**PUBLIC WORKS COMMITTEE**
**CITY HALL CONFERENCE ROOM**
**MARCH 9, 2015**
**5:00 P.M.**

AGENDA

I. CALL TO ORDER

II. CONSENT AGENDA
   A. Minutes (page 1)

III. NEW BUSINESS
   A. 2014 Frozen Water Service Line Policy (page 5)

IV. OLD BUSINESS
   A. Water Plant Rehab Project - Change Order - Update
   B. Street Repair – Mill St. from Stearns Ave. to Lake Ave. - Update
   C. Regional Storm Water Pond/2016 Project – Update
   D. MPCA - Former Mid-Town Service Station (page 6)

V. INFORMATIONAL

***** Please call or email Ron at 320-243-3714 ext. 230 or at ron@paynesvillemn.com if you are not able to attend the meeting.*****

**Members: Dave Peschong, Neil Herzberg, Melvin Schaefer, Keith Hemmesch, and Matt Quade – or his proxy.**
**Advisory Members: Chuck DeWolf, Ron Mergen, and Renee Eckerly**

This agenda has been prepared to provide information regarding an upcoming meeting of the Paynesville Public Works Committee. This document does not claim to be complete and is subject to change.

**BARRIER FREE:** All Paynesville Public Works Committee meetings are accessible to the handicapped. Attempts will be made to accommodate any other individual need for special services. Please contact City Hall (320) 243-3714 early so necessary arrangements can be made.

## REQUEST FOR COMMITTEE/COUNCIL ACTION

**COMMITTEE/COUNCIL NAME: Public Works Committee**

Committee/Council Meeting Date: March 9, 2015

Agenda Section: Consent

Originating Department:

Item Number: II - A

**ITEM DESCRIPTION: Minutes**

Prepared by: Staff

**COMMENTS:**

Please review the minutes from the February 9, 2015 Public Works Committee meeting.

**ADMINISTRATOR COMMENTS:**

**COMMITTEE/COUNCIL ACTION:**

Motion to approve the minutes of the February 9, 2015 Public Works Committee meeting.

**MINUTES**
**PUBLIC WORKS COMMITTEE**

**FEBRUARY 9, 2015**

The meeting was called to order by Chairperson Mel Schaefer at 5:00 p.m. Members present were Neil Herzberg, Matt Quade, Dave Peschong, and Keith Hemmesch. Advisory members present were Ron Mergen, Public Works Director and Chuck DeWolf, Bolton & Menk, Inc.

> **Motion was made by Peschong to approve the minutes from the January 12, 2015 Public Works Committee meeting. Seconded by Quade and unanimously carried.**

## CRACK SEALING

Three quotes were presented with the low price of $1.49 per pound from Glieden Enterprises, which is for 5,000 pounds of material at an estimated total cost of $7,456.00. The other prices were from Shreffler at $1.55 per pound and Pavement Resources at $2.55 per pound. The City has, in the past, worked with Paynesville Township and the City of Melrose, but due to labor constraints the Public Works Department is suggesting to sub contract out the project this year.

> **Motion was made by Hemmesch to approve the quote from Glieden Enterprises, which is for 5,000 pounds of material at an estimated total cost of $7,456.00 for the crack sealing project and recommend such to the City Council. Seconded by Quade and unanimously carried.**

## SEAL COAT PROJECT

Members reviewed a map of the project areas that includes the downtown area, streets from the 2008 project, and streets South of Hwy. 55 that are not scheduled for an overlay for the next seven years. It was also noted that the Public Works Department is proposing to add a TAC coat over the top similar to the State and County specifications, as this adds an extra coat of oil and holds the rock in place. After a short discussion,

> **Motion was made by Quade to advertise for bids and recommend such to the City Council. Seconded by Peschong and unanimously carried.**

## STREET SIGNS

Members reviewed the existing signage and the newly installed signage along Business 23, noting the differences of:

1. The County street signs have 6" lettering on a 9" sign
2. The City street signs have 4" lettering on a 6" sign
3. The County street signs are located on the tops of the stop signs
4. The City street signs are on separate poles

It was commented that the larger signs are definitely easier to read and by installing the signs on top of the stop signs it cleans up the intersections. The cost difference is $20.00 per intersection more for the larger signs and if the City would replace 10 per year that would be

$200.00 per year or less due to not purchasing the "U" post which the street signs are mounted on.

**Motion was made by Quade to change the sign standard to the 6" lettering on a 9" sign and install them on top the stop signs and recommend such to the City Council. Seconded by Peschong and unanimously carried.**

## STREET REPAIR - MILL STREET FROM STEARNS AVENUE TO LAKE AVENUE

It was reported the street is unraveling. DeWolf commented that it appears that the mix is letting loose. The street was construction in 2000 and seal coated in a timely manner in 2007. It was suggested to have a core sample taken and bring it back to the next meeting for further review.

## WATER PLANT REHAB

DeWolf reported on the construction progress; noting the standby power unit will be put on line with additional training to be scheduled.

## EQUIPMENT UPGRADES – PICKUP TRUCK

Pickup truck prices were solicited from both local dealerships, with only Yarmon Ford submitting a bid of $29,272.00. It was reported that the Public Works Department is requesting to replace the 1999 F250 pickup which has approximately 200,000 miles on and was utilized on the irrigation system. It is recommended to be replaced with a ¾ ton extended cab with a flat bed and tool box on the driver's side. After a short discussion,

**Motion was made by Quade to approve the bid from Yarmon Ford in the amount of $29,272.00 and recommend such to the City Council. Seconded by Peschong and unanimously carried.**

## UTILITY BOX

Members reviewed the prices for the new utility box and crane with the low price from Aspen Equipment in the amount of $22,464.00. The other quote was submitted by Bayer Truck & Equipment in the amount of $23,500.00; they also submitted a price for a used unit in the amount of $17,000.00.

The Committee also discussed a Tommy Gate versus a crane. It was commented that the crane can be utilized for many more tasks, lifting irrigation tires, gear boxes, lift station pumps, etc. whereas the Tommy Gate usage would be limited.

It was further reported that the City would be applying for a safety grant in the amount up to $10,000.00 to help offset the costs.

**Motion was made by Quade to approve the quote from Aspen Equipment in the amount of $22,464.00 for a crane and recommend such to the City Council. Seconded by Hemmesch and unanimously carried.**

## REGIONAL STORM WATER POND

DeWolf reported that the City did not receive the grant to construct the pond. A meeting has been scheduled to meet with Stearns County Soil & Water and BWSR to see where the City can improve on the application. In addition, the City should know in March if it received the grant to reconstruct Lake Ave. and Minnie St.

## AMPI POLISHER

Quade gave a brief explanation of the polisher unit that AMPI is installing. AMPI's final rinse water will be treated to potable water and either reused or discharged directly to the river. An anticipated reduction in flow could be as high as 70,000 gallons per day.

There being no further business, the meeting was adjourned at 5:40 p.m.

# City of Paynesville
# Frozen Water Service Line Policy

Frozen water service lines between the curb stop and the building shall be the responsibility of the property owner. Frozen water service line between the water main and the curb stop shall be the responsibility of City.

For the purpose of preventing frozen water service line regardless of where the service line may freeze the City recommends all users monitor the temperature of their cold water tap and if it reaches 40 degrees or less to run a ¼ in or pencil width stream of water.

The City will issue a credit to the account in the form of utilizing the customers previous year's usage in the same billing period. The customer must notify the City in order to receive the credit; this is to verify that the problem indeed does exist.

Adopted by the Paynesville City Council on March 24, 2014.

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Jeff Thompson, Mayor

**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***MONITORING WELLS*** | | | | | | | | | | | |
| DW-1 | G | 03/05/98 | <1 | <1 | <1 | <3 | <5 | <5 | <1 | - | - |
| DW-1 | | 03/25/98 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| DW-1 | G | 06/13/98 | <1 | <1 | <1 | <3 | - | <5 | <1 | - | - |
| DW-1 | | 06/13/98 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-2 | G | 03/06/98 | <1 | <1 | <1 | <3 | <5 | <5 | **20** | - | - |
| DW-2 | | 03/25/98 | <0.30 | <0.30 | <0.50 | <0.80 | <1.0 | <0.40 | <0.50 | - | - |
| DW-2 | G | 06/13/98 | <1 | <1 | <1 | <3 | - | <5 | <1 | - | - |
| DW-2 | | 06/13/98 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-3 | G | 03/16/98 | <1 | <1 | <1 | <3 | <5 | <5 | <1 | - | - |
| DW-3 | | 03/25/98 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| DW-3 | G | 06/13/98 | <1 | <1 | <1 | <3 | - | <5 | <1 | - | - |
| DW-3 | | 06/13/98 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-3 | | 09/22/99 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 12/09/99 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 04/20/00 | <1.0 | **2.2** | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 07/27/00 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 10/20/00 | **4.9** | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 01/16/01 | <1.0 | **4.4** | <1.0 | **3.0** | <5.0 | - | - | <100 | - |
| DW-3 | 2 | 04/12/01 | <1.0 | **6.1** | <1.0 | <3.0 | <5.0 | - | - | **400** | - |
| DW-3 | | 08/13/01 | **17** | <1.0 | <1.0 | <3.0 | <5.0 | <5.0 | <5.0 | <100 | - |
| DW-3 | | 10/09/01 | **25** | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 11/19/01 | **24** | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 01/29/02 | **6.8** | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 04/16/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 08/19/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 11/05/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 01/17/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 04/04/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 07/24/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 10/28/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 02/04/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 04/07/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 08/24/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 02/16/05 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3 | | 11/02/05 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-3 | | 05/04/06 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-3 | | 05/05/06 | Sealed and replaced as part of road reconstruction | | | | | | | | |
| DW-3R | | 05/03/07 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-3R | | 09/25/07 | <1.0 | **1.0** | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <50 | - |
| DW-3R | | 02/13/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <5.0 | <1.0 | <50 | - |
| DW-3R | | 11/12/08 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 02/12/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 08/11/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 02/03/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 10/29/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 03/03/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 09/15/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 03/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 08/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloroethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DW-3R | | 06/11/13 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 01/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-3R | | 06/03/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-4 | G | 03/16/98 | <1 | <1 | <1 | <3 | <5 | <5 | <1 | - | - |
| DW-4 | | 03/25/98 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| DW-4 | G | 06/13/98 | <1 | <1 | <1 | <3 | - | <5 | <1 | - | - |
| DW-4 | | 06/13/98 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-5 | | 12/24/98 | 1,600 | 81 | 64 | 41 | <5.0 | - | - | 2,800 | - |
| DW-5 | | 12/30/98 | 1,300 | 47 | 51 | 41 | 44 | - | - | 1,700 | - |
| DW-5 | | 01/25/99 | 600 | 28 | 41 | 41 | 5.4 | - | - | 1,100 | - |
| DW-5 | | 02/18/99 | 400 | 13 | 25 | <5.0 | <25 | - | - | 550 | - |
| DW-5 | | 03/17/99 | 360 | 13 | 22 | 17 | <5.0 | - | - | 610 | - |
| DW-5 | | 04/22/99 | 240 | <1.0 | 13 | 18 | <5.0 | - | - | 590 | - |
| DW-5 | * | 05/21/99 | 160 | 8.7 | 14 | 13 | <1.0 | - | 5.8 | - | - |
| DW-5 | | 06/24/99 | 170 | 6.2 | 9.9 | 8.9 | <5.0 | - | - | 280 | - |
| DW-5 | | 07/19/99 | 170 | 5.7 | 11 | 11 | <5.0 | - | - | 300 | - |
| DW-5 | | 08/23/99 | 160 | 6.2 | 12 | 8.9 | 5.3 | - | - | 280 | - |
| DW-5 | | 09/22/99 | 170 | 5.7 | 11 | 8.6 | <5.0 | - | - | 280 | - |
| DW-5 | | 10/25/99 | 160 | 5.8 | 12 | 10 | <5.0 | - | - | 260 | - |
| DW-5 | | 11/24/99 | 150 | 5.8 | 11 | 10 | 5.2 | - | - | 250 | - |
| DW-5 | | 12/09/99 | 140 | 5.7 | 12 | 9.7 | <5.0 | - | - | 230 | - |
| DW-5 | | 01/13/00 | 140 | 10 | 12 | 15 | <130 | - | - | 290 | - |
| DW-5 | | 02/17/00 | 150 | 5.5 | 12 | 11 | <5.0 | - | - | 270 | - |
| DW-5 | | 03/13/00 | 140 | 4.3 | 11 | 9 | <5.0 | - | - | 220 | - |
| DW-5 | | 04/20/00 | 140 | 8 | 11 | 13 | 6.7 | - | - | 320 | - |
| DW-5 | | 05/23/00 | 96 | 3.6 | 8.2 | 7.8 | <5.0 | - | - | 180 | - |
| DW-5 | | 06/17/00 | 150 | 4.9 | 11 | 10 | <5.0 | - | - | 270 | - |
| DW-5 | | 07/27/00 | 130 | 4 | 9.2 | 9.8 | <5.0 | - | - | 210 | - |
| DW-5 | | 10/20/00 | 57 | 2.1 | 5.5 | 6 | <5.0 | - | - | 120 | - |
| DW-5 | | 01/16/01 | 79 | 3.3 | 7.7 | 9.9 | <5.0 | - | - | 170 | - |
| DW-5 | | 04/12/01 | 44 | <1.0 | 6 | 9.2 | <5.0 | - | - | 130 | - |
| DW-5 | | 08/13/01 | 68 | 1.5 | 8 | 9 | <5.0 | - | - | 190 | - |
| DW-5 | | 10/09/01 | 81 | 1.9 | 9.7 | 7.9 | <5.0 | - | - | 180 | - |
| DW-5 | | 01/29/02 | 7 | <1.0 | 1.3 | <3.0 | <5.0 | - | - | <100 | - |
| DW-5 | | 04/16/02 | 98 | 1.6 | 16 | 12 | <5.0 | - | - | 260 | - |
| DW-5 | | 11/05/02 | 110 | <1.0 | 5.3 | 7.1 | <5.0 | - | - | 170 | - |
| DW-5 | | 01/16/03 | 230 | <1.0 | 9 | 10 | <5.0 | - | - | 310 | - |
| DW-5 | | 04/04/03 | 350 | 1.2 | 20 | 20 | <5.0 | - | - | 530 | - |
| DW-5 | | 07/24/03 | 280 | 1.1 | 29 | 16 | 6.0 | - | - | 670 | - |
| DW-5 | | 10/28/03 | 470 | 1.3 | 20 | 11 | <5.0 | - | - | 610 | - |
| DW-5 | | 02/04/04 | 470 | <1.0 | 25 | 18 | <5.0 | - | - | 650 | - |
| DW-5 | | 04/07/04 | 400 | 1.3 | 30 | 25 | <5.0 | - | - | 630 | - |
| DW-5 | | 08/24/04 | 230 | <1.0 | 10 | 18 | <5.0 | - | - | 510 | - |
| DW-5 | | 02/16/05 | 180 | 2.1 | 31 | 39 | <5.0 | - | - | 400 | - |
| DW-5 | | 11/03/05 | 160 | 2.3 | 30 | 25 | <1.0 | - | - | 350 | - |
| DW-5 | | 05/04/06 | 180 | 1.5 | 32 | 32 | 1.3 | - | - | 440 | - |
| DW-5 | 5 | 12/14/06 | 74 | <1.0 | 42 | 19 | 1.6 | - | - | 260 | - |
| DW-5 | 5 | 03/20/07 | 64 | <1.0 | 55 | 19 | 1.8 | - | - | 260 | - |
| DW-5 | 6 | 09/25/07 | 100 | 2.3 | 43 | 29 | <1.0 | - | - | 410 | - |
| DW-5 | 6 | 02/12/08 | 79 | <1.0 | 32 | 28 | <1.0 | - | - | 270 | - |
| DW-5 | | 11/10/08 | 12.3 | <1.0 | 12.5 | 7.5 | <5.0 | - | - | <100 | - |

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**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DW-5 | | 02/11/09 | 58.8 | <1.0 | 11.5 | 16.8 | <5.0 | - | - | 186 | - |
| DW-5 | | 08/11/09 | 18.4 | <1.0 | 15.3 | 14.9 | <5.0 | - | - | <100 | - |
| DW-5 | | 02/04/10 | 38.1 | <1.0 | 24.4 | 6.9 | <5.0 | - | - | <100 | - |
| DW-5 | | 10/28/10 | 51.5 | 1.8 | 14.9 | 15.6 | <5.0 | - | - | 161 | - |
| DW-5 | | 03/03/11 | 20.4 | <1.0 | 22.1 | 23.1 | <5.0 | - | - | 162 | - |
| DW-5 | | 09/15/11 | Not sampled due to pump not functioning | | | | | | | | |
| DW-5 | | 03/21/12 | 2.7 | <1.0 | 22.4 | 12.0 | <5.0 | - | - | <100 | - |
| DW-5 | | 08/21/12 | 20.5 | <1.0 | 10.3 | <3.0 | <5.0 | - | - | <100 | - |
| DW-5 | | 06/11/13 | 1.9 | <1.0 | 14.9 | 10.1 | <5.0 | - | - | 102 | - |
| DW-5 | | 01/13/14 | <1.0 | <1.0 | 14.6 | 20.5 | <5.0 | - | - | 107 | - |
| DW-5 | | 06/03/14 | <1.0 | <1.0 | 5.2 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | G | 08/20/98 | 330 | <100 | <100 | <300 | - | <500 | <100 | - | - |
| DW-6 | | 04/05/99 | 140 | 3.9 | 29 | 17.4 | - | - | - | 720 | 150 |
| DW-6 | | 06/21/99 | 120 | 2.1 | 25 | 14 | - | - | - | 660 | 100 |
| DW-6 | | 09/22/99 | 99 | 1.4 | 16 | 9.3 | 10 | - | - | 400 | - |
| DW-6 | | 12/09/99 | 84 | 5.3 | 20 | 29 | 20 | - | - | 570 | - |
| DW-6 | | 04/20/00 | 170 | 1.6 | 9.8 | 24 | 13 | - | - | 760 | - |
| DW-6 | | 07/27/00 | 51 | 1.6 | 9.8 | 13 | <5.0 | - | - | 260 | - |
| DW-6 | | 10/20/00 | 40 | <1.0 | 10 | 7.3 | 6.2 | - | - | 370 | - |
| DW-6 | | 01/16/01 | 93 | 1.5 | 5.0 | 17 | 5.1 | - | - | 420 | - |
| DW-6 | | 04/12/01 | 86 | <1.0 | 2.8 | 15 | 7.7 | - | - | 290 | - |
| DW-6 | | 08/13/01 | 110 | <1.0 | 3.2 | 16 | 6.6 | - | - | 300 | - |
| DW-6 | | 10/09/01 | 50 | <1.0 | 3.5 | 4.2 | <5.0 | - | - | 180 | - |
| DW-6 | | 01/29/02 | 120 | 1.1 | 7.0 | 21 | 5.6 | - | - | 340 | - |
| DW-6 | | 04/16/02 | 93 | <1.0 | 4.7 | 19 | 5.8 | - | - | 290 | - |
| DW-6 | | 08/19/02 | 160 | 1.1 | 2.7 | 16 | 5.1 | - | - | 360 | - |
| DW-6 | | 11/05/02 | 130 | <1.0 | 2.1 | 17 | <5.0 | - | - | 290 | - |
| DW-6 | | 01/17/03 | 76 | <1.0 | 2.4 | 7.8 | <5.0 | - | - | 180 | - |
| DW-6 | | 04/04/03 | 23 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 07/24/03 | 17 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 10/28/03 | 48 | <1.0 | 1.7 | 5.3 | <5.0 | - | - | 150 | - |
| DW-6 | | 02/04/04 | 45 | <1.0 | 1.8 | <3.0 | <5.0 | - | - | 120 | - |
| DW-6 | | 04/07/04 | 32 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | 130 | - |
| DW-6 | | 08/24/04 | 29 | <1.0 | 1.6 | <3.0 | <5.0 | - | - | 140 | - |
| DW-6 | | 02/16/05 | 33 | <1.0 | 2.4 | <3.0 | 5.3 | - | - | 170 | - |
| DW-6 | | 11/03/05 | 28 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | 63 | - |
| DW-6 | | 05/04/06 | 27 | <1.0 | 1.7 | <3.0 | <1.0 | - | - | 71 | - |
| DW-6 | | 12/01/06 | 22 | <0.36 | 2.5 | 2.7 | 1.2 | - | - | 80 | - |
| DW-6 | 6 | 03/20/07 | 24 | <1.0 | 2.8 | 2.4 | 1.1 | - | - | 100 | - |
| DW-6 | | 09/25/07 | 16 | <1.0 | 1.5 | <3.0 | <1.0 | - | - | <50 | - |
| DW-6 | | 02/13/08 | 11 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-6 | | 11/11/08 | 8.5 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 02/11/09 | 10 | <1.0 | 1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 08/11/09 | 6.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 02/04/10 | 6.6 | <1.0 | 1.1 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 10/28/10 | 8.3 | <1.0 | 1.2 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 03/03/11 | 5.9 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 09/15/11 | 5.7 | <1.0 | 1.1 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 03/21/12 | 9.3 | <1.0 | 1.8 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 08/21/12 | 4.7 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 06/11/13 | 5.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-6 | | 01/14/14 | 5.4 | <1.0 | 1.1 | <3.0 | <5.0 | - | - | <100 | - |

**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DW-6 | | 06/03/14 | 4.2 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 05/11/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | <100 | - |
| DW-7S | 3 | 08/13/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | <100 | - |
| DW-7S | | 10/09/01 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 01/29/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 04/16/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 11/05/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 04/03/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 10/28/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 04/07/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 02/16/05 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 11/02/05 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7S | | 05/04/06 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7S | | 11/30/06 | <0.14 | <0.36 | <0.40 | <1.1 | <0.36 | - | - | <26 | - |
| DW-7S | | 03/20/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7S | | 09/25/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7S | | 11/11/08 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 08/11/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 10/29/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 03/03/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 09/15/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 08/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7S | | 01/13/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 05/11/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | <100 | - |
| DW-7D | 3 | 08/13/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | <100 | - |
| DW-7D | | 10/09/01 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 01/29/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 04/16/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 11/05/02 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 04/03/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 10/28/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 04/07/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 02/16/05 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 11/02/05 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7D | | 05/04/06 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7D | | 11/30/06 | <0.14 | <0.36 | <0.40 | <1.1 | <0.36 | - | - | <26 | - |
| DW-7D | | 03/20/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7D | | 09/25/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-7D | | 11/11/08 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 08/11/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 10/29/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 03/03/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 09/15/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 08/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-7D | | 01/13/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 05/03/07 | 7.6 | <1.0 | <1.0 | <3.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-8 | | 09/25/07 | 3.1 | <1.0 | <1.0 | <3.0 | <1.0 | <1.0 | <1.0 | <50 | - |
| DW-8 | | 02/13/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| DW-8 | | 11/11/08 | 2.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 02/12/09 | 1.2 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41967016**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DW-8 | | 08/11/09 | 6.3 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 02/04/10 | 9.4 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 10/29/10 | 9.4 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 03/03/11 | 8.5 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 09/15/11 | 9.5 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 03/21/12 | 14.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 08/22/12 | 16.5 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 11/05/12 | 13.5 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 04/09/13 | 8.7 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 06/11/13 | 10.1 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 08/28/13 | 5.2 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <100 | - |
| DW-8 | | 01/13/14 | 2.9 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <100 | - |
| DW-8 | | 04/08/14 | 3.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 06/03/14 | 2.6 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 08/26/14 | 2.4 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8 | | 12/16/14 | 2.1 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 12/29/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-8S | 3 | 02/12/09 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-8S | | 02/12/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 08/11/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 02/04/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 10/29/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 03/03/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 09/15/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 03/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 08/22/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 06/11/13 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 01/13/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-8S | | 06/03/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-9 | 4, 1 | 05/03/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <1.0 | <1.0 | - | - |
| DW-9 | 1, 5 | 09/25/07 | 1,000 | 93 | 150 | 61 | <25 | <120 | <25 | 3,000 | - |
| DW-9 | 5 | 02/13/08 | 1,200 | <10 | 200 | <30 | <10 | - | - | 4,300 | - |
| DW-9 | | 11/11/08 | 797 | 21.6 | 335 | 5.4 | <5.0 | - | - | 3,730 | - |
| DW-9 | | 02/12/09 | 1,330 | <5.0 | 256 | <15.0 | <25.0 | - | - | 3,920 | - |
| DW-9 | | 08/11/09 | 5.2 | <1.0 | 6.9 | <3.0 | 16.4 | - | - | 1,430 | - |
| DW-9 | | 02/04/10 | 1,690 | <5.0 | 144 | <15.0 | <25.0 | - | - | 3,980 | - |
| DW-9 | | 10/28/10 | 924 | <5.0 | 169 | <15.0 | <25.0 | - | - | 3,040 | - |
| DW-9 | | 03/04/11 | <1.0 | 1.1 | 38.5 | 3.9 | 23.2 | - | - | 2,610 | - |
| DW-9 | | 09/16/11 | 7.9 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | 318 | - |
| DW-9 | | 03/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-9 | | 08/22/12 | 4.1 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-9 | | 11/05/12 | 1,340 | 193 | 359 | 218.2 | 5.9 | - | - | 4,240 | - |
| DW-9 | | 04/09/13 | 1,530 | <5.0 | 273 | 18.4 | 42.0 | - | - | 4,930 | - |
| DW-9 | | 06/11/13 | 563 | <5.0 | 163 | <15.0 | 38.2 | - | - | 2,840 | - |
| DW-9 | | 08/29/13 | 1,170 | 31.2 | 276 | 46.7 | <10.0 | - | - | 3,600 | - |
| DW-9 | | 01/14/14 | 503 | <5.0 | 420 | <15.0 | 33.6 | - | - | 3,840 | - |
| DW-9 | | 04/08/14 | 511 | 21.4 | 386 | 27.5 | 25.2 | - | - | 4,630 | - |
| DW-9 | | 06/05/14 | 364 | <5.0 | 339 | <15.0 | <25.0 | - | - | 3,680 | - |
| DW-9 | | 08/26/14 | 1030 | 33.5 | 343 | 46.5 | <25.0 | - | - | 4,970 | - |
| DW-9 | | 12/17/14 | 577 | 2.7 | 273 | 5.9 | 25.7 | - | - | 3,710 | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DW-10A | | 08/22/12 | <1.0 | <1.0 | 16.5 | 8.2 | <1.0 | <4.0 | <1.0 | 1,290 | - |
| DW-10A | | 11/05/12 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | 676 | - |
| DW-10A | | 04/09/13 | <1.0 | <1.0 | <1.0 | <3.0 | 29.4 | - | - | 844 | - |
| DW-10A | | 06/11/13 | <1.0 | 1.1 | 1.2 | <3.0 | 26.6 | - | - | 597 | - |
| DW-10A | | 08/29/13 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | 473 | - |
| DW-10A | | 01/14/14 | <1.0 | <1.0 | <1.0 | <3.0 | 10.2 | - | - | 400 | - |
| DW-10A | | 04/08/14 | 3.9 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | 281 | - |
| DW-10A | | 06/04/14 | 5.7 | <1.0 | 1.1 | <3.0 | 8.6 | - | - | 489 | - |
| DW-10A | | 08/26/14 | 5.2 | <1.0 | 1.4 | <3.0 | 9.6 | - | - | 588 | - |
| DW-10A | | 12/17/14 | 5.7 | 1.0 | 1.0 | <3.0 | 5.6 | - | - | 499 | - |
| DW-10B | | 08/22/12 | 31.2 | 11.0 | 129 | 25.9 | <1.0 | <4.0 | <1.0 | 706 | - |
| DW-10B | | 11/05/12 | 32.9 | 14.3 | 115 | 9.2 | <1.0 | <4.0 | <1.0 | 797 | - |
| DW-10B | | 04/09/13 | 27.5 | 9.1 | 110 | 6.6 | 15.4 | - | - | 811 | - |
| DW-10B | | 06/12/13 | 35.3 | 21.7 | 139 | 23.8 | 23.5 | - | - | 1,340 | - |
| DW-10B | | 08/28/13 | 13.6 | 7.7 | 102 | 9.2 | <1.0 | <4.0 | <1.0 | 712 | - |
| DW-10B | | 01/14/14 | 18.1 | 4.8 | 86.5 | 12.5 | 11.6 | - | - | 676 | - |
| DW-10B | | 04/08/14 | 12.7 | 4 | 74.1 | 9.6 | 6.7 | - | - | 607 | - |
| DW-10B | | 06/04/14 | 13.3 | 5.4 | 70.2 | 10.6 | 23.2 | - | - | 462 | - |
| DW-10B | | 08/28/14 | 13.9 | 4.4 | 75.2 | 17.3 | 7.7 | - | - | 754 | - |
| DW-10B | | 12/17/14 | 11.3 | 5.1 | 66.9 | 18.1 | 11.6 | - | - | 633 | - |
| DW-10C | | 08/22/12 | 5.5 | 3.3 | 2.1 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-10C | | 11/05/12 | 6.9 | 1.0 | 1.7 | <3.0 | <1.0 | <4.0 | 1.4 | <100 | - |
| DW-10C | | 04/09/13 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-10C | | 06/12/13 | 29.3 | 4.0 | 6.5 | <3.0 | <5.0 | - | - | 126 | - |
| DW-10C | | 08/28/13 | 59.1 | 1.7 | 1.8 | <3.0 | <1.0 | <4.0 | 3.7 | 130 | - |
| DW-10C | | 01/14/14 | 21.1 | 1.1 | <1.0 | <3.0 | <1.0 | <4.0 | 3.5 | <100 | - |
| DW-10C | | 04/08/14 | 16.5 | 1.1 | <1.0 | <3.0 | <1.0 | <4.0 | 2.8 | <100 | - |
| DW-10C | | 06/04/14 | 4.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | 2.1 | <100 | - |
| DW-10C | | 08/28/14 | 34.4 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | 2.8 | <100 | - |
| DW-10C | | 12/17/14 | 53.3 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | 2.9 | 133 | - |
| DW-11 | | 08/29/13 | 36.2 | 55.5 | 257 | 906 | <1.0 | 154 | <1.0 | 5,730 | - |
| DW-11 | | 01/14/14 | 43.2 | 95.7 | 267 | 808 | <1.0 | 128 | <1.0 | 4,320 | - |
| DW-11 | | 04/08/14 | 25.9 | 65.2 | 298 | 1000 | <25.0 | - | - | 4,900 | - |
| DW-11 | | 06/04/14 | 21.9 | 11.2 | 115 | 362 | <25.0 | - | - | 3,340 | - |
| DW-11 | | 08/27/14 | 52.2 | 51.4 | 260 | 890 | <25.0 | - | - | 5,330 | - |
| DW-11 | | 12/17/14 | 52.3 | 91.5 | 142 | 394 | 51.1 | - | - | 6,890 | - |
| DW-12 | | 04/08/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-12 | | 06/04/14 | 1.3 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-12 | | 08/27/14 | 1.3 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-12 | | 12/16/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-13A | | 04/08/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-13A | | 06/02/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-13A | | 08/26/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-13A | | 12/16/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-13B | | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-13B | 1 | 06/02/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-13B | | 08/26/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |

**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| DW-13B | 12/16/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-13C | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-13C | 06/03/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-13C | 08/26/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-13C | 12/16/14 | <2.0 | <2.0 | <2.0 | <6.0 | <10.0 | - | - | <200 | - |
| DW-14 | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-14 | 06/03/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-14 | 08/26/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-14 | 12/16/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-15A | 04/09/14 | **168** | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | **236** | - |
| DW-15A | 06/02/14 | **23.3** | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-15A | 08/28/14 | **3.2** | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-15A | 12/16/15 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-15B | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-15B | 06/04/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-15B | 08/28/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-15B | 12/16/14 | <2.0 | <2.0 | <2.0 | <6.0 | <10.0 | - | - | <200 | - |
| DW-15C | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-15C | 06/03/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-15C | 08/28/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-15C | 12/16/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-16 | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | **132** | **130** |
| DW-16 | 06/05/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | **160** |
| DW-16 | 08/27/14 | **1.8** | <1.0 | <1.0 | <3.0 | <5.0 | - | - | **111** | - |
| DW-16 | 12/17/14 | **2.5** | <1.0 | **2.3** | **10.4** | <5.0 | - | - | <100 | - |
| DW-17 | 04/09/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-17 | 06/03/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-17 | 08/27/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-17 | 12/17/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| DW-18 | 06/05/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-18 | 08/27/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-18 | 12/17/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| DW-19 | 11/26/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | <110 |
| DW-19 | 12/16/14 | **7.4** | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | <110 |
| DW-19 | 01/26/15 | **5.1** | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | **210** |
| BEI-MW-2 | 03/25/98 | <0.30 | **0.61** | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | **170** |
| MW-1 | 7/17/91 | **4,000** | **8,800** | **2,000** | **9,600** | **2,700** | - | - | **50,000** | **73,000** |
| MW-1 | 8/13/91 | **3,800** | **8,700** | **2,200** | **8,900** | **11,000** | - | - | **87,000** | - |
| MW-1 | 1/13/92 | **5,100** | **8,400** | **2,700** | **6,800** | **2,000** | - | - | **63,000** | - |
| MW-1 | 3/30/93 | **560** | **1,800** | **400** | **3,000** | ND | - | - | **17,000** | **43,000** |
| MW-1 | 6/1/93 | **1,000** | **3,000** | **750** | **3,480** | ND | - | - | **300** | - |
| MW-1 | 9/21/93 | **350** | **1,900** | ND | **2,680** | **1,500** | - | - | **20,000** | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41967018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | | 12/23/93 | ND | ND | ND | ND | ND | - | - | 140 | - |
| MW-1 | | 12/1/94 | 1,180 | 1,600 | 602 | 2,380 | ND | - | - | 13,400 | - |
| MW-1 | | 09/16/11 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-1 | | 3/21/12 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-1 | | 8/23/12 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-1 | | 06/12/13 | 10.7 | 10.9 | 20.9 | 251 | <50.0 | - | - | 13,600 | - |
| MW-1 | | 06/12/13 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-1 | | 1/15/14 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-1 | | 6/3/14 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-10 | | 7/17/91 | ND | ND | ND | ND | ND | - | - | 7 | ND |
| MW-10 | | 8/13/91 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-10 | | 1/13/92 | 7 | 2 | ND | ND | 34 | - | - | 150 | - |
| MW-10 | | 3/30/93 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 6/1/93 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-10 | | 9/21/93 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-10 | | 12/23/93 | ND | ND | ND | ND | ND | - | - | 140 | - |
| MW-10 | | 6/27/94 | 11 | ND | ND | 13 | ND | - | - | 1,890 | - |
| MW-10 | | 12/1/94 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 3/9/95 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-10 | | 7/2/96 | ND | ND | ND | ND | ND | - | - | ND | 100 |
| MW-10 | | 4/10/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 6/13/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 9/9/97 | ND | ND | ND | ND | ND | - | - | ND | 400 |
| MW-10 | | 1/29/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 4/30/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 8/3/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-10 | | 12/3/98 | ND | ND | ND | 4.1 | ND | - | - | ND | ND |
| MW-10 | | 4/5/99 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | ND | ND |
| MW-10 | | 6/21/99 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | ND | ND |
| MW-10 | | 10/6/99 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | ND | ND |
| MW-10 | | 12/28/00 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | ND | ND |
| MW-10 | | 3/22/01 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | 110 |
| MW-10 | | 6/26/01 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-10 | | 9/26/01 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | 110 |
| MW-10 | | 3/12/02 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-10 | | 10/11/02 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | 160 |
| MW-10 | | 6/9/03 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-10 | | 2/25/04 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <94 |
| MW-10D | a | 11/12/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | <100 |
| MW-10D | a | 2/12/09 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | <110 |
| MW-14 | | 7/17/91 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-14 | | 8/13/91 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 1/13/92 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 3/30/93 | 50 | 1.1 | ND | ND | ND | - | - | 130 | ND |
| MW-14 | | 6/1/93 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 9/21/93 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 12/23/93 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 6/27/94 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 12/1/94 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-14 | | 3/9/95 | ND | ND | ND | ND | ND | - | - | ND | ND |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-14 | 7/2/96 | ND | ND | ND | ND | ND | - | - | ND | 100 |
| MW-14 | 4/10/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-14 | 6/13/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-14 | 9/9/97 | ND | <1.0 | <1.0 | <1.0 | <3.0 | - | - | <10 | 300 |
| MW-14 | 1/29/98 | ND | ND | ND | ND | ND | - | - | ND | 300 |
| MW-14 | 4/30/98 | ND | ND | ND | ND | ND | - | - | ND | 100 |
| MW-14 | 8/3/98 | ND | ND | ND | ND | ND | - | - | ND | 210 |
| MW-14 | 12/3/98 | ND | ND | 1 | 5.1 | ND | - | - | ND | ND |
| MW-14 | 4/5/99 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | ND | ND |
| MW-14 | 6/21/99 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | ND | 190 |
| MW-14 | 10/6/99 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | ND | ND |
| MW-14 | 12/28/00 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-14 | 3/22/01 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-14 | 6/26/01 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-14 | 9/28/01 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-14 | 3/12/02 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | 1,700 |
| MW-14 | 10/11/02 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-14 | 6/19/03 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <100 |
| MW-14 | 2/25/04 | <1.0 | <1.0 | <1.0 | <3.0 | ND | - | - | <50 | <120 |
| MW-14 | 8/22/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-14 | 1/9/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| | | | | | | | | | | |
| MW-14D | 11/30/06 | <0.14 | <0.36 | <0.40 | <1.1 | 0.43 J | - | - | <26 | - |
| MW-14D | 3/20/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-14D | 9/25/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-14D | 2/13/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-14D | 11/12/08 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-14D | 8/22/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-14D | 1/13/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| | | | | | | | | | | |
| MW-15 | 7/17/91 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 8/13/91 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 1/13/92 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 3/30/93 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 6/1/93 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 9/21/93 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 12/23/93 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 6/27/94 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 12/1/94 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 3/9/95 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 7/2/96 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 4/10/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 6/13/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 9/9/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 1/29/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 4/30/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 8/3/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 12/3/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-15 | 4/5/99 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | ND | ND |
| MW-15 | 6/21/99 | - | - | - | - | - | - | - | - | - |
| MW-15 | 10/6/99 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-15 | 12/28/00 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-15 | 3/22/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-15 | | 6/26/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-15 | | 9/28/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-15 | | 3/12/02 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | 230 |
| MW-15 | | 10/11/02 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | 170 |
| MW-15 | | 2/25/04 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <94 |
| MW-16 | | 5/7/93 | 550 | 23 | 74 | ND | ND | - | - | 2,600 | 400 |
| MW-16 | | 6/1/93 | 1,300 | 190 | 110 | ND | ND | - | - | 390 | - |
| MW-16 | | 9/21/93 | 390 | 73 | 1 | 9.9 | 740 | - | - | 4,100 | - |
| MW-16 | | 12/23/93 | 1,200 | 6 | 41 | ND | 72 | - | - | 1,800 | - |
| MW-16 | | 6/27/94 | 2,520 | 16 | 134 | ND | 105 | - | - | 6,530 | - |
| MW-16 | | 12/1/94 | 34 | ND | ND | ND | ND | - | - | 1,050 | - |
| MW-16 | | 3/9/95 | 10 | ND | ND | ND | ND | - | - | 1,100 | - |
| MW-16 | | 7/2/96 | 1.3 | ND | ND | ND | ND | - | - | ND | 100 |
| MW-16 | | 4/10/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-16 | | 6/13/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-16 | | 9/9/97 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | ND | 100 |
| MW-16 | | 1/29/98 | <1.0 | <1.0 | <1.0 | <3.0 | <10 | - | - | ND | 100 |
| MW-16 | | 4/30/98 | ND | ND | ND | ND | ND | - | - | ND | 200 |
| MW-16 | | 8/3/98 | ND | ND | ND | ND | ND | - | - | ND | 620 |
| MW-16 | | 12/3/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-16 | | 4/5/99 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 6/21/99 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 10/6/99 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 12/9/99 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 4/20/00 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 12/28/00 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 3/22/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 6/26/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 9/28/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 3/12/02 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 10/11/02 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 6/9/03 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-16 | | 2/25/04 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <94 |
| MW-16 | | 11/30/06 | <0.14 | <0.36 | <0.40 | <1.1 | <0.36 | - | - | <26 | - |
| MW-16 | | 3/20/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-16 | | 9/25/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-16 | | 2/13/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-16 | | 11/11/08 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 2/12/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 8/11/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 2/4/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 10/28/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 3/3/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 9/15/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 3/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 8/22/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 6/12/13 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | | 1/9/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-16 | B | 6/4/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 9/21/93 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-17 | | 12/23/93 | ND | ND | ND | ND | ND | - | - | ND | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987016**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-17 | | 6/27/94 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-17 | | 12/1/94 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-17 | | 3/9/95 | ND | ND | ND | ND | ND | - | - | ND | - |
| MW-17 | | 7/2/96 | 3.7 | ND | ND | ND | ND | - | - | ND | - |
| MW-17 | | 4/10/97 | 2.6 | ND | ND | ND | ND | - | - | ND | ND |
| MW-17 | | 6/13/97 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-17 | | 9/9/97 | <1.0 | <1.0 | <1.0 | <3.0 | <10 | - | - | - | 300 |
| MW-17 | | 1/29/98 | ND | ND | ND | ND | ND | - | - | ND | ND |
| MW-17 | | 4/30/98 | 1,540 | <10 | <10 | <30 | <10 | - | - | 2,100 | 300 |
| MW-17 | G | 6/13/98 | 2,100 | <100 | <100 | <300 | - | <500 | 140 | - | - |
| MW-17 | | 8/3/98 | 407 | 1.1 | ND | ND | ND | - | - | 580 | 120 |
| MW-17 | | 12/3/98 | 980 | ND | ND | ND | - | - | - | 1,300 | ND |
| MW-17 | | 4/5/99 | 360 | <2.0 | <2.0 | <6.0 | - | - | - | 540 | <100 |
| MW-17 | | 6/21/99 | 35 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-17 | | 10/6/99 | 2.8 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-17 | | 12/9/99 | 9.2 | 1.7 | 1.2 | 5.8 | <5.0 | - | - | <100 | - |
| MW-17 | | 4/20/00 | 2.9 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 12/28/00 | 3.4 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | 130 |
| MW-17 | | 3/22/01 | 2.1 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-17 | | 6/26/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-17 | | 9/28/01 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-17 | | 3/12/02 | 2.5 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <100 |
| MW-17 | | 10/11/02 | <1.0 | <1.0 | <1.0 | <3.9 | - | - | - | <50 | <100 |
| MW-17 | | 6/9/03 | <1.0 | <1.0 | <1.0 | 3.2 | - | - | - | <50 | <100 |
| MW-17 | | 7/24/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 10/28/03 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 2/25/04 | <1.0 | <1.0 | <1.0 | <3.0 | - | - | - | <50 | <94 |
| MW-17 | | 4/7/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 8/24/04 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 2/16/05 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 11/2/05 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-17 | | 5/4/06 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-17 | | 12/1/06 | <0.14 | <0.36 | <0.40 | <1.1 | <0.36 | - | - | <26 | - |
| MW-17 | | 3/20/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-17 | | 9/25/07 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-17 | | 2/13/08 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <50 | - |
| MW-17 | | 11/11/08 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 2/12/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 8/11/09 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 2/4/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 10/28/10 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 3/3/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 9/15/11 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 3/21/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 8/22/12 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 6/12/13 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | | 1/13/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-17 | G | 6/4/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-18 | | 9/15/11 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-18 | | 3/21/12 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-18 | | 8/23/12 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-18 | | 6/12/13 | LNAPL Present - Not Sampled | | | | | | | | |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-18 | | 1/15/14 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-18 | | 6/3/14 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-19 | | 6/12/03 | 62 | 73 | 8.6 | 118 | <5.0 | - | - | 2,200 | 15,000 |
| MW-19 | | 2/26/04 | 900 | 3,000 | 690 | 3,040 | - | - | - | 13,000 | 1,700 |
| MW-19 | 7 | 10/28/10 | 815 | 2,110 | 460 | 1,840 | 8.9 | - | - | 8,970 | 1,800 |
| MW-19 | | 3/2/11 | 395 | 1,400 | 354 | 1,500 | <25.0 | - | - | 9,240 | 2,500 |
| MW-19 | | 9/16/11 | 13.7 | 160 | 58.9 | 243 | 5.8 | - | - | 963 | - |
| MW-19 | | 3/21/12 | 128 | 541 | 158 | 663 | <25.0 | - | - | 4,200 | - |
| MW-19 | | 8/23/12 | 246 | 1,160 | 247 | 1,130 | <25.0 | - | - | 6,350 | - |
| MW-19 | | 6/12/13 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-19 | | 1/15/14 | 240 | 341 | 70.8 | 267 | <25.0 | - | - | 2,950 | - |
| MW-19 | | 6/4/14 | <5.0 | <5.0 | <5.0 | <15.0 | <25.0 | - | - | <500 | - |
| MW-20 | | 7/2/96 | 7,340 | 11,800 | 1,930 | 1,160 | 2,750 | - | - | 56,900 | 100 |
| MW-20 | | 4/10/97 | 4,500 | 12,500 | 1,640 | 13,100 | <500 | - | - | 46,600 | 10,600 |
| MW-20 | | 6/13/97 | 8,370 | 9,810 | 1,900 | 11,400 | 361 | - | - | 52,300 | 11,200 |
| MW-20 | | 9/9/97 | 1,980 | 3,060 | 790 | 3,730 | <2000 | - | - | 15,200 | 400 |
| MW-20 | | 1/29/98 | 16,700 | 3,370 | 4,330 | 24,100 | <2000 | - | - | 137,000 | 822,000 |
| MW-20 Sealed | | 10/4/10 | | | | | | | | | |
| MW-21 | | 2/26/04 | 240 | 490 | 120 | 720 | <2.5 | - | - | 5,600 | 3,800 |
| MW-21 Sealed | | 10/6/10 | | | | | | | | | |
| MW-23 | | 6/12/03 | 3,800 | 3,100 | 1,200 | 6,300 | <25 | - | - | 24,000 | 4,300 |
| MW-23 | | 2/26/04 | 1,100 | 930 | 520 | 2,410 | - | - | - | 12,000 | 1,600 |
| MW-23 Sealed | | 10/6/10 | | | | | | | | | |
| MW-26 | 7 | 10/27/10 | 1,720 | 4,520 | 1,670 | 7,100 | <50.0 | - | - | 38,800 | 9,200 |
| MW-26 | 7 | 3/2/11 | 3,310 | 10,000 | 1,120 | 5,280 | 105 | - | - | 44,900 | 7,700 |
| MW-26 | | 9/15/11 | 1,400 | 2,690 | 473 | 2,170 | 51.0 | - | - | 12,800 | - |
| MW-26 | | 3/21/12 | 1,940 | 3,360 | 644 | 3,220 | <100 | - | - | 16,200 | - |
| MW-26 | | 8/23/12 | 878 | 1,760 | 649 | 2,950 | <50.0 | - | - | 12,800 | - |
| MW-26 | | 6/12/13 | 4,560 | 13,300 | 1,500 | 7,660 | 124 | - | - | 66,500 | - |
| MW-26 | | 1/15/14 | 1,140 | 2,390 | 846 | 4,300 | <250 | - | - | 20,100 | - |
| MW-26 | | 6/3/14 | LNAPL Present - Not Sampled | | | | | | | | |
| MW-27 | 7 | 10/27/10 | 1,760 | 5,620 | 1,370 | 5,900 | 45.7 | - | - | 31,200 | 5,100 |
| MW-27 | 7 | 3/2/11 | 727 | 2,160 | 785 | 4,010 | <100 | - | - | 22,900 | 5,700 |
| MW-27 | | 9/15/11 | 1,370 | 3,560 | 747 | 3,430 | 63.3 | - | - | 16,800 | - |
| MW-27 | | 3/21/12 | 1,560 | 5,270 | 890 | 4,390 | <100 | - | - | 25,000 | - |
| MW-27 | | 8/23/12 | 1,890 | 5,140 | 1,020 | 4,810 | <100 | - | - | 23,700 | - |
| MW-27 | | 6/12/13 | 3,090 | 17,200 | 1,510 | 8,790 | 122 | - | - | 58,000 | - |
| MW-27 | | 1/15/14 | 456 | 1,320 | 405 | 1,970 | <100 | - | - | 10,000 | - |
| MW-27 | | 6/5/14 | 1,830 | 8,930 | 1,380 | 7,070 | <100 | - | - | 40,200 | - |
| MW-28 | 7 | 10/25/10 | 6.1 | 18.3 | 38.6 | 127 | 17.0 | - | - | 5,570 | 3,600 |
| MW-28 | 7 | 3/2/11 | <5.0 | 5.8 | 26.0 | 191 | 35.6 | - | - | 9,810 | 9,800 |
| MW-28 | | 9/14/11 | <2.0 | <2.0 | 20.0 | 51.4 | 36.7 | - | - | 4,970 | - |
| MW-28 | | 3/21/12 | <5.0 | <5.0 | 17.6 | 54.7 | 29.4 | - | - | 5,380 | - |
| MW-28 | | 8/23/12 | <2.0 | <2.0 | 14.3 | 36.6 | <10.0 | - | - | 3,650 | - |
| MW-28 | | 6/13/13 | <2.0 | <2.0 | 15.4 | 36.1 | 45.0 | - | - | 4,030 | - |
| MW-28 | | 1/15/14 | <2.0 | <2.0 | 9.0 | 17.4 | 23.4 | - | - | 3,590 | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-28 | | 6/5/14 | <2.0 | 2.2 | 5.2 | 8.4 | 11.0 | - | - | 1,900 | - |
| MW-29 | 7 | 10/25/10 | <1.0 | 9.6 | 96.1 | 529 | 29.6 | - | - | 5,510 | 3,300 |
| MW-29 | 7 | 3/2/11 | <5.0 | <5.0 | 135 | 851 | 57.6 | - | - | 15,100 | 10,700 |
| MW-29 | | 9/14/11 | <2.0 | 2.1 | 85.0 | 586 | 65.8 | - | - | 7,420 | - |
| MW-29 | | 3/21/12 | <5.0 | <5.0 | 87.0 | 692 | 47.1 | - | - | 6,400 | - |
| MW-29 | | 8/23/12 | <5.0 | <5.0 | 84.9 | 733 | <25.0 | - | - | 6,700 | - |
| MW-29 | | 6/13/13 | <5.0 | <5.0 | 82.1 | 568 | 109 | - | - | 9,640 | - |
| MW-29 | | 1/15/14 | <5.0 | <5.0 | 30.9 | 395 | 60.9 | - | - | 6,460 | - |
| MW-29 | | 6/4/14 | <5.0 | <5.0 | 22.5 | 302 | 129 | - | - | 4,310 | - |
| MW-30 | 7 | 10/25/10 | 628 | 1,230 | 235 | 870 | 34.0 | - | - | 13,000 | 4,500 |
| MW-30 | 7 | 3/2/11 | 67.1 | 611 | 314 | 1,230 | 62.9 | - | - | 22,000 | 14,600 |
| MW-30 | | 9/16/11 | 29.9 | 239 | 100 | 357 | 86.5 | - | - | 8,780 | - |
| MW-30 | | 3/21/12 | 14.8 | 163 | 63.3 | 180 | 41.5 | - | - | 5,970 | - |
| MW-30 | | 8/23/12 | 15.7 | 142 | 58.9 | 135 | <25.0 | - | - | 4,790 | - |
| MW-30 | | 6/13/13 | 142 | 394 | 92.2 | 259 | 83.0 | - | - | 8,580 | - |
| MW-30 | | 1/15/14 | 24.2 | 33.9 | 22.1 | 42.9 | 34.0 | - | - | 3,650 | - |
| MW-30 | | 6/4/14 | 40.8 | 75.6 | 38.2 | 79.2 | 106 | - | - | 4,020 | - |
| MW-31A | | 8/29/13 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | 886 | - |
| MW-31A | | 1/14/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | 370 | - |
| MW-31A | | 4/9/14 | 12.0 | <1.0 | <1.0 | <3.0 | 17.6 | - | - | 1,330 | - |
| MW-31A | | 6/3/14 | 4.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | 253 | - |
| MW-31A | | 8/27/14 | 6.9 | <1.0 | <1.0 | <3.0 | 7.3 | - | - | 767 | - |
| MW-31A | | 12/17/14 | 2.6 | <1.0 | <1.0 | <3.0 | 5.7 | - | - | 570 | - |
| MW-31B | | 8/28/13 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| MW-31B | | 1/9/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| MW-31B | | 4/10/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | - | - | <100 | - |
| MW-31B | | 6/3/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-31B | | 8/27/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-31B | | 12/17/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-31C | | 8/28/13 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| MW-31C | | 1/9/14 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <4.0 | <1.0 | <100 | - |
| MW-31C | | 4/10/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-31C | | 6/3/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-31C | | 8/27/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-31C | | 12/17/14 | <1.0 | <1.0 | <1.0 | <3.0 | <5.0 | - | - | <100 | - |
| MW-32 | | 8/29/13 | 3.3 | 18.8 | 18.2 | 154 | <1.0 | 5.8 | <1.0 | 1,180 | - |
| MW-32 | | 1/15/14 | 14.3 | 25.0 | 216 | 115 | <1.0 | 58.6 | <1.0 | 4,090 | - |
| MW-32 | | 4/10/14 | 12.3 | 7.2 | 6.0 | 12.3 | 11.0 | - | - | 1,150 | - |
| MW-32 | 8 | 6/5/14 | 20.2 | 24.9 | 59.0 | 66.3 | 15.0 | - | - | 2,570 | - |
| MW-32 | | 8/28/14 | 7.7 | 33.0 | 151 | 218 | <25.0 | - | - | 3,980 | - |
| MW-32 | | 12/17/14 | 10.1 | 13.1 | 90.7 | 101 | 22.6 | - | - | 2,350 | - |
| MW-33 | | 8/29/13 | 24.3 | 95.7 | 85.9 | 360 | <5.0 | 52.9 | <5.0 | 9,870 | - |
| MW-33 | | 1/15/14 | 90.3 | 126 | 202 | 843 | <5.0 | 129 | <5.0 | 11,900 | - |
| MW-33 | | 4/10/14 | 194 | 200 | 196 | 718 | 64.9 | - | - | 19,100 | - |
| MW-33 | | 6/5/14 | 85.0 | 97.2 | 133 | 522 | 32.8 | - | - | 8,770 | - |
| MW-33 | | 8/28/14 | 25.7 | 64.6 | 97.3 | 363 | 39.6 | - | - | 8,770 | - |



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**TABLE 11 - GROUNDWATER ANALYTICAL RESULTS (WELLS)**
**PAYNESVILLE MUNICIPAL WATER SUPPLY - MPCA**
**PAYNESVILLE, MINNESOTA 56363**
**TERRACON PROJECT NO. 41987018**

| Sample ID | | Date | Benzene (µg/L) | Toluene (µg/L) | Ethyl Benzene (µg/L) | Xylenes (µg/L) | Methyl Tert-Butyl Ether (µg/L) | Naphthalene (µg/L) | 1,2-Dichloro-ethane (µg/L) | Gasoline Range Organics (µg/L) | Diesel Range Organics (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-33 | 8 | 12/18/14 | 28.4 | 13.3 | 21.1 | 71.0 | 32.6 | - | - | 8,290 | - |
| ***POTABLE WELLS*** | | | | | | | | | | | |
| CW-3 | | 03/25/98 | 18 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 05/20/98 | 11 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | G | 06/10/98 | 9.3 | <1 | <1 | <3 | - | <5 | <1 | - | - |
| CW-3 | | 06/10/98 | 7.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - |
| CW-3 | | 08/20/98 | 6.2 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 09/09/98 | 5.2 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 10/05/98 | 4.8 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 11/18/98 | 3.4 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 12/15/98 | 2.9 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 01/25/99 | 1.6 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 02/18/99 | 1.3 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 03/17/99 | 0.86 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 04/22/99 | 0.63 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 05/21/99 | <0.3 | <0.3 | <0.5 | <1.2 | <1.0 | <0.4 | <0.5 | - | - |
| CW-3 | | 06/24/99 | 0.37 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 07/19/99 | 0.48 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 08/23/99 | 1.4 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 09/22/99 | 1.1 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 10/25/99 | 0.59 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 11/24/99 | 0.35 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 12/09/99 | 0.36 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 01/13/00 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | - | - |
| CW-3 | | 02/17/00 | 0.35 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 03/13/00 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 04/20/00 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 05/23/00 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 06/17/00 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 07/27/00 | <0.30 | <0.30 | <0.50 | <1.2 | <1.0 | <0.40 | <0.50 | - | - |
| CW-3 | | 08/16/00 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 09/12/00 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 10/20/00 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 11/20/00 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 01/16/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | <100 | - |
| CW-3 | | 04/12/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 08/13/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 10/09/01 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 01/29/02 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 04/16/02 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 08/19/02 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 11/05/02 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 01/16/03 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 04/03/03 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 07/24/03 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | 3 | 10/28/03 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 09/25/07 | <0.50 | <0.50 | <0.50 | <1.5 | <1.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 01/28/04 | <0.50 | <0.50 | <0.50 | <1.5 | <5.0 | <0.50 | <0.50 | - | - |
| CW-3 | | 04/07/04 | <1.0 | <1.0 | <1.0 | <3.0 | <1.0 | <5.0 | <1.0 | - | - |
| CW-3 | | 08/25/04 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | <0.50 | <0.50 | - | - |
| CW-3 | | 02/16/05 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | <0.50 | <0.50 | - | - |
| CW-3 | | 11/02/05 | <0.41 | <1.0 | <1.0 | <3.0 | <1.0 | <1.0 | <0.36 | - | - |

## LEGEND

- MONITORING WELL UPPER SAND UNIT
- DEEP MONITORING WELL/TEST WELL/PIEZOMETER, LOWER SAND UNIT, BASAL SUBUNIT
- MONITORING WELL, LOWER SAND UNIT, UPPER FINE GRAINED SUB-UNIT
- PRIVATE POTABLE WELLS
- MUNICIPAL POTABLE WELLS

NOTE: PROPERTY BOUNDARIES ARE APPROXIMATE

280 0 70 140 210 280

APPROXIMATE SCALE: 1" = 280'

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

| | |
|---|---|
| Project Mngr: | PJW |
| Drawn By: | JLM (41) |
| Checked By: | PJW |
| Approved By: | PJW |
| Project No. | 41987018 |
| Scale: | AS SHOWN |
| File No. | 41987018.15.dwg |
| Date: | 12/04/2014 |

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AREA MAP

PAYNESVILLE MUNICIPAL WATER SUPPLY
FORMER MIDTOWN SERVICE STATION

PAYNESVILLE MINNESOTA

FIG. No. 2A (RG2A)

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