, orange
5.0 - 10.0' Sand fine to coarse, occ. fine stone
10.0 - 14.0' Sand, fine to coarse, gravelly, fine to medium
14.0 - 16.0' Sand, fine to coarse, gravelly, fine, occ. medium, waterbearing
16.0 - 17.5' Gravel, fine to medium, sandy, fine to coarse, waterbearing
17.5 - 25.0' Sand, fine to coarse and gravel, fine, waterbearing
25.0 - 26.0' Clay, gravelly, gray



**Aqua-Tech Geotechnical Consultants, Inc**  
 533 Clayton N.W.  
 Grand Rapids, Michigan 49504  
 (616) 453-1457

Project No. 1033  
 Well File No. A-30  
 Owner's Well No. DL-1  
 Client Drug & Lab.  
 Date Oct 30, 1984

**RECORD OF WELL**

1. LOCATION: State Michigan County Allegan Township Gun Plain  
 Distances Approx. 10 ft. NW of ; SE 1/4 NE 1/4 NW 1/4 Sec 29 T 1 N R 11 W  
the NW building corner
2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 729.06 ft. (above, the level of: mean sea level (Repr'd.))
4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm
5. DEPTH of well: 13.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
 CASING: kind Galv. ; size 2" ; length 13.0 ft. between +2.0 & 11.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material Johnson Stainless Steel ; length 2.0 ft.; Dia 2 in.  
 size of openings 10 slot , depth to (packer or top of slots) \_\_\_\_\_ ft.
- WATER LEVEL: 12.33 ft. ( below ) top of casing Meas'd. Oct. 30, 1984
7. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_ ; motor h.p. \_\_\_\_\_ ; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_ ; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_ ; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite. Well developed with a handpump; pumped 30 gallons, water still slightly cloudy

0	-	0.4'	Topsoil
0.4	-	2.0'	Sand orange
2.0	-	11.0'	Sand, fine to coarse and gravel, fine to medium
11.0	-	17.0'	Sand, fine to coarse and gravel, fine to medium, waterbearing
17.0	-	19.5'	Gravel, fine to coarse and sand fine to coarse, waterbearing
19.5	-	24.5'	Clay, sandy, stoney, gray



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Project No. 1033  
 Well File No. A-31A  
 Owner's Well No. DL-2  
 Client Drug & Lab.  
 Date Oct. 30, 1984

**RECORD OF WELL**

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances Approx. 70 ft. south of, SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T 1 N R 11 W  
the NE corner of the covered storage area & 3 ft. E of wall

2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 731.20 ft. (above,   ) the level of: mean sea level (Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm

5. DEPTH of well: 17.0 ft. meas Depth to bedrock    ft. Formation   

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2" ; length 18.0 ft. between + 3.0 & 15.0 ft.

kind    ; size    ; length    ft. between    &    ft.

SCREEN: make and material Johnson Stainless Steel ; length 2.0 ft.; Dia 2 in.

size of openings 10 slot ; depth to (packer or top of slots)    ft.

7 WATER LEVEL: 14.10 ft. (    below) top of casing Meas'd. Oct. 30, 1984

PUMP: make and serial number    Cap.    gpm @    ft. (head)

power   ; motor h.p.   ; length of column & shaft    ft. dia. of column & shaft    in.

bowls    ft.;    stages; tail pipe    ft.; strainer   ; lubrication   

9. YIELD: original yield   ; pumped    gpm for    hours with    drawdown

10. LOG and REMARKS: Upper portion of the borehole backfill with natural soils and bentonite. Well developed with a handpump; pumped 30 gallons of water, still brown cloud in water.

0	-	11.0'	Sand, fine to medium, silty
11.0	-	15.0'	Sand, fine to coarse, gravelly, fine, waterbearing
15.0	-	17.0'	Gravel, fine to coarse and sand, fine to coarse, waterbearing, could drill no deeper



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# Attachment B3-8

Project No. 1033  
 Well File No. A-3T  
 Owner's Well No. DI-3  
 Client Drug & Lab  
 Date Oct. 29, 1984

## RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
 Distances: Appro. 5 ft. south of SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T 1 N 11 W  
MW#3
  2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
  3. ELEVATION of top of well: 730.05 ft. (above, ; the level of mean sea level : Rept'd.)
  4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm
  5. DEPTH of wall: 16.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
  6. DIAMETER: 2 in.  
 CASING: kind Galv ; size 2" ; length 14.0 ft. between +2.0 & 12.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material Johnson Stainless Steel ; length 2.0 ft.; Dia 2 in.  
 size of openings 6 slot depth to (packer or top of slots) \_\_\_\_\_ ft.
  - WATER LEVEL: 12.95 ft. ( , below) top of casing Meas'd. Oct. 30, 1984
  - PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
  9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
  10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite. Well developed with a handpump; pumped 40 gallons of water, water still has a slight brown cloud.
- |      |   |       |  |
|------|---|-------|--|
| 0    | - | 11'   | Sand, fine to medium, silty  |
| 11.0 | - | 15.0' | Sand, fine to coarse, gravelly, fine, waterbearing                                   |
| 15.0 | - | 17.0' | Gravel, fine to coarse and sand, fine to coarse, waterbearing, could drill no deeper |



**Aqua-Tech Geotechnical Consultants, Inc**  
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Project No. 11033  
 Well File No. A-32  
 Owner's Well No. DL-4  
 Client Drug & Lab.  
 Date Oct. 30, 1984

**RECORD OF WELL**

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances Approx. 25 ft south of ; SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T. 1 N. R. 11 W  
the NE corner of the covered storage area

2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 729.79 ft. (above,     ) the level of: mean sea level (Repr'd.)

4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm

5. DEPTH of well: 15.0 ft. meas Depth to bedrock      ft. Formation     

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2" ; length 14.0 ft. between +2.0 & 12.0 ft.

kind      ; size      ; length      ft. between      &      ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia 2 in.

size of openings 10 slot ; depth to (packer or top of slots)      ft.

7 WATER LEVEL: 12.89 ft. (     below) top of casing Meas'd. Oct. 30, 1984

PUMP: make and serial number      Cap      gpm @      ft. (head)

power      ; motor h.p.      ; length of column & shaft      ft. dia. of column & shaft      in.

bowls      ft.;      stages; tail pipe      ft.; strainer      ; lubrication     

9. YIELD: original yield      ; pumped      gpm for      hours with      drawdown

10. LOG and REMARKS: Upper prtion of the borehole backfilled with natural soils and bentonite. Well developed with a handpump; pumped 50 gallons of water, water still has a slight gray-brown cloud.

0 - 11.0' Sand, fine to medium

11.0 - 16.0' Sand, fine to coarse, gravelly, fine to medium, waterbearing







• ENGINEERS • CONSULTANTS • PLANNERS •

**KUMAR MALHOTRA & ASSOCIATES, INC.**

3000 East Belt Line N.E.  
Grand Rapids, Michigan 49505  
Telephone (616) 361-5092

Project No. 1537  
Well File No. \_\_\_\_\_  
Owner's Well No. 33  
Client A-1 Disposal Corp  
Date Nov. 26, 1984

**RECORD OF WELL**

1. LOCATION: State Michigan County Allegan Township Gun Plain

Distances Approx. 300 ft. SE , SE 1/4 NW 1/4 NW 1/4 Sec 29 T 1 N R 11 W  
of MW# 28 on RR R-0-W, SW of RR tracks

2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp Address Plainwell, Michigan

3. ELEVATION of top of well: \_\_\_\_\_ ft. (above, ) the level of: \_\_\_\_\_ Rept'd.)

4. TYPE of well: Monitoring Date Constructed 11/19/84 Driller John&Norm

5. DEPTH of well: 25.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2 ; length 23.0 ft. between +2.0 & 21.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.  
Meas'd.

7. WATER LEVEL: \_\_\_\_\_ ft. below) \_\_\_\_\_

8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Water level upon installation approx. 19.0 ft. below the top of casing. Upper 3 ft. of borehole backfilled with bentonite and natural soils.

0	-	1.0'	Loam topsoil
1.0	-	5.0'	Clay, gravelly, red
5.0	-	12.0'	Gravel, fine to coarse, sandy, fine to coarse, clayey
12.0	-	23.0'	Gravel, fine to medium, sandy, fine to coarse, clayey
23.0	-	27.0'	Gravel. fine to medium, sandy, fine to coarse, waterbearing
27.0	-	28.0'	Clay, gray





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UMAR MALHOTRA & ASSOCIATES, INC.

300 East Belt Line N.E.  
Grand Rapids, Michigan 49505  
Telephone (616) 361-5092

Project No. 1031  
Well File No. \_\_\_\_\_  
Owner's Well No. 34  
Client A-1 Disposal Corp  
Date Nov. 26, 1984

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
Distances Approx. 300 ft. NW of SW 1/4 NW 1/4 Sec 29 T 1 N R 11 W  
MW# 28 on RR R-0-W, SW of RR tracks
2. OWNER A-1 Disposal Corp. Address Plainwell, Michigan  
CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: \_\_\_\_\_ ft. (above, \_\_\_\_\_ the level of: \_\_\_\_\_ (Rept'd.))
4. TYPE of well: Monitoring Date Constructed 11/19/84 Driller John&Norm
5. DEPTH of well: 33.0 ft. meas. Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 In.  
CASING: kind Galv. ; size 2 ; length 31.0 ft. between +2.0 & 29.0 ft.  
kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
SCREEN: make and material Johnson Stainless Steel ; length 4.0 ft.; Dia. 2 in.  
size of openings 7 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.  
Meas'd.
7. WATER LEVEL: \_\_\_\_\_ ft. ( \_\_\_\_\_ below) \_\_\_\_\_
8. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Approx. 27.0 ft. to water upon well installation (below top of casing). Upper 3 ft. of borehole backfilled with bentonite and natural soils.  
0 - 1.5' Clay, loam, sandy, red  
1.5 - 27.0' Gravel, fine to medium and clay, red, sandy  
27.0 - 38.0' Gravel, fine to medium and sand, fine to coarse waterbearing

WILKINS & WHEATON TESTING LABORATORY, INC.  
KALAMAZOO, MICHIGAN

LOG OF BORING NO. 1 (AS-1)

DATE October 26, 1981

SURFACE ELEV. 738.8

LOCATION Angle Steel Plainwell, Michigan

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT
0				Brown medium to coarse sand			
5	3	6			5.0	733.8	
10	10			Brown medium to coarse sand. to fine gravel Trace medium to coarse gravel.			
10	16	26		No Sample Recovered			
15	16	13		No Sample Recovered			
15	16			No Sample Recovered			
20	3	7		No Sample Recovered			
20	10			▽	21.0	715.8	
20					22.0	716.8	
25	13	20		Brown coarse sand to fine to coarse gravel. Trace fine to medium sand.			
25	13				29.0	709.8	
30	16	13		Coarse sand to fine to coarse gravel.			
30	18						
35	8	9			35.0	703.8	
35	14			Fine to medium gravel, some coarse gravel.			

738.8  
- 21  
-----  
717.8

COMPLETION DEPTH 58.0 WATER DEPTH 21.0 DATE \_\_\_\_\_

(AS-1)

LOG OF BORING NO. 1 (Continued)

Angle Steel

DATE October 26, 1981

SURFACE ELEV. 738.8

LOCATION Plainwell, Michigan

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT
0							
13							
14				Fine to medium gravel, some coarse gravel.	43.0	695.8	
22				Gray clay.			
33				Trace fine to medium sand.			
47							
50					50.0	688.8	
60				Gray clay. Trace fine to coarse sand.	53.5	685.3	
55				Gray clay, trace fine to coarse sand, occasional pebble.			
60				(End of Boring)	58.0	680.8	

COMPLETION DEPTH 58.0

WATER DEPTH 21.0

DATE \_\_\_\_\_

LOG OF BORING NO. 2 (AS-2)

DATE October 26, 1981

SURFACE ELEV. 738.2

LOCATION Angle Steel Plainwell, Michigan

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT
0				Topsoil - Black Clay - Sand	2.0	736.2	
5	1			Dark brown - brown fine to medium sand.			
	1						
	1						
				Clay Lense	8.0	730.2	
	4				8.5	729.7	
10	4			Brown fine to medium sand.			
	4						
	4						
				Brown coarse sand to fine gravel. Coarse gravel.	13.0	725.2	
15	8						
	14						
	13						
					19.0	719.2	
20	5						
	4				19.5	718.7	
	6			Brown coarse sand. Fine to coarse gravel. Occassional pebble.			
25	6						
	8						
	7						
				N.S.R.			
30	5						
	4						
	7						
					34.0	704.2	
35	14						
	15			Coarse sand to fine to coarse gravel. Trace fine sand and clay.			
	2						

COMPLETION DEPTH 66.0' WATER DEPTH 19.5' DATE \_\_\_\_\_

WILKINS & WHEATON TESTING LABORATORY, INC.  
KALAMAZOO, MICHIGAN

(AS-2)

LOG OF BORING NO. 2 (Cont.)

Angle Steel

DATE October 26, 1981

SURFACE ELEV. 738.2

LOCATION Plainwell, Michigan

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT					
46		15		Coarse sand to fine to medium gravel. Some coarse gravel.								
		16										
45	6	10										
		15										
50	6	12										
		13										
55	5	7										
		10										
60	14	22							Gray clay	59.0	679.2	
		17										
65	17	25		E.O.B.	66.0	672.2						
		40										

COMPLETION DEPTH 66.0' WATER DEPTH 19.5' DATE \_\_\_\_\_

WILKINS & WHEATON TESTING LABORATORY, INC.

KALAMAZOO, MICHIGAN

LOG OF BORING NO. 3 (AS-3)

Angle Steel

DATE October 26, 1981

SURFACE ELEV. 727.9

LOCATION Plainwell, Michigan

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT
0				Light brown medium to coarse sand. Fine to medium gravel. Trace coarse gravel			
5	3	3					
10	3	3				718.4	
	4				13.0	714.9	
15	3	6		Gray clay. Trace fine to coarse sand.			
20	9			E.O.B.	21.0	706.9	
25							
30							

COMPLETION DEPTH 21.0' WATER DEPTH 9.5' DATE \_\_\_\_\_

LOG OF BORING NO. 4 (AS-4)

Angle Steel  
 Plainwell, Michigan

DATE April 6, 1981

SURFACE ELEV. 725.2

LOCATION Plainwell, Michigan

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT
0							
5				Brown medium sand. Small amount fine gravel.	6.5	718.7	
10				Light brown sand. Fine to medium gravel. ▽	11.0	714.2	
15				Fine to medium sand. Light brown sand.	14.0	711.2	
15				Fine to medium gravel, cobbles.	15.0	710.2	
20				Fine to medium gravel. Small amount light brown sand.			
20				E.O.B.	21.0	704.2	
25							

COMPLETION DEPTH 21.0 WATER DEPTH 10.0 DATE \_\_\_\_\_

WILKINS & WHEATON TESTING LABORATORY, INC.  
KALAMAZOO, MICHIGAN

LOG OF BORING NO. 5 (AS-5)

DATE October 30, 1981 SURFACE ELEV. 726.9 LOCATION Angle Steel Plainwell, Michigan

DEPTH, FEET	SAMPLES	SYMBOL	DESCRIPTION	DEPTH BELOW SURFACE	ELEVATION	NATURAL MOISTURE CONTENT
0			Topsoil	1.0	725.9	
			Medium sand.	3.0	723.9	
5	2 1 1		Brown medium to coarse sand. Fine gravel	8.5	718.4	
				9.0	717.9	
10	6 6 6		Brown fine to coarse sand. Fine to medium gravel. Occasional coarse gravel. Trace of clay.	13.5	713.4	
15	12 21 30		Gray to brown clay. Medium to coarse sand. Fine gravel.			
20	12 20 22		E.O.B.	21.0	705.9	

COMPLETION DEPTH 21.0' WATER DEPTH 8.5' DATE \_\_\_\_\_



## MONITOR WELL INSTALLATION SHEET

PROJECT NAME: Plainwell Industrial Park COUNTY: Allegan  
 FIELD ENGINEER/GEOLOGIST: Joan Duncan (RL-1) INSTALL DATE: 7-28-87  
 TOWNSHIP: Gun Plain SECTION: 29 MW#: 1 FRACTION: SW 1/4 of NE 1/4  
 LOCATION: East of Acorn St. on 2nd. Division, North side of street. TOWN: TLN RANGE: R11W

### BOREHOLE DRILLING

Drilling Method: Hollow stem auger	Type of Bit: Carbide Tooth
Drilling Fluid(s) used: none	Casing size(s) used:
fluid: from: to:	size: from: to:
fluid: from: to:	size: from: to:

### MONITOR WELL DESCRIPTION

Screen Type: Stainless Steel	Casing Pipe Material: 2" Galvanized
Diameter of perforated section: 2"	Casing Pipe Diameters: O.D. I.D. 2"
Perforation Type:	Pipe Sections: Length: Number:
slots: X holes: screen:	Length: Number:
Average size of perforations: 0.007"	Length: Number:
Total Perforated Area: 2'	Joining Methods: Couplings

### PROTECTION SYSTEM

Casing protective pipe length:	Other Protection:
Protective Pipe O.D.:	

### GROUND SURFACE ELEVATION

Item	Distance above/below ground surface	Elevation (feet)
Top of Casing Pipe		
Top of Protective Pipe		
Borehole Fill Materials		
Grout/Slurry		
Bentonite	30# - top 10' of well	
Sand	2 - 11'	
Gravel	11 - 43'	
Perforated Section	41 - 43'	
Screen Tip	43'	
Bottom of Borehole	44'	
GWL after installation	21.5'	

WAS THE MONITOR WELL DEVELOPED AFTER INSTALLATION?  yes  no

METHOD OF DEVELOPMENT? Surge block - pumping until water runs clear

A sample of this water was sent to the MDNR Environmental Lab for Scan 1 and 2 analyses. This well was pulled, filled with bentonite, and abandoned.

REMARKS

# Attachment B3-8

PROJECT NAME: Plainwell Industrial Park

COUNTY: Allegan

BORING #: 1 (RL-1) H# 1

TWP: Gun Plain

SECTION: 29

LOCATION: East of Acorn on 2nd Division, Abandoned FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$

DRILL TYPE: Hollow stem auger DRILLED BY: Stan Eckley

TOWN: T1N

RANGE: R11W

RECORDED BY: Joan Duncan

GROUND SURFACE ELEVATION:

BEGAN: 7-28-87

DATE COMPLETED: 7-28-87

WEATHER: Sunny, very hot, (90.)

eleve feet	samp no.	samp type	samp depth feet	blow logs	graphic profile well	description	field test
0-0.5			0.5-2			Road gravel	
2 - 4						Dark brown, topsoil	
						Reddish brown, medium to fine sand	
			4 - 11			Medium sand with gravel and cobbles	
						Saturated @ 21,5'	
			11-43			Coarse gravel with cobbles	
						Screened at 41' - 43'	
			44'			Clay, E.O.B. 44' very compact clay	Water sample sent to MDNR lab. for Scan 1 & 2 analyses.

## MONITOR WELL INSTALLATION SHEET

PROJECT NAME: Plainwell Industrial Park

COUNTY: Allegan

FIELD ENGINEER/GEOLOGIST: Joan Duncan

(RL-1)

INSTALL DATE: 7-29-87

TOWNSHIP: Gun Plain

SECTION: 29

MW#: 2

FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$

LOCATION: West Angle Steel by RR tracks (E00-S1969)

TOWN: T1N RANGE: R11W

### BOREHOLE DRILLING

Drilling Method: Hollow stem auger Drilling Fluid(s) used: none fluid:            from:            to: fluid:            from:            to:	Type of Bit: Carbide tooth Casing size(s) used: size:            from:            to: size:            from:            to:
--	--

### MONITOR WELL DESCRIPTION

Screen Type: Stainless Steel Diameter of perforated section: 2" Perforation Type: slots: X        holes:            screen: Average size of perforations: 0.007" Total Perforated Area: 2'	Casing Pipe Material: 2" galvanized Casing Pipe Diameters: O.D.            I.D. 2" Pipe Sections: Length: 9'        Number: 6 Length: 3'        Number: 2 Length:            Number: Joining Methods: Couplings
---	--

### PROTECTION SYSTEM

Casing protective pipe length:	Other Protection:
Protective Pipe O.D.:	




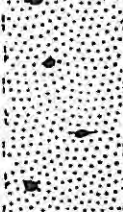



### GROUND SURFACE ELEVATION

Item	Distance above/below ground surface	Elevation (feet)
Top of Casing Pipe		
Top of Protective Pipe		
Borehole Fill Materials		
Grout/Slurry		
Bentonite	30# - top 10'	
Sand	1 - 18'	
Gravel	18 - 60'	
Perforated Section	57 - 59'	
Screen Tip	59'	
Bottom of Borehole	61'	
GWL after installation		

WAS THE MONITOR WELL DEVELOPED AFTER INSTALLATION?        yes                                no

METHOD OF DEVELOPMENT? Surge-block pumping until water runs clear

**PROJECT NAME:** Plainwell Industrial Park      **COUNTY:** Allegan  
**BORING #:** 2      **MAP:** 2 (RL-2) **TWP:** Gun Plain      **SECTION:** 29  
**LOCATION:** West of Angle Steel (Flexible Furn.) by **FRACTION:** SW $\frac{1}{4}$  of NE $\frac{1}{4}$   
**DRILL TYPE:** R.R. tracks      **DRILLED BY:** Stan Eckley      **TOWN:** T1N      **RANGE:** R11W  
                  Hollow stem auger  
**RECORDED BY:** Joan Duncan      **GROUND SURFACE ELEVATION:**  
**BEGAN:** 7-29-87      **DATE COMPLETED:** 7-29-87      **WEATHER:** sunny, very hot, +90.

eleve: feet	samp: no.	samp: type	samp: depth	no. blows	depth: feet	graphic: profile: well	description	field test
					0		Black, topsoil	
					1 - 4		Brown, medium sand	
					4 - 5		Brown, medium to coarse sand	
					5-18		Coarse sand with pebbles	
							Saturated at 21'	Soil sample, wet; headspace analyzed
					18-60		Coarse gravel	
					60-61		Screened @ 57-59' Clay E.O.B. - 61'	Water sampled and G.C. analyzed after 30 minutes of devel- opment.

## MONITOR WELL INSTALLATION SHEET

PROJECT NAME: Plainwell Industrial Park

COUNTY: Allegan

FIELD ENGINEER/GEOLOGIST: Joan Duncan

INSTALL DATE: 7-30-87

TOWNSHIP: Gun Plain

SECTION: 29

(RL-3)  
MW#: 3

FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$

LOCATION: Kalamazoo Mfg. Co. parking lot

TOWN: TIN RANGE: R11W

### BOREHOLE DRILLING

Drilling Method: Hollow stem auger	Type of Bit: Carbide tooth
Drilling Fluid(s) used: none	Casing size(s) used:
fluid: from: to:	size: from: to:
fluid: from: to:	size: from: to:

### MONITOR WELL DESCRIPTION

Screen Type: Stainless Steel	Casing Pipe Material: 2" galvanized
Diameter of perforated section: 2"	Casing Pipe Diameters: O.D. I.D. 2"
Perforation Type:	Pipe Sections: Length: 9' Number: 4
slots: X holes: screen:	Length: Number:
Average size of perforations: 0.007"	Length: Number:
Total Perforated Area: 4'	Joining Methods: Couplings

### PROTECTION SYSTEM

Casing protective pipe length:	Other Protection:
Protective Pipe O.D.:	

### GROUND SURFACE ELEVATION

Item	Distance above/below ground surface	Elevation (feet)
Top of Casing Pipe		
Top of Protective Pipe		
Borehole Fill Materials		
Grout/Slurry		
Bentonite	30# top 10' of well	
Sand	0 - 14'	
Gravel	14 - 38'	
Perforated Section	34.5' - 38.5'	
Screen Tip	38.5'	
Bottom of Borehole	38'	
GWL after installation		

WAS THE MONITOR WELL DEVELOPED AFTER INSTALLATION?  yes  no

METHOD OF DEVELOPMENT? Surge block pumping until water runs clear

REMARKS

PROJECT NAME: Plainwell Industrial Park  
 BORING #: 3      MUM: 3      TWP: Gun Plain  
 LOCATION: Parking lot of Kalamazoo Mfg. (RL-3)

COUNTY: Allegan      SECTION: 29  
 FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$   
 DRILL TYPE: Hollow stem auger      DRILLED BY: Stan Eckley      TOWN: T1N      RANGE: R11W  
 RECORDED BY: Joan Duncan      GROUND SURFACE ELEVATION:  
 BEGAN: 7-30-87      DATE COMPLETED: 7-30-87      WEATHER: Sunny, ver hot. 90+.

feet	no.	type	depth	blows	feet	well	graphic	description	field test
0			3					Dark Brown sand and gravel 'Fill' - (hand dug)	
3			14					Brown medium sand and pebbles	
14			27					Coarse gravel with medium sand cobbles	Soil sample at saturated zone ; G.C. analyzed.
27			38					Coarse gravel	
38'								Screened @ 34.5 - 38.5' Clay	Water sample G.C. analyzed after 30 minutes development.
								E.O.B. - 38'	

## MONITOR WELL INSTALLATION SHEET

PROJECT NAME: Plainwell Industrial Park

COUNTY: Allegan

FIELD ENGINEER/GEOLOGIST: Joan Duncan

INSTALL DATE: 7-30-87

TOWNSHIP: Gun Plain

SECTION: 29

(RL-4)

MW#: 4

FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$

LOCATION: Corner Acorn and 2nd Division, Front of Brick Bldg.

TOWN: TLN

RANGE: R11W

### BOREHOLE DRILLING

Drilling Method: Hollow stem auger	Type of Bit: Carbide tooth
Drilling Fluid(s) used: none	Casing size(s) used:
fluid: from: to:	size: from: to:
<del>fluid: from: to:</del>	<del>size: from: to:</del>

### MONITOR WELL DESCRIPTION

Screen Type: Stainless Steel	Casing Pipe Material: 2" galvanized
Diameter of perforated section: 2"	Casing Pipe Diameters: O.D. I.D. 2"
Perforation Type:	Pipe Sections: Length: 9' Number: 5
slots: X holes: screen:	Length: Number:
Average size of perforations: 0.007"	Length: Number:
Total Perforated Area: 4'	Joining Methods: Couplings

### PROTECTION SYSTEM

Casing protective pipe length:	Other Protection:
Protective Pipe O.D.:	

### GROUND SURFACE ELEVATION

Item	Distance above/below ground surface	Elevation (feet)
Top of Casing Pipe		
Top of Protective Pipe		
Borehole Fill Materials		
Grout/Slurry		
Bentonite	30# - top 10' of well	
Sand	0 - 20'	
Gravel	20 - 45'	
Perforated Section	42 - 46'	
Screen Tip	46'	
Bottom of Borehole	46'	
GWL after installation		

WAS THE MONITOR WELL DEVELOPED AFTER INSTALLATION?  yes  no

METHOD OF DEVELOPMENT? Surge block pumping until water runs clear.

REMARKS

# Attachment B3-8

PROJECT NAME: Plainwell Industrial Park

COUNTY: Allegan

BORING #: 4

NO. 4 (RL-4) TWP: Gun Plain

SECTION: 29

LOCATION: Corner Acorn & 2nd Division, Front of Bldg FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$

DRILL TYPE: Hollow stem auger DRILLED BY: Stan Eckley

TOWN: T1N

RANGE: R11W

RECORDED BY: Joan Duncan

GROUND SURFACE ELEVATION:

BEGAN: 7-30-87

DATE COMPLETED: 7-30-87

WEATHER: Sunny - Hot

eleve feet	samp no.	samp type	samp depth	no. blows	graphic profile well	description	field test
0 - 4						Dark brown, medium sand, trace gravel (fill)	
4-20						Medium sand and gravel, trace silt, cobbles	Soil sample @ saturated zone, G.C. analyzed - 20'
						Saturated 21'	Headspace analysis, 24-28' sample.
20-45						Coarse gravel	Headspace analysis, 33-37' sample.
						Screened @ 42 - 46'	Headspace analysis, 42-46' sample.
45-46						Clay	
						E.O.B. 46'	





# Attachment B3-8

**PROJECT NAME:** Plainwell Industrial Park      **COUNTY:** Allegan  
**BORING #:** 5      **MAP:** 5 (RL-5) **WP:** Gun Plain      **SECTION:** 29  
**LOCATION:** Kalamazoon Mfg. Co. parking lot      **FRACTION:** SW $\frac{1}{4}$ -NE $\frac{1}{4}$   
**DRILL TYPE:** Hollow stem auger      **DRILLED BY:** Stan Eckley      **TOWN:** T1N      **RANGE:** R11W  
**RECORDED BY:** Joan Duncan      **GROUND SURFACE ELEVATION:**  
**BEGAN:** 8-3-87      **DATE COMPLETED:** 8-3-87      **WEATHER:** Hot - Humid

elelev: feet:	samp: no:	samp: type:	samp: depth: blows:	no.:	depth: feet:	graphic: profile: well :	description	field test
					0 - 3'		Dark Brown, medium sand & gravel (fill)	
					3-14'		Brown, medium sand with pebbles	
					14-25'		Static water level - 21.0' Coarse gravel with medium sand cobbles Screened @ 19-25' E.O.B. -25'	Water sample taken after 30 minutes of development. G.C. analyzed.

## MONITOR WELL INSTALLATION SHEET

PROJECT NAME: Plainwell Industrial Park

COUNTY: Allegan

FIELD ENGINEER/GEOLOGIST: Joan Duncan

INSTALL DATE: 8-4-87

TOWNSHIP: Gun Plain

SECTION: 29

MW#: (RL-6)

FRACTION: SW $\frac{1}{4}$  - NE $\frac{1}{4}$

LOCATION: E00-S875, East of RR tracks and A-1 Disposal

TOWN: TIN

RANGE: R11W

### BOREHOLE DRILLING

Drilling Method: Hollow stem auger

Type of Bit: Carbide tooth

Drilling Fluid(s) used: none

Casing size(s) used:

fluid: from: to:

size: from: to:

~~fluid: from: to:~~

~~size: from: to:~~

### MONITOR WELL DESCRIPTION

Screen Type:

Casing Pipe Material:

Diameter of perforated section:

Casing Pipe Diameters: O.D. I.D.

Perforation Type:

Pipe Sections: Length: Number:

slots: holes: screen:

Length: Number:

Average size of perforations:

Length: Number:

Total Perforated Area:

Joining Methods:

### PROTECTION SYSTEM

Casing protective pipe length:

Other Protection:

Protective Pipe O.D.:

### GROUND SURFACE ELEVATION

Item	Distance above/below ground surface	Elevation (feet)
Top of Casing Pipe		
Top of Protective Pipe		
Borehole Fill Materials		
Grout/Slurry		
Bentonite		
Sand		
Gravel		
Perforated Section		
Screen Tip		
Bottom of Borehole		
GWL after installation		

WAS THE MONITOR WELL DEVELOPED AFTER INSTALLATION?       yes       no

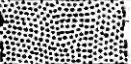


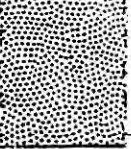
METHOD OF DEVELOPMENT? \_\_\_\_\_

REMARKS

This boring was terminated due to noxious fumes and the presence of a gray

# Attachment B3-8

PROJECT NAME: Plainwell Industrial Park                      COUNTY: Allegan  
 BORING #: 6                      TWP: (RL-6)                      SECTION: 29  
 LOCATION: E00-S875                      FRACTION: SW $\frac{1}{4}$ -BE $\frac{1}{4}$   
 DRILL TYPE: Hollow stem auger                      DRILLED BY: Stan Eckley                      TOWN: T1N                      RANGE: R11W  
 RECORDED BY: Joan Duncan                      GROUND SURFACE ELEVATION:  
 BEGAN: 8-4-87                      DATE COMPLETED: Not completed                      WEATHER: Hot - Humid

ele: feet:	samp no.:	samp type:	samp depth:	samp blows:	no. feet:	depth well:	graphic profile:	description	field test
			0-3.5'					Brown, medium sand	Soil sample @-3', Headspace analyzed
			3.5-5'					Medium sand + heavy gray sludge	
			5-7'					Wet medium sand + heavy gray sludge	Strong odor similar to paint or paint thinner
			7-15'					Medium sand	
			15'					Termination of Boring due to noxious fumes.	Wet soil sampled - 10' headspace ana- lyzed.

RECORD OF SUBSURFACE INVESTIGATION

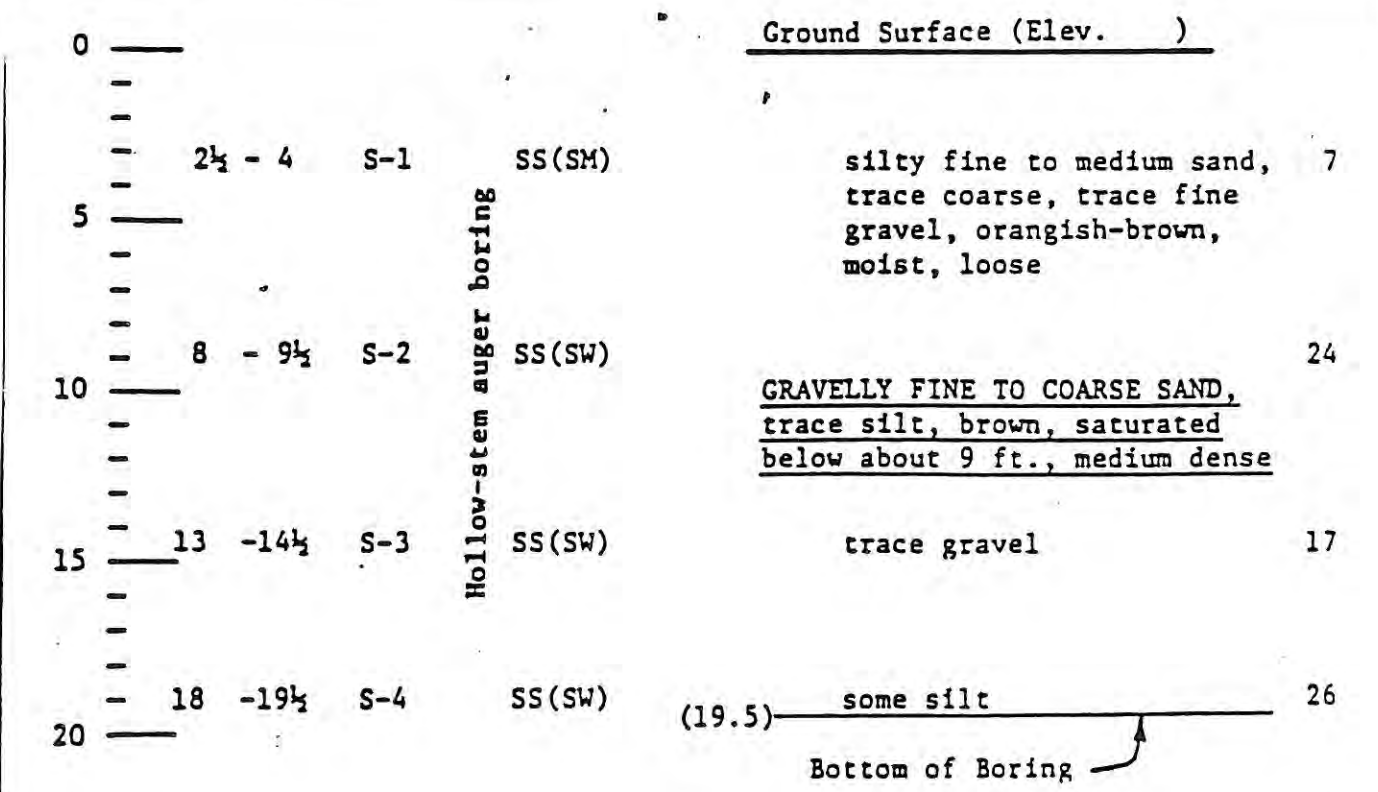
Client A-1 Disposal Co., Inc.  
 Project Site of A-1 Disposal Co., Inc.  
 Site Part of E<sub>1</sub>, NW<sub>1</sub>, Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 21, 1980  
 Driller A-1 Disposal Co., Inc.  
 Driller: Ted Snyder

Groundwater Information Water level at 9.4 ft. depth, 2½ hours after boring.  
 Water level at 9.3 ft. depth, 3 days after boring.  
 Piezometer installed, see note page 2.

LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	N blows/ft.
------------	-------------------	---------------	--------------------------	------------	-------------------------	-------------



RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
Project Site of A-1 Disposal Co., Inc.  
Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 21, 1980  
Driller A-1 Disposal Co., Inc.  
Driller: Ted Snyder

Groundwater Information See Sheet 1

LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material
------------	-------------------	---------------	--------------------------	------------	-------------------------

Continued from Sheet 1

Note: Piezometer M-5  
15 $\frac{1}{2}$  ft. of 2 in. galvanized steel pipe  
3 ft. of 1 $\frac{1}{2}$  in. well point, 2 $\frac{1}{2}$  ft. screen (60 gauze)  
2 ft. - 0 in. stick-up  
Screen set from 14 ft. to 16 $\frac{1}{2}$  ft.  
Piezometer was sealed with one bag of dry bentonite and sand and mounded

RECORD OF SUBSURFACE INVESTIGATION

Client Project Site A-1 Disposal Co., Inc.  
 Site of A-1 Disposal Co., Inc.  
 Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring Driller November 24, 1980  
 A-1 Disposal Co., Inc.  
 Driller: Ted Snyder

Groundwater Information Water level at 10.6 ft. depth after boring.  
 Piezometer installed, see note page 2.

LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	N blows/ft.
0					<u>Ground Surface (Elev. )</u>	
	3 - 4 $\frac{1}{2}$	S-1	SS(SP)		fine to medium sand, trace coarse, trace fine gravel, trace silt, brown, moist, medium dense to about 11 ft.	13
	8 - 9 $\frac{1}{2}$	S-2	SS(SP)		<u>FINE TO COARSE SAND, trace silt, trace gravel, gray, saturated below about 10 ft., medium dense</u>	31
	13 - 14 $\frac{1}{2}$	S-3	SS(SW)			26
	18 - 19 $\frac{1}{2}$	S-4	SS(SW)			20
				(21)		
	23 - 24 $\frac{1}{2}$	S-5	SS(CL)		<u>SILTY CLAY, trace fine to coarse sand, trace gravel, gray, moist, hard</u>	62 *q <sub>p</sub> =4.5+

Hollow-stem auger boring

# Attachment B3-9

## RECORD OF SUBSURFACE INVESTIGATION

Client A-1 Disposal Co., Inc.  
 Project Site of A-1 Disposal Co., Inc.  
 Site Part of E $\frac{1}{2}$ , NW $\frac{1}{4}$ , Sec. 29, Gun Plain Twp., Allegan Co., MI

Date of Boring November 24, 1980  
 Driller A-1 Disposal Co., Inc.  
 Driller: Ted Snyder

Groundwater Information See Sheet 1

### LOG

Depth Feet	Sample Depth Feet	Sample Number	Sample Type & USC Class.	Depth Feet	Description of Material	$\frac{N}{\text{blows/ft.}}$
25						
	28-29 $\frac{1}{2}$	S-6	SS(CL)			89 $q_p=4.5+$
30					<u>SILTY CLAY, trace fine to coarse sand, trace gravel, gray, moist, hard</u>	
	33-34 $\frac{1}{2}$	S-7	SS(CL)	(34.5)		69 $q_p=4.5+$
35					Bottom of Boring	

Continued from Sheet 1

Note:

Piezometer M-6  
 20 $\frac{1}{2}$  ft. of 2-inch galvanized steel pipe  
 3 ft. of 1 $\frac{1}{2}$ -inch well point, 2 $\frac{1}{2}$  ft. screen (60 gauze)  
 3'-0" stick-up  
 screen set from 18 ft. to 20 $\frac{1}{2}$  ft.  
 Piezometer was sealed with one bag of dry bentonite and sand and mounded.





**Aqua-Tech Geotechnical Consultants, Inc**  
 533 Clayton N.W.  
 Grand Rapids, Michigan 49504  
 (616) 453-1457

Project No. 1033  
 Well File No. A-30  
 Owner's Well No. DI-1  
 Client Drug & Lab.  
 Date Oct 30, 1984

Attachment B3-9

**RECORD OF WELL**

1. LOCATION: State Michigan County Allegan Township Gun Plain  
 Distances Approx. 10 ft. NW of ; SE 1/4 NE 1/4 NW 1/4 Sec 29 T 1 R 11 W  
the NW building corner
2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
3. ELEVATION of top of well: 729.06 ft. (above, the level of: mean sea level (Repr'd.))
4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm
5. DEPTH of well: 13.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
6. DIAMETER: 2 in.  
 CASING: kind Galv. ; size 2" ; length 13.0 ft. between +2.0 & 11.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material Johnson Stainless Steel ; length 2.0 ft.; Dia 2 in.  
 size of openings 10 slot , depth to (packer or top of slots) \_\_\_\_\_ ft.
- WATER LEVEL: 12.33 ft. ( Meas'd. below) top of casing Oct. 30, 1984
7. PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite. Well developed with a handpump; pumped 30 gallons, water still slightly cloudy

0	-	0.4'	Topsoil
0.4	-	2.0'	Sand orange
2.0	-	11.0'	Sand, fine to coarse and gravel, fine to medium
11.0	-	17.0'	Sand, fine to coarse and gravel, fine to medium, waterbearing
17.0	-	19.5'	Gravel, fine to coarse and sand fine to coarse, waterbearing
19.5	-	24.5'	Clay, sandy, stoney, gray



**Aqua-Tech Geotechnical Consultants, Inc**  
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 Grand Rapids, Michigan 49504  
 (616) 453-1457

Project No. 1033  
 Well File No. A-31A  
 Owner's Well No. DL-2  
 Client Drug & Lab.  
 Date Oct. 30, 1984

Attachment B3-9

**RECORD OF WELL**

1. LOCATION: State Michigan County: Allegan Township: Gun Plain

Distances Approx. 70 ft. south of, SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T 1 N R 11 W  
the NE corner of the covered storage area & 3 ft. E of wall

2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan

CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 731.20 ft. (above, ) the level of: mean sea level ( Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm

5. DEPTH of well: 17.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.

CASING: kind Galv. ; size 2" ; length 18.0 ft. between + 3.0 & 15.0 ft.

kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 2.0 ft.; Dia 2 in.

size of openings 10 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7 WATER LEVEL: 14.10 ft. ( below) top of casing Meas'd. Oct. 30, 1984

PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)

power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.

bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper portion of the borehole backfill with natural soils and bentonite. Well developed with a handpump; pumped 30 gallons of water, still brown cloud in water.

0	-	11.0'	Sand, fine to medium, silty
11.0	-	15.0'	Sand, fine to coarse, gravelly, fine, waterbearing
15.0	-	17.0'	Gravel, fine to coarse and sand, fine to coarse, waterbearing, could drill no deeper



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Project No. 1033  
 Well File No. A-31  
 Owner's Well No. 01-3  
 Client Drug & Lab  
 Date Oct. 29, 1984

Attachment B3-9

RECORD OF WELL

1. LOCATION: State Michigan County Allegan Township Gun Plain  
 Distances Appro. 5 ft. south of SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 29 T 1 N R 11 W  
MW#3
  2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan
  3. ELEVATION of top of well: 730.05 ft. (above, ; the level of mean sea level : Rept'd.)
  4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm
  5. DEPTH of well: 16.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_
  6. DIAMETER: 2 in.  
 CASING: kind Galv ; size 2" ; length 14.0 ft. between +2.0 & 12.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.  
 SCREEN: make and material Johnson Stainless Steel ; length 2.0 ft.; Dia 2 in.  
 size of openings 6 slot depth to (packer or top of slots) \_\_\_\_\_ ft.
  - WATER LEVEL: 12.95 ft. ( , below) top of casing Meas'd. Oct. 30, 1984
  - PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_
  9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown
  10. LOG and REMARKS: Upper portion of the borehole backfilled with natural soils and bentonite. Well developed with a handpump; pumped 40 gallons of water, water still has a slight brown cloud.
- |      |   |       |   |  |
|------|---|-------|---|--|
| 0    | - | 11'   | - | Sand, fine to medium, silty  |
| 11.0 | - | 15.0' | - | Sand, fine to coarse, gravelly, fine, waterbearing                                   |
| 15.0 | - | 17.0' | - | Gravel, fine to coarse and sand, fine to coarse, waterbearing, could drill no deeper |



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 533 Clayton N.W.  
 Grand Rapids, Michigan 49504  
 (616) 453-1457

Project No. 1033  
 Well File No. A-32  
 Owner's Well No. DL-4  
 Client Drug & Lab.  
 Date Oct. 30, 1984

Attachment B3-9

RECORD OF WELL

1. LOCATION: State Michigan County: Allegan Township: Gun Plain  
 Distances Approx. 25 ft south of ; SE 1/4 NE 1/4 NW 1/4 Sec 29 T 1 N R 11 W  
the NE corner of the covered storage area

2. OWNER Drug & Laboratory Disposal Address Plainwell, Michigan  
 CONTRACTOR A-1 Disposal Corp. Address Plainwell, Michigan

3. ELEVATION of top of well: 729.79 ft. (above, ) the level of: mean sea level ( Rept'd.)

4. TYPE of well: Monitoring Date Constructed 10/29/84 Driller John & Herm

5. DEPTH of well: 15.0 ft. meas Depth to bedrock \_\_\_\_\_ ft. Formation \_\_\_\_\_

6. DIAMETER: 2 in.  
 CASING: kind Galv. ; size 2" ; length 14.0 ft. between +2.0 & 12.0 ft.  
 kind \_\_\_\_\_ ; size \_\_\_\_\_ ; length \_\_\_\_\_ ft. between \_\_\_\_\_ & \_\_\_\_\_ ft.

SCREEN: make and material Johnson Stainless Steel ; length 3.0 ft.; Dia 2 in.  
 size of openings 10 slot ; depth to (packer or top of slots) \_\_\_\_\_ ft.

7 WATER LEVEL: 12.89 ft. ( below) top of casing Meas'd. Oct. 30, 1984

PUMP: make and serial number \_\_\_\_\_ Cap \_\_\_\_\_ gpm @ \_\_\_\_\_ ft. (head)  
 power \_\_\_\_\_; motor h.p. \_\_\_\_\_; length of column & shaft \_\_\_\_\_ ft. dia. of column & shaft \_\_\_\_\_ in.  
 bowls \_\_\_\_\_ ft.; \_\_\_\_\_ stages; tail pipe \_\_\_\_\_ ft.; strainer \_\_\_\_\_; lubrication \_\_\_\_\_

9. YIELD: original yield \_\_\_\_\_; pumped \_\_\_\_\_ gpm for \_\_\_\_\_ hours with \_\_\_\_\_ drawdown

10. LOG and REMARKS: Upper prtion of the borehole backfilled with natural soils and bentonite. Well developed with a handpump; pumped 50 gallons of water, water still has a slight gray-brown cloud.

- 0 - 11.0' Sand, fine to medium
- 11.0 - 16.0' Sand, fine to coarse, gravelly, fine to medium, waterbearing





**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2022**

		<b>144<sup>th</sup> Quarter 03-01-2022</b>		<b>145<sup>th</sup> Quarter 06-02-2022</b>		<b>146<sup>th</sup> Quarter 09-xx-2022</b>		<b>147<sup>th</sup> Quarter 12-xx-2022</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	10.48	718.58	10.71	718.35				
DL-2	731.20	12.27	718.93	12.59	718.61				
DL-3	730.04	11.11	718.93	11.42	718.62				
DL-4	729.76	10.90	718.86	11.18	718.58				
DL-5	729.22	10.61	718.61	10.85	718.37				
DL-7	729.23	11.48	717.75	11.67	717.56				
A-3	730.96	11.94	719.02	12.28	718.68				
A-4	731.07	12.21	718.86	12.55	718.52				
A-6	728.10	11.91	716.19	11.98	716.12				
A-14	729.66	12.35	717.31	11.39	718.27				
MW-10	730.32	11.77	718.55	11.95	718.37				

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2014**

		112 <sup>th</sup> Quarter 04-10-14		113 <sup>th</sup> Quarter 06-19-14		114 <sup>th</sup> Quarter 09-29-14		115 <sup>th</sup> Quarter 12-10-14	
Well Number	T.O.C. Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation
DL-1	729.06	9.64	719.42	11.02	718.04	11.95	717.11	11.45	717.61
DL-2	731.20	11.32	719.88	13.11	718.09	12.22	718.98	13.05	718.15
DL-3	730.04	10.21	719.83	11.93	718.11	12.53	717.51	12.13	717.91
DL-4	729.76	10.02	719.74	11.76	718.00	12.28	717.48	11.76	718.00
DL-5	729.22	9.73	719.49	11.60	717.62	12.21	717.01	11.75	717.47
DL-7	729.23	11.94	717.29	12.71	716.52	13.22	716.01	12.66	716.57
A-3	730.96	10.97	719.99	12.93	718.23	13.21	717.75	12.72	718.24
A-4	731.07	11.46	719.61	13.01	718.06	13.52	717.55	13.00	718.07
A-6	728.10	11.37	716.73	13.12	714.98	13.71	714.39	13.29	714.81
A-14	729.66	11.31	718.35	13.00	716.66	12.43	717.23	12.25	717.41
MW-10	730.32	10.78	719.54	12.62	717.70	13.15	717.17	12.59	717.73



**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2013**

		<b>108<sup>th</sup> Quarter 03-26-13</b>		<b>109<sup>th</sup> Quarter 07-01-13</b>		<b>110<sup>th</sup> Quarter 09-16-13</b>		<b>111<sup>th</sup> Quarter 01-10-14</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	11.37	717.69	10.87	718.19	11.66	717.40	11.75	717.31
DL-2	731.20	13.00	718.20	12.66	718.54	13.26	717.94	13.37	717.83
DL-3	730.04	11.56	718.48	11.40	718.64	12.17	717.87	12.33	717.71
DL-4	729.76	11.68	718.08	11.31	718.45	11.94	717.82	12.06	717.70
DL-5	729.22	11.46	717.76	10.94	718.28	11.80	717.42	11.92	717.30
DL-7	729.23	12.69	716.54	11.87	717.36	12.98	716.25	13.06	716.17
A-3	730.96	12.67	718.28	12.33	718.63	12.82	718.14	13.01	717.95
A-4	731.07	12.93	718.14	12.09	718.98	13.14	717.93	13.29	717.78
A-6	728.10	11.91	716.19	12.09	716.01	13.35	714.75	13.54	714.56
A-14	729.66	12.15	717.51	11.60	718.06	12.07	717.59	12.37	717.29
MW-10	730.32	12.77	717.55	12.01	718.31	12.79	717.53	12.99	717.33

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2012**

		104 <sup>th</sup> Quarter 03-08-12		105 <sup>st</sup> Quarter 06-08-12		106 <sup>nd</sup> Quarter 09-05-12		107 <sup>rd</sup> Quarter 12-19-12	
Well Number	T.O.C. Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation
DL-1	729.06	10.64	718.64	11.74	717.32	12.49	716.57	12.49	716.57
DL-2	731.20	12.02	719.18	13.30	717.90	14.12	717.08	13.85	717.35
DL-3	730.04	10.83	719.21	13.05	716.99	13.00	717.04	12.85	717.19
DL-4	729.76	10.72	719.04	12.09	717.67	12.96	716.80	12.72	717.04
DL-5	729.22	10.55	718.67	11.89	717.33	12.61	716.61	12.52	716.70
DL-6	730.20	8.97	721.05	10.39	719.63	14.11	715.91		
A-3	730.96	11.63	719.35	12.65	718.31	13.77	717.19	14.29	716.67
A-4	731.07	11.95	719.12	12.09	718.98	14.06	717.01	13.45	717.62
A-5	732.52	13.37	719.15	14.79	717.73	15.55	716.97		
A-6	728.10	12.12	715.98	13.28	714.82	11.31	716.79	14.28	713.82
A-14	729.66	11.72	717.94	13.34	716.32	13.04	716.62	12.57	717.09
MW-10	730.32	11.68	718.64	12.97	717.35	14.86	715.46	13.72	716.60
DL-7	Unknown							13.67	na

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2010**

		<b>96<sup>th</sup> Quarter 03-09-10</b>		<b>97<sup>th</sup> Quarter 06-09-10</b>		<b>98<sup>th</sup> Quarter 09-08-10</b>		<b>99<sup>th</sup> Quarter 12-07-10</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	11.73	717.73	10.41	718.65	12.58	716.48	11.90	717.16
DL-2	731.20	13.27	717.93	11.92	719.28	13.18	718.02	13.50	717.70
DL-3	730.04	12.20	717.84	10.78	719.26	12.20	717.84	12.34	717.70
DL-4	729.76	12.09	717.67	10.66	719.10	11.87	717.89	12.21	717.55
DL-5	729.22	11.81	717.41	10.51	718.71	11.77	717.45	12.02	717.20
DL-6	730.20	10.22	718.09	8.86	719.45	10.16	718.15	10.47	717.84
A-3	730.96	12.86	718.10	11.63	719.33	11.86	719.10	13.11	717.85
A-4	731.07	13.27	717.80	11.84	719.23	12.81	718.26	13.44	717.63
A-5	732.52	14.67	717.85	13.34	719.18	14.59	717.93	14.90	717.62
A-6	728.10	13.46	717.40	12.09	717.77	13.10	717.76	13.58	716.28
A-14	729.66	12.53	717.13	11.57	718.09	13.15	716.51	12.64	717.02
MW-10	730.32	12.97	717.35	11.59	718.73	12.74	717.58	13.15	717.17

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2009**

		<b>92<sup>nd</sup> Quarter 03-05-09</b>		<b>93<sup>rd</sup> Quarter 06-01-09</b>		<b>94<sup>th</sup> Quarter 09-02-09</b>		<b>95<sup>th</sup> Quarter 12-08-09</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	9.95	719.11	10.14	718.92	11.86	717.20	11.60	717.46
DL-2	731.20	11.64	719.56	12.00	719.20	13.01	718.19	13.29	719.91
DL-3	730.04	10.48	719.56	10.84	719.20	11.95	718.09	11.98	718.06
DL-4	729.76	10.36	719.40	10.67	719.09	11.84	717.92	10.80	718.96
DL-5	729.22	10.08	719.14	10.14	719.08	14.53	714.69	11.63	717.59
DL-6	730.20	8.60	719.71	8.99	719.32	10.05	718.26	10.12	718.19
A-3	730.96	11.24	719.72	11.64	719.32	12.72	718.24	12.29	718.67
A-4	731.07	9.49	721.58	12.02	719.05	13.04	718.03	12.80	718.27
A-5	732.52	13.00	719.52	13.34	719.18	11.68	720.84	14.62	717.90
A-6	728.10	11.30	718.56	11.77	718.09	13.24	716.62	13.37	716.49
A-14	729.66	11.52	718.14	10.52	719.14	12.29	717.37	13.13	716.53
MW-10	730.32	11.09	719.23	11.44	718.88	12.77	717.55	12.87	717.45

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2008**

		<b>88<sup>th</sup> Quarter 03-10-08</b>		<b>89<sup>th</sup> Quarter 06-03-08</b>		<b>90<sup>th</sup> Quarter 09-09-08</b>		<b>91<sup>st</sup> Quarter 12-08-08</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	10.35	718.71	11.47	715.59	10.31	718.75	11.53	717.53
DL-2	731.20	12.00	719.20	13.20	718.00	11.99	719.21	13.17	718.03
DL-3	730.04	10.85	719.19	11.90	718.14	10.77	719.27	11.99	718.05
DL-4	729.76	10.65	719.11	11.84	717.92	10.81	718.95	11.82	717.94
DL-5	729.22	10.46	718.76	11.59	717.63	10.42	718.80	11.63	717.59
DL-6	730.20	8.97	721.05	10.12	718.19	9.26	719.05	10.15	718.16
A-3	730.96	11.64	719.32	12.79	718.17	11.86	719.10	12.78	718.18
A-4	731.07	11.93	719.14	13.09	717.98	12.10	718.97	13.07	718.00
A-5	732.52	13.38	719.14	14.55	717.97	13.57	718.95	14.57	717.95
A-6	728.10	11.82	716.28	12.88	716.98	12.00	717.86	13.05	716.81
A-14	729.66	11.23	718.43	11.78	717.88	11.03	718.63	12.08	717.58
MW-10	730.32	11.50	718.82	12.66	717.66	11.71	718.61	12.73	717.59

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2007**

		<b>84<sup>th</sup> Quarter 03-08-07</b>		<b>85<sup>th</sup> Quarter 06-07-07</b>		<b>86<sup>th</sup> Quarter 08-30-07</b>		<b>87<sup>th</sup> Quarter 11-30-07</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	11.32	717.74	11.34	717.72	12.03	717.03	12.07	716.99
DL-2	731.20	12.92	718.28	12.98	718.22	13.59	717.61	13.63	717.57
DL-3	730.04	11.76	718.28	11.84	718.20	12.44	717.60	12.50	717.54
DL-4	729.76	11.59	718.17	11.67	718.09	12.31	717.45	12.36	717.40
DL-5	729.22	11.37	717.85	11.46	717.74	12.15	717.07	12.19	717.03
DL-6	730.20	9.74	718.57	9.96	718.35	10.54	717.77	10.60	717.71
A-3	730.96	12.59	718.37	12.63	718.33	13.19	717.77	13.26	717.70
A-4	731.07	12.05	719.02	12.94	718.13	13.47	717.60	12.96	718.11
A-5	732.52	14.33	718.19	14.40	718.12	14.99	717.53	15.05	717.47
A-6	728.10	12.87	716.99	12.86	717.00	13.99	715.87	13.75	716.11
A-14	729.66	12.85	716.81	12.04	717.62	12.95	716.71	13.57	716.09
MW-10	730.32	12.51	717.81	13.54	716.78	13.26	717.06	13.33	716.99

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2006**

		<b>80<sup>th</sup> Quarter 03-09-06</b>		<b>81<sup>th</sup> Quarter 06-08-06</b>		<b>82<sup>th</sup> Quarter 09-01-06</b>		<b>83<sup>th</sup> Quarter 12-07-06</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	11.73	717.33	11.46	717.60	12.20	716.86	10.90	718.16
DL-2	731.20	13.32	717.88	13.16	718.04	13.78	717.42	12.48	718.72
DL-3	730.04	12.15	717.89	12.01	718.03	12.58	717.46	11.46	718.58
DL-4	729.76	11.98	717.78	11.83	717.93	12.45	717.31	11.19	718.57
DL-5	729.22	11.62	717.60	11.60	717.62	12.83	716.39	11.01	718.21
DL-6	730.20	11.98	718.04	10.15	718.16	10.70	717.61	9.45	718.86
A-3	730.96	13.92	717.04	12.81	718.15	13.33	717.63	12.27	718.69
A-4	731.07	13.18	717.89	13.07	718.00	14.06	717.01	12.39	718.68
A-5	732.52	14.68	717.84	14.55	717.97	15.11	717.41	13.89	718.16
A-6	728.10	11.52	716.58	12.95	716.91	14.00	715.86	12.58	717.28
A-14	729.66	12.27	717.39	12.06	717.60	13.01	716.65	12.29	717.37
MW-10	730.32	12.96	717.36	12.67	717.65	13.46	716.86	12.14	718.18

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2005**

		<b>76<sup>th</sup> Quarter 03-09-05</b>		<b>77<sup>th</sup> Quarter 06-02-05</b>		<b>78<sup>th</sup> Quarter 09-01-05</b>		<b>79<sup>th</sup> Quarter 12-08-05</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	10.65	718.41	11.83	717.23	12.66	716.40	12.63	716.43
DL-2	731.20	12.34	718.86	13.52	717.68	14.30	716.90	14.19	717.01
DL-3	730.04	11.19	718.85	12.35	717.69	13.13	716.91	13.06	716.98
DL-4	729.76	11.00	718.76	12.19	717.57	12.97	716.79	12.83	716.93
DL-5	729.22	10.74	718.48	11.45	717.77	12.78	716.44	12.74	716.48
DL-6	730.20	11.02	719.00	12.22	717.80	12.97	717.05	12.87	717.15
A-3	730.96	11.95	719.01	13.15	717.81	13.91	717.05	13.79	717.17
A-4	731.07	12.28	718.79	13.43	717.64	14.26	716.81	14.02	717.05
A-5	732.52	13.74	718.78	14.97	717.55	14.13	718.04	14.60	717.92
A-6	728.10	10.43	717.67	11.63	716.47	12.50	715.60	12.60	715.50
A-14	729.66	11.27	718.39	12.44	717.22	12.24	717.42	12.38	717.28
MW-10	730.32	11.84	718.48	13.08	717.24	13.94	716.38	14.05	716.27



**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2004**

		<b>72<sup>nd</sup> Quarter 03-09-04</b>		<b>73<sup>rd</sup> Quarter 06-02-04</b>		<b>74<sup>th</sup> Quarter 09-07-04</b>		<b>75<sup>th</sup> Quarter 12-09-04</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	10.77	718.29	10.37	718.69	11.88	717.18	11.26	717.80
DL-2	731.20	12.37	718.83	11.47	719.73	13.52	717.68	12.83	718.37
DL-3	730.04	11.22	718.82	10.30	719.74	12.37	717.67	11.67	718.37
DL-4	729.76	11.07	718.69	10.15	719.61	12.21	717.55	11.54	718.22
DL-5	729.22	10.93	718.29	9.97	719.25	12.03	717.19	11.42	717.80
DL-6	730.20	11.05	718.97	9.91	720.11	12.24	717.78	11.51	718.51
A-3	730.96	10.93	720.03	10.30	720.66	14.15	716.81	12.45	718.51
A-4	731.07	12.25	718.82	11.40	719.67	13.45	717.62	12.74	718.33
A-5	732.52	13.77	718.75	12.85	719.67	15.02	717.50	14.25	718.27
A-6	728.10	10.70	717.40	9.75	718.35	11.69	716.41	11.28	716.82
A-14	729.66	12.20	717.46	10.91	718.75	12.57	717.09	12.34	717.32
MW-10	730.32	12.09	718.23	11.03	719.29	13.10	717.22	12.52	717.80

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2003**

		<b>68<sup>th</sup> Quarter 03-05-03</b>		<b>69<sup>th</sup> Quarter 06-04-03</b>		<b>70<sup>th</sup> Quarter 09-03-03</b>		<b>71<sup>st</sup> Quarter 12-09-03</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	12.74	716.32	11.68	717.38	12.70	716.36	11.81	717.25
DL-2	731.20	14.33	716.87	13.36	717.84	14.29	716.91	13.46	717.74
DL-3	730.04	13.19	716.85	12.18	717.86	13.11	716.93	12.26	717.78
DL-4	729.76	13.04	716.72	12.04	717.72	12.99	716.77	12.12	717.64
DL-5	729.22	12.84	716.38	11.76	717.46	12.82	716.40	11.96	717.28
DL-6	730.20	13.00	717.02	12.06	717.96	12.99	717.03	12.13	717.89
A-3	730.96	13.90	717.06	12.97	717.99	13.88	717.08	13.05	717.91
A-4	731.07	14.28	717.79	13.28	717.79	14.22	716.85	13.34	717.73
A-5	732.52	15.62	716.90	14.75	717.77	15.65	716.87	14.85	717.67
A-6	728.10	12.68	715.42	11.50	716.60	12.59	715.51	11.75	716.35
A-14	729.66	13.30	716.36	12.20	717.46	13.39	716.27	12.38	717.28
MW-10	730.32	14.01	716.31	12.88	717.44	13.95	716.37	13.05	717.27

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2002**

		<b>64<sup>th</sup> Quarter 03-05-02</b>		<b>65<sup>th</sup> Quarter 06-06-02</b>		<b>66<sup>th</sup> Quarter 09-05-02</b>		<b>67<sup>th</sup> Quarter 12-10-02</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	10.78	718.28	11.03	718.03	12.19	716.87	12.58	716.48
DL-2	731.20	12.13	719.07	12.68	718.52	13.75	717.45	14.16	717.04
DL-3	730.04	11.30	718.74	11.51	718.53	12.59	717.45	13.01	717.03
DL-4	729.76	11.15	718.61	11.36	718.40	12.46	717.30	12.86	716.90
DL-5	729.22	10.92	718.30	11.18	718.04	12.76	716.46	12.70	716.52
DL-6	730.20	11.17	718.85	11.36	718.66	12.51	717.51	12.61	717.41
A-3	730.96	12.07	718.89	12.30	718.66	13.34	717.62	13.78	717.18
A-4	731.07	12.40	718.67	12.64	718.43	13.72	717.35	13.28	717.79
A-5	732.52	13.85	718.67	14.28	718.24	15.17	717.35	15.56	716.96
A-6	728.10	10.66	717.44	10.83	717.27	12.03	716.07	12.54	715.56
A-14	729.66	11.70	717.96	11.63	718.03	12.75	716.91	14.10	715.56
MW-10	730.32	12.04	718.28	12.19	718.13	13.34	716.98	13.86	716.46

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2001**

		<b>60<sup>th</sup> Quarter 03-07-01</b>		<b>61<sup>st</sup> Quarter 06-07-01</b>		<b>62<sup>nd</sup> Quarter 09-05-01</b>		<b>63<sup>rd</sup> Quarter 12-06-01</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	9.98	719.08	10.40	718.66	12.06	717.00	10.98	718.08
DL-2	731.20	11.67	719.53	12.07	719.13	13.63	717.57	12.58	718.61
DL-3	730.04	10.53	719.51	10.91	719.13	12.51	717.53	11.43	718.61
DL-4	729.76	10.37	719.39	10.77	718.99	12.36	717.40	11.27	718.49
DL-5	729.22	10.02	719.20	10.52	718.70	12.14	717.08	11.12	718.10
DL-6	730.20	10.38	719.64	10.78	719.24	12.37	717.65	11.28	718.74
A-3	730.96	11.31	719.65	11.70	719.26	13.27	717.69	12.16	718.80
A-4	731.07	11.58	719.49	11.98	719.09	13.57	717.50	12.51	718.56
A-5	732.52	13.06	719.46	13.48	719.04	14.98	717.54	13.99	718.53
A-6	728.10	9.79	718.31	10.14	717.96	11.93	716.17	10.91	717.19
A-14	729.66	10.67	718.99	11.13	718.53	12.63	717.03	11.83	717.83
MW-10	730.32	11.17	719.15	11.57	718.75	13.25	717.07	12.18	718.14

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
2000**

		<b>56<sup>th</sup> Quarter 03-02-00</b>		<b>57<sup>th</sup> Quarter 06-06-00</b>		<b>58<sup>th</sup> Quarter 09-06-00</b>		<b>59<sup>th</sup> Quarter 12-06-00</b>	
<b>Well Number</b>	<b>T.O.C. Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>	<b>Depth to Water</b>	<b>Water Table Elevation</b>
DL-1	729.06	12.52	716.54	11.41	717.65	12.34	716.72	11.48	717.58
DL-2	731.20	13.93	717.27	12.47	718.73	13.98	717.22	13.13	718.07
DL-3	730.04	12.78	717.26	11.31	718.73	12.83	717.21	11.99	718.05
DL-4	729.76	12.67	717.09	11.17	718.59	12.69	717.07	11.83	717.93
DL-5	729.22	12.65	716.57	11.53	717.69	12.45	716.77	11.59	717.63
DL-6	730.20	12.59	717.43	11.21	718.81	12.71	717.31	11.86	718.16
A-3	730.96	13.50	717.46	12.14	718.82	13.60	717.36	12.77	718.19
A-4	731.07	13.82	717.25	12.38	718.39	13.92	717.15	13.04	718.03
A-5	732.52	15.45	717.07	14.41	718.11	15.39	717.13	14.55	717.97
A-6	728.10	12.63	715.47	11.28	716.82	12.11	715.99	11.31	716.79
A-14	729.66	13.27	716.39	11.34	718.32	13.08	716.58	12.21	717.45
MW-10	730.32	13.78	716.54	11.96	718.36	13.62	716.70	12.70	717.62

**Summary of Groundwater Elevations  
RCRA Monitoring Wells  
Drug & Laboratory Disposal, Inc.  
Plainwell, Michigan**

		03-02-99 (52 <sup>nd</sup> Quarter)		06-02-99 (53 <sup>rd</sup> Quarter)		09-01-99 (54 <sup>th</sup> Quarter)		12-08-99 (55 <sup>th</sup> Quarter)	
Well Number	T.O.C. Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation	Depth to Water	Water Table Elevation
DL-1	729.06	11.92	717.14	11.76	717.30	12.70	716.36	12.71	716.35
DL-2	731.20	12.47	718.73	13.35	717.85	14.25	716.95	14.19	717.01
DL-3	730.04	12.31	717.73	12.21	717.83	13.10	716.94	13.04	717.00
DL-4	729.76	12.20	717.56	12.08	717.68	12.98	716.78	12.95	716.81
DL-5	729.22	12.04	717.18	11.89	717.33	12.83	716.39	12.83	716.39
DL-6	730.02	12.18	717.84	12.07	717.95	12.95	717.07	12.86	717.16
A-3	730.96	13.10	717.86	12.99	717.97	13.86	717.10	13.78	717.18
A-4	731.07	13.39	717.68	13.29	717.78	14.19	716.88	14.11	716.96
A-5	732.52	14.91	717.61	14.78	717.74	16.65	716.87	15.56	716.96
A-6	728.10	*	*	*	*	12.60	715.5	12.85	715.25
A-14	729.66	12.61	717.05	12.49	717.17	13.40	716.26	13.58	716.08
MW-10	730.32	*	*	*	*	13.95	716.37	14.01	716.31

\*Not required by 02-05-86 Operating License