



REGULAR BOARD MEETING

September 08, 2026 at 7:00 PM

Madison Township Hall – 3804 South Adrian Hwy.

AGENDA

Zoom Notification

Call To Order (Cell Phone Reminder - Silent Prayer – Pledge)

Roll Call of Township Board

Public Hearings (If Applicable)

Amendments to Regular or Consent Agenda

Petitions and Communications of Township Board

Introduction of Special Guests

Public Comment (any agenda item – 3 minutes)

Department Head Communications

Approval of Consent Agenda

- [1.](#) Approval of Previous Meeting Minutes
- [2.](#) Treasurer's Report
3. Presentation of Bills
- [4.](#) Police Department Report
- [5.](#) Fire Report
- [6.](#) Building Official's Report
- [7.](#) Electrical Inspector's Report
- [8.](#) Mechanical Inspector's Report
- [9.](#) Plumbing Inspector's Report
- [10.](#) DPW Report

11. Advisory Committee Reports/Minutes

12. Statutory Board Reports/ Minutes (BOR, Planning, ZBA)

Old Business/Unfinished Business

New Business

[1.](#) Ogden Township Building and Zoning Official Agreement

[2.](#) Gutters for Public Safety Building

[3.](#) Dangerous Building Hearing Officer

Elected Official Comment (any topic – 2 minutes)

Public Comment (any topic – 3 minutes)

Announcements

Adjournment/Recess



CHARTER TOWNSHIP OF MADISON

Ryan Rank
Supervisor
Janet Moden
Clerk
Harold Gregg
Treasurer

3804 S. ADRIAN HIGHWAY
ADRIAN, MI 49221
517-263-9313 Fax: 517-263-4569

TRUSTEES

Howard Bales
Ralph Benschoter
Chad Rodgers
Norman Schutte

Madison Township Board Meeting
Held in Person and Electronically (Zoom)
Minutes of August 11, 2026

7:00 p.m. Board Meeting called to order, with a silent prayer, and pledge to the flag said by all.

ROLL CALL:

Present in person: Rank, Moden, Gregg, Benschoter, Bales. Absent Rodgers and Schutte.

AMENDMENTS TO THE AGENDA: None

PETITIONS & COMMUNICATIONS:

Supervisor Rank asked the board to move the Budget presentation to the end of this meeting.

Due to a large number of residents and interested parties at this meeting, Supervisor Rank addressed the issue of wells being dug on railroad property at the very beginning of the meeting under communications. He walked everyone through the timeline of when he was made aware of the issue, and explained what action has already been taken by the township and the communications that he has already had with the Lenawee County Health Department and the State of Michigan EGLE. He encouraged any residents that want to be kept aware of the ongoing communications and/or get copies of the current communications with officials, to please sign up their emails on the list provided.

The discussion entailed the requested information that the township is asking for from EGLE and the Health Dept. which includes 1) the adverse impact on the aquifer that the current township wells are located in, as well as local individual wells of homeowners in the area, 2) What is the dispute process, 3) Ask Blissfield, Palmyra and Riga what input they have had with the ZFS railroad about providing water to their communities. It was suggested that residents need to contact their representatives at the Federal level regarding their concerns, as railroads are regulated at the Federal level and not the State. The State only regulates well permits through EGLE. Any further communication on this matter will be shared with residents going forward that want to provide the township with their email address.



CHARTER TOWNSHIP OF MADISON

INTRODUCTION OF SPECIAL GUESTS: None

LIMITED PUBLIC COMMENT ON AGENDA ITEMS: It was suggested that the township get our local legislative representatives and senators down here to listen to the issues with the wells. Also, can the township get some information on what aquifer the City of Adrian draws from?

3-MINUTE DEPT. HEAD UPDATES:

Fire: Chief Wilson stated that things were pretty status quo. Engine #3 (our oldest engine) needs lots of work, such as mechanical refurbishment, rebuild the pumps, all of which is built into our budget. Pump testing has been completed for the year.

Police: Chief Gentner stated that the Police Dept parking lot has been finished, and it was discovered that the catch basin had been crushed in the past causing the flooding issues in the past. Currently getting quotes on gutters for the building. Been busy with cases.

Water/Sewer: Watterson stated the new water meters have been delivered, and the new electrical is being installed at the new water treatment plant.

Inspection: Building Official, Rincon absent

Legal: None

APPROVAL OF CONSENT AGENDA: Motion by Bales, supported by Benschoter, to approve the consent agenda and previous month's board meeting minutes. Roll call vote: Rank: Yes; Gregg, Yes; Moden, Yes; Benschoter, Yes; Bales. Motion carried 5-0.

OLD BUSINESS/UNFINISHED BUSINESS: None

NEW BUSINESS:

Water Bill Late Fees:

Supervisor Rank stated that the current Late Fee charged on water/sewer bills is \$3.60 and has been for a very long time. Since that amount does not seem to be a deterrent for people to pay their bills on time, it is time to change the amount to \$10.00 effective on the next billing cycle. This was stated as a motion, supported by Gregg. Motion carried 5-0.



CHARTER TOWNSHIP OF MADISON

ELECTED OFFICIALS' COMMENTS:

Bales: Stated that sending water to the Ethanol plant is a joke, it cost over \$10 million to get water over there, doesn't make sense.

AUDIENCE COMMENTS:

Resident Bill Gira – stated the speed sign at the end of the runway is not working. Police Chief stated that is only set to come on if your car is speeding.

Supervisor Rank gave a PowerPoint presentation regarding the General Fund and budget, since he wants to be entirely transparent, that was not an issue between the Treasurer and himself regarding the budget and the use of township monies. Gregg stated that this year we have approximately 8% in delinquent taxes not collected. Resident Dale Thielen asked if we had ever had to borrowed money from Peter to pay Paul in the past. It was discussed that the timing of when the township receives State revenue and the amount changes every year, so we budget with our best guess. Resident Thielen asked why we don't do more zoning enforcement, and the answer was we don't have unlimited funds to follow up on the legal and court costs.

ANNOUNCEMENTS: None

ADJOURNMENT/RECESS: Motion by Benschoter, seconded by Gregg, to adjourn the meeting. Motion carried Meeting adjourned at 8:02 p.m.

Typed and Submitted by:

Janet Moden, Township Clerk

Bank Code Fund	Description	Beginning Balance 08/01/2026	Total Debits	Total Credits	Ending Balance 08/31/2026
10	SEWER & WATER FUND				
592	Water & Sewer Fund	157,358.98	222,825.43	303,785.02	76,399.39
	SEWER & WATER FUND	157,358.98	222,825.43	303,785.02	76,399.39
11	SPECIAL TAX ACCT				
703	Current Tax Collection Fund	31,270.61	415.46	0.00	31,686.07
	SPECIAL TAX ACCT	31,270.61	415.46	0.00	31,686.07
16	AMBULANCE RECEIPTS				
101	General Fund	41,615.44	0.00	50,000.00	(8,384.56)
	AMBULANCE RECEIPTS	41,615.44	0.00	50,000.00	(8,384.56)
18	WATER CAPITAL IMPROVEMENTS				
592	Water & Sewer Fund	2,094,694.95	0.00	102,454.58	1,992,240.37
	WATER CAPITAL IMPROVEMENTS	2,094,694.95	0.00	102,454.58	1,992,240.37
19	WATER DEBT SERVICE				
592	Water & Sewer Fund	101.00	0.00	0.00	101.00
	WATER DEBT SERVICE	101.00	0.00	0.00	101.00
2	AMBULANCE/FIRE RECEIPTS				
101	General Fund	319,654.69	0.00	330,000.00	(10,345.31)
	AMBULANCE/FIRE RECEIPTS	319,654.69	0.00	330,000.00	(10,345.31)
20	WESBANCO ICS S&W				
592	Water & Sewer Fund	2,781,243.24	0.00	0.00	2,781,243.24
	WESBANCO ICS S&W	2,781,243.24	0.00	0.00	2,781,243.24
4	BLDG & APPARATUS				
403	Building and Aparatus	345,339.23	0.00	0.00	345,339.23
	BLDG & APPARATUS	345,339.23	0.00	0.00	345,339.23
6	CONSTRUCTION CODE				
249	State Construction Code Acct	106,395.44	20,249.50	18,814.74	107,830.20
	CONSTRUCTION CODE	106,395.44	20,249.50	18,814.74	107,830.20
9	ROAD CONST FUND				
204	MUNICIPAL STREET FUND	451,078.19	0.00	96,166.72	354,911.47
	ROAD CONST FUND	451,078.19	0.00	96,166.72	354,911.47
GH	GENERAL FUND BANK				
1	General Fund	222,892.59	463,623.22	316,053.35	370,462.46

CASH SUMMARY BY BANK FOR MADISON CHARTER TOWNSHIP
FROM 08/01/2026 TO 08/31/2026

Bank Code Fund	Description	Beginning Balance 08/01/2026	Total Debits	Total Credits	Ending Balance 08/31/2026
	GENERAL FUND BANK	222,892.59	463,623.22	316,053.35	370,462.46
TLC ASSET 101	FORFEITURE ACCOUNT General Fund	54,255.88	0.00	0.00	54,255.88
	ASSET FORFEITURE ACCOUNT	54,255.88	0.00	0.00	54,255.88
	TOTAL - ALL FUNDS	6,605,900.24	707,113.61	1,217,274.41	6,095,739.44

CHARTER TOWNSHIP OF MADISON
PREPAID GENERAL FUND BILLS
AUGUST 2026

Item 2.

101-000-123-000	HSA		\$	-
101-171-702-000	RYAN RANK	SUPERVISOR	\$	2,530.07
101-215-702-000	JANET MODEN	CLERK	\$	3,005.32
101-253-702-000	HAROLD GREGG	TREASURER	\$	2,806.16
101-101-702-000	NORMAN SCHUTTE	TRUSTEE	\$	409.74
101-101-702-000	RUSTY BENSCHOTER	TRUSTEE	\$	409.74
101-101-702-000	CHAD RODGERS	TRUSTEE	\$	409.74
101-101-702-000	HOWARD BALES	TRUSTEE	\$	409.74
101-000-231.002	MADISON TWP FIREFIGHTERS	UNION DUES	\$	480.00
101-000-231-006	POLICE DEPT.	UNION DUES	\$	340.42
101-265-901-000	NEOPOST	POSTAGE	\$	-
101-301-703-000	WAGES	SAND CREEK SRO	\$	5,209.60
101-265-707-000	WAGES	OFFICE PART TIME	\$	798.00
101-301-702-000	WAGES	POLICE FULL TIME	\$	29,436.82
101-301-707-000	WAGES	POLICE PART ITME	\$	1,575.20
101-336-702-000	WAGES	FIRE FULL TIME	\$	14,722.39
101-336-707-000	WAGES	FIRE PART TIME	\$	-
101-651-702-000	WAGES	AMB FULL TIME	\$	49,182.86
101-651-707-000	WAGES	AMB PART TIME	\$	7,895.48
TOTAL			\$	119,621.28

Department: 000

AFLAC	Prepaid Expenses	309.90
BLUE CARE NETWORK OF MICHIGAN	Prepaid Expenses	31,869.39
CINCINNATI INSURANCE COMPANY	LIFE INSURANCE	19.62
GARDNER, TAKESHIA	Utility Bills Receivable	91.97
MEDMUTUAL LIFE	Prepaid Expenses	931.38
METLIFE	Prepaid Expenses	762.37
MOORE-NELSON ROUTES, INC.	Utility Bills Receivable	49.78
MULLINS, JEFFREY	Deposits Payable	100.00
POLICE OFFICERS ASSOCIATION OF M	POLICE DEPT. UNION DUES	340.42
RICHARDSON, JENNIFER	Utility Bills Receivable	209.65
ULLIANCE	Prepaid Expenses	4,375.00
Total: 000		39,059.48

Department: 101 Board of Trustee's

TLC COMMUNITY CREDIT UNION	Fee's/Meetings	84.21
Total: 101 Board of Trustee's		84.21

Department: 172 Administration

CALKINS HEHL & RAFKO	Audit Fee's	1,500.00
TLC COMMUNITY CREDIT UNION	Vehicle Maintenance & Repair	114.08
WEX BANK	Gas & Oil	147.35
Total: 172 Administration		1,761.43

Department: 223 Audit Fee's

CALKINS HEHL & RAFKO	Audit Fee's	12,500.00
Total: 223 Audit Fee's		12,500.00

Department: 257 Assessor's Department

LACELLE PROPERTIES	Fee's/Meetings	4,323.00
Total: 257 Assessor's Department		4,323.00

Department: 262 Election Department

ELECTION SOURCE	Supplies	1,789.00
TLC COMMUNITY CREDIT UNION	Printing & Publishing	106.07
Total: 262 Election Department		1,895.07

Department: 265 Township Hall

ADRIAN WATER CONDITIONING	Supplies	16.00
BS&A	Capital Outlay	600.00
CONSUMERS ENERGY	Electrical	1,027.58
QUADIENT LEASING	Contractual Services	220.00
SOUTHEAST MICHIGAN WILDLIFE CONT	Contractual Services	190.00
STEVENS DISPOSAL & RECYCLING SER	Contractual Services	143.75
TLC COMMUNITY CREDIT UNION	Supplies	144.38
TLC COMMUNITY CREDIT UNION	Printing & Publishing	52.98
U.S. BANK EQUIPMENT FINANCE	Contractual Services	269.74
Total: 265 Township Hall		2,664.43

Department: 266 Legal Counsel

CASTLEBERRY & LUCAS ATT. AT LAW	Fee's/Meetings	1,970.00
Total: 266 Legal Counsel		1,970.00

Department: 301 Police Department

AT&T MOBILITY	Telephone	612.24
BRAKES-N-MORE	Vehicle Maintenance & Repair	169.63
CONSUMERS ENERGY	Electrical	633.60
LENAWEE COUNTY INFORMATION TECHN	INFORMATION TECHNOLOGY	3,304.00
TLC COMMUNITY CREDIT UNION	Operation Supplies	3,071.88
TLC COMMUNITY CREDIT UNION	Uniforms & Laundry	665.72
TLC COMMUNITY CREDIT UNION	INFORMATION TECHNOLOGY	438.26
TLC COMMUNITY CREDIT UNION	Contractual Services	119.99
TLC COMMUNITY CREDIT UNION	Vehicle Maintenance & Repair	188.88
U.S. BANK EQUIPMENT FINANCE	Contractual Services	227.94
VC3, INC.	INFORMATION TECHNOLOGY	717.45
VC3, INC.	Capital Outlay	1,705.75
WEX BANK	Gas & Oil	2,084.82
Total: 301 Police Department		13,940.16

Department: 336 Fire Department

ACRISURE GREAT LAKES PARTNERS IN	SHORT TERM LONG TERM DISABILIT	4,873.00
AT&T MOBILITY	Telephone	969.79
AUTO-WARES GROUP	Vehicle Maintenance & Repair	230.28
CITY OF ADRIAN	Equipment Rental	45.57
COMCAST	Supplies	70.84
COMCAST	Operation Supplies	268.80
CONSUMERS ENERGY	Electrical	1,801.71
CSI EMERGENCY APPARATUS, LLC.	Vehicle Maintenance & Repair	12,670.71
D & P COMMUNICATIONS	Telephone	347.31
IRONFREE & SOFTWATER SYSTEMS	Supplies	56.00
LOWES BUSINESS ACCT/SYNCR	Miscellaneous	15.52
PATRIOTS FIRE SERVICE	Vehicle Maintenance & Repair	2,074.51
STEVENS DISPOSAL & RECYCLING SER	Operation Supplies	143.75
TLC COMMUNITY CREDIT UNION	Operation Supplies	897.21
TLC COMMUNITY CREDIT UNION	Equipment Maintenance & Repai	274.99
TLC COMMUNITY CREDIT UNION	Education	542.11
U.S. BANK EQUIPMENT FINANCE	Operation Supplies	208.34
WEX BANK	Gas & Oil	609.72
Total: 336 Fire Department		26,100.16

Department: 371 Building Department

ENGLE, ED	BACK UP BLD OFFICIAL	65.00
Total: 371 Building Department		65.00

Department: 372 Electrical Department

PATTEUW, WILLIAM	Salaries/Fee's	1,320.00
Total: 372 Electrical Department		1,320.00

Department: 373 Mechanical Department

JIM WIECH	Salaries/Fee's	975.00
Total: 373 Mechanical Department		975.00

Department: 374 PLUMBING DEPARTMENT

TERRY MASSINGILL	Salaries/Fee's	715.00
Total: 374 PLUMBING DEPARTMENT		715.00

Department: 446 Highways & Streets

SLUSARSKI EXCAVATING & PAVING, I	Maintenance & Repair	92,392.00
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Total: 446 Highways & Streets 92,392.00

Department: 448 Street Lighting

CONSUMERS ENERGY	RIVERS EDGE STREET LIGHTS	104.46
CONSUMERS ENERGY	Electrical	3,774.72
Total: 448 Street Lighting		3,879.18

Department: 536 Sewer Department

AMBS CALL CENTER	Telephone	17.80
CALKINS HEHL & RAFKO	Professional Services	5,950.00
CITIZENS GAS FUEL CO.	Heating	114.03
CITY OF ADRIAN	Usage Fee	45,726.94
CONSUMERS ENERGY	Electrical	810.39
D & P COMMUNICATIONS	Telephone	74.98
JK OF MICHIGAN	Maintenance & Repair	3,840.00
LENAWEE CO. DRAIN COMMISSION	plant replacement	1,521.00
LENAWEE CO. DRAIN COMMISSION	transmission interception mai	500.00
LOWES BUSINESS ACCT/SYNCB	Operation Supplies	47.27
QUADIENT LEASING	Operation Supplies	183.21
SHARE CORPORATION	Operation Supplies	693.95
STEVENS DISPOSAL & RECYCLING SER	Operation Supplies	74.75
SUPERIOR IND. SALES, INC.	Maintenance & Repair	4,047.66
TERRAFIRMA DRILLING, INC.	Maintenance & Repair	15,262.00
TLC COMMUNITY CREDIT UNION	Operation Supplies	64.50
TLC COMMUNITY CREDIT UNION	Uniforms & Laundry	124.20
TLC COMMUNITY CREDIT UNION	INFORMATION TECHNOLOGY	107.96
VERIZON	Telephone	209.59
WEX BANK	Gas & Oil	603.98
WOLVERINE KUBOTA ADRIAN	Maintenance & Repair	509.92
Total: 536 Sewer Department		80,484.13

Department: 537 WATER DEPT.

AMBS CALL CENTER	Telephone	17.80
BRECHBUHLER SCALES, INC	Equipment Rental	3,880.00
CALKINS HEHL & RAFKO	Professional Services	5,950.00
CITIZENS GAS FUEL CO.	Heating	24.25
CITY OF TECUMSEH	Water Samples	150.00
CONSUMERS ENERGY	Electrical	3,811.80
D & P COMMUNICATIONS	Telephone	74.97
ELHORN ENGINEERING CO.	Operation Supplies	2,100.00
FERGUSON WATERWORKS #3386	Operation Supplies	1,118.23
LOWES BUSINESS ACCT/SYNCB	Operation Supplies	47.27
MONROE PLUMBING & HEATING CO.	WATER PROJECT CAPITOL OUTLAY	102,454.58
PARAGON LABORATORIES	Water Samples	605.00
QUADIENT LEASING	Operation Supplies	183.20
SHARE CORPORATION	Operation Supplies	693.94
STEVENS DISPOSAL & RECYCLING SER	Operation Supplies	74.75
TERRAFIRMA DRILLING, INC.	Maintenance & Repair	18,587.00
TLC COMMUNITY CREDIT UNION	Operation Supplies	64.50
TLC COMMUNITY CREDIT UNION	Uniforms & Laundry	124.20
TLC COMMUNITY CREDIT UNION	INFORMATION TECHNOLOGY	107.95
TLC COMMUNITY CREDIT UNION	Dues & Subscriptions	350.00
VERIZON	Telephone	209.58
WEX BANK	Gas & Oil	603.97
WOLVERINE KUBOTA ADRIAN	Maintenance & Repair	509.92
Total: 537 WATER DEPT.		141,742.91

Department: 538 CENTRAL LENAWESE SEWER

LENAWEE CO. DRAIN COMMISSION	CENTRAL LEN MAINT CHG	41,871.69
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09/01/2026 09:26 AM
User: HGREGG
DB: Madison Charter

INVOICE APPROVAL BY DEPT FOR MADISON CHARTER TOWNSHIP
POST DATES 08/01/2026 - 08/31/2026
BOTH JOURNALIZED AND UNJOURNALIZED
BOTH OPEN AND PAID

Page: 4/4

Item 2.

Total: 538 CENTRAL LENAWE SEWER 41,871.69

Department: 567 Cemetery Department

BUNDY'S LAWN SERVICE, LLC.	Maintenance & Repair	1,675.00
Total: 567 Cemetery Department		1,675.00

Department: 651 Ambulance

BOUND TREE MEDICAL, LLC	Operation Supplies	2,207.60
CSI EMERGENCY APPARATUS, LLC.	Operation Supplies	3,550.25
EMS MGMT & CONSULTANTS, INC.	Contractual Services	2,883.40
MICHIGAN DEPT. OF HEALTH & HUMAN	Contractual Services	1,037.69
PLATINUM EDUCATIONAL GROUP	EMS Training	500.00
TECHNICUFF CORPORATION	Operation Supplies	80.00
TLC COMMUNITY CREDIT UNION	INFORMATION TECHNOLOGY	239.45
TRI-STATE MEDICAL SUPPLY	Operation Supplies	258.00
WATSON DIESEL SERVICE CO.	Vehicle Maintenance & Repair	2,470.51
WEX BANK	Gas & Oil	2,258.75
Total: 651 Ambulance		15,485.65

*** GRAND TOTAL *** 484,903.50

Item 2.

13

Department: 000

GARDNER, TAKESHIA	Utility Bills Receivable	91.97
MOORE-NELSON ROUTES, INC.	Utility Bills Receivable	49.78
MULLINS, JEFFREY	Deposits Payable	100.00
RICHARDSON, JENNIFER	Utility Bills Receivable	209.65
Total: 000		451.40

Department: 536 Sewer Department

AMBS CALL CENTER	Telephone	17.80
CALKINS HEHL & RAFKO	Professional Services	5,950.00
CITIZENS GAS FUEL CO.	Heating	114.03
CITY OF ADRIAN	Usage Fee	45,726.94
CONSUMERS ENERGY	Electrical	810.39
D & P COMMUNICATIONS	Telephone	74.98
JK OF MICHIGAN	Maintenance & Repair	3,840.00
LENAWEE CO. DRAIN COMMISSION	plant replacement	1,521.00
LENAWEE CO. DRAIN COMMISSION	transmission interception mai	500.00
LOWES BUSINESS ACCT/SYNCEB	Operation Supplies	47.27
QUADIENT LEASING	Operation Supplies	183.21
SHARE CORPORATION	Operation Supplies	693.95
STEVENS DISPOSAL & RECYCLING SER	Operation Supplies	74.75
SUPERIOR IND. SALES, INC.	Maintenance & Repair	4,047.66
TERRAFIRMA DRILLING, INC.	Maintenance & Repair	15,262.00
TLC COMMUNITY CREDIT UNION	Operation Supplies	64.50
TLC COMMUNITY CREDIT UNION	Uniforms & Laundry	124.20
TLC COMMUNITY CREDIT UNION	INFORMATION TECHNOLOGY	107.96
VERIZON	Telephone	209.59
WEX BANK	Gas & Oil	603.98
WOLVERINE KUBOTA ADRIAN	Maintenance & Repair	509.92
Total: 536 Sewer Department		80,484.13

Department: 537 WATER DEPT.

AMBS CALL CENTER	Telephone	17.80
BRECHBUHLER SCALES, INC	Equipment Rental	3,880.00
CALKINS HEHL & RAFKO	Professional Services	5,950.00
CITIZENS GAS FUEL CO.	Heating	24.25
CITY OF TECUMSEH	Water Samples	150.00
CONSUMERS ENERGY	Electrical	3,811.80
D & P COMMUNICATIONS	Telephone	74.97
ELHORN ENGINEERING CO.	Operation Supplies	2,100.00
FERGUSON WATERWORKS #3386	Operation Supplies	1,118.23
LOWES BUSINESS ACCT/SYNCEB	Operation Supplies	47.27
PARAGON LABORATORIES	Water Samples	605.00
QUADIENT LEASING	Operation Supplies	183.20
SHARE CORPORATION	Operation Supplies	693.94
STEVENS DISPOSAL & RECYCLING SER	Operation Supplies	74.75
TERRAFIRMA DRILLING, INC.	Maintenance & Repair	18,587.00
TLC COMMUNITY CREDIT UNION	Operation Supplies	64.50
TLC COMMUNITY CREDIT UNION	Uniforms & Laundry	124.20
TLC COMMUNITY CREDIT UNION	INFORMATION TECHNOLOGY	107.95
TLC COMMUNITY CREDIT UNION	Dues & Subscriptions	350.00
VERIZON	Telephone	209.58
WEX BANK	Gas & Oil	603.97
WOLVERINE KUBOTA ADRIAN	Maintenance & Repair	509.92
Total: 537 WATER DEPT.		39,288.33

Department: 538 CENTRAL LENAWE SEWER

LENAWEE CO. DRAIN COMMISSION	CENTRAL LEN MAINT CHG	41,871.69
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09/01/2026 09:19 AM
User: HGREGG
DB: Madison Charter

INVOICE APPROVAL BY DEPT FOR MADISON CHARTER TOWNSHIP
POST DATES 08/01/2026 - 08/31/2026
BOTH JOURNALIZED AND UNJOURNALIZED OPEN AND PAID
BANK CODE: 10
SEWER & WATER FUND

Total: 538 CENTRAL LENAWEE SEWER	41,871.69
*** GRAND TOTAL ***	162,095.55

**CHARTER TOWNSHIP OF MADISON
CONSTRUCTION CODE
DUE TO GENERAL FUND
AUGUST 2026**

Item 2.

	HSA		\$	-
249-371-714-004	TOWNSHIP SHARE	HEALTH INS	\$	2,701.08
249-371-714-001	GENERAL FUND	FICA/MEDICARE	\$	456.06
249-371-714-002	GENERAL FUND	RETIREMENT	\$	754.40
249-371-725-000	SALARIES	RINCON WAGES	\$	6,307.70
249-371-725-001	SALARIES	BACK UP BLDG. OFF.	\$	65.00
249-000-214-001	GENERAL FUND	TOTAL	\$	10,284.24

09/01/2026 09:24 AM
User: HGREGG
DB: Madison Charter

INVOICE APPROVAL BY DEPT FOR MADISON CHARTER TOWNSHIP
POST DATES 08/01/2026 - 08/31/2026
BOTH JOURNALIZED AND UNJOURNALIZED OPEN AND PAID
BANK CODE: 6
CONSTRUCTION CODE

Page: 1/1

Item 2.

Department: 172 Administration

CALKINS HEHL & RAFKO	Audit Fee's	1,500.00
TLC COMMUNITY CREDIT UNION	Vehicle Maintenance & Repair	114.08
WEX BANK	Gas & Oil	147.35
Total: 172 Administration		1,761.43

Department: 371 Building Department

ENGLE,ED	BACK UP BLD OFFICIAL	65.00
Total: 371 Building Department		65.00

Department: 372 Electrical Department

PATTEUW,WILLIAM	Salaries/Fee's	1,320.00
Total: 372 Electrical Department		1,320.00

Department: 373 Mechanical Department

JIM WIECH	Salaries/Fee's	975.00
Total: 373 Mechanical Department		975.00

Department: 374 PLUMBING DEPARTMENT

TERRY MASSINGILL	Salaries/Fee's	715.00
Total: 374 PLUMBING DEPARTMENT		715.00

*** GRAND TOTAL ***	4,836.43
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09/01/2026 09:25 AM
User: HGREGG
DB: Madison Charter

INVOICE APPROVAL BY DEPT FOR MADISON CHARTER TOWNSHIP
POST DATES 08/01/2026 - 08/31/2026
BOTH JOURNALIZED AND UNJOURNALIZED OPEN AND PAID
BANK CODE: 9
ROAD CONSTRUCTION

Page: 1/1

Item 2.

Department: 446 Highways & Streets

SLUSARSKI EXCAVATING & PAVING, I Maintenance & Repair	92,392.00
Total: 446 Highways & Streets	92,392.00

Department: 448 Street Lighting

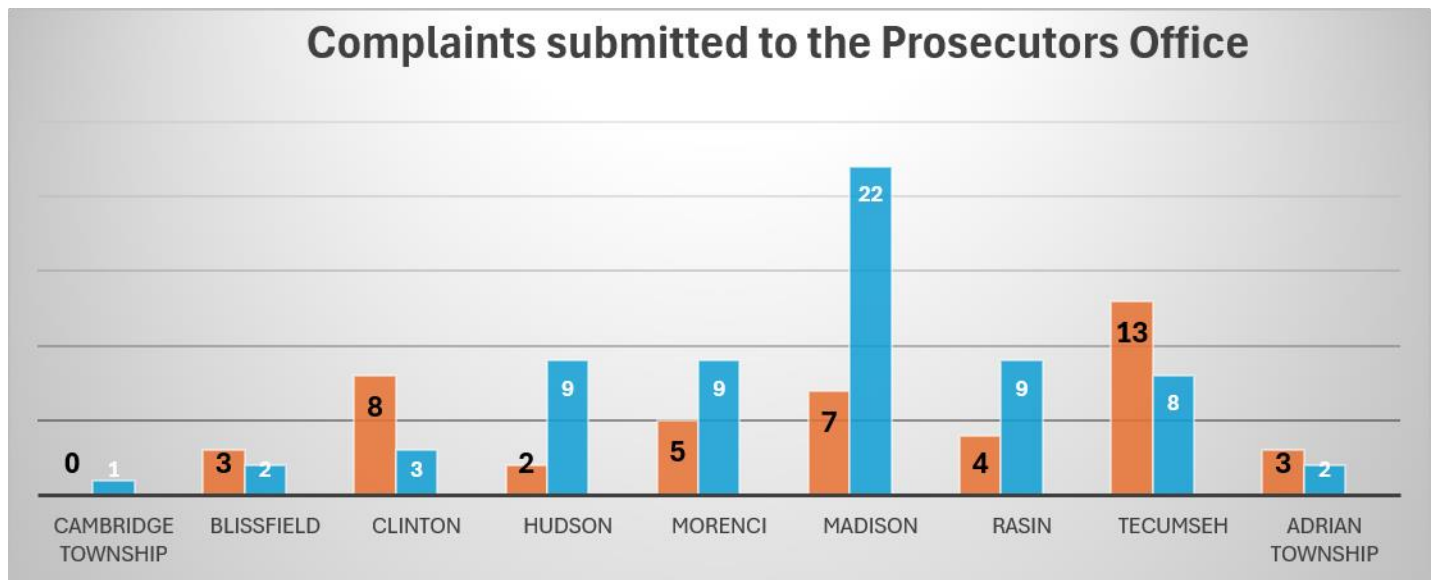
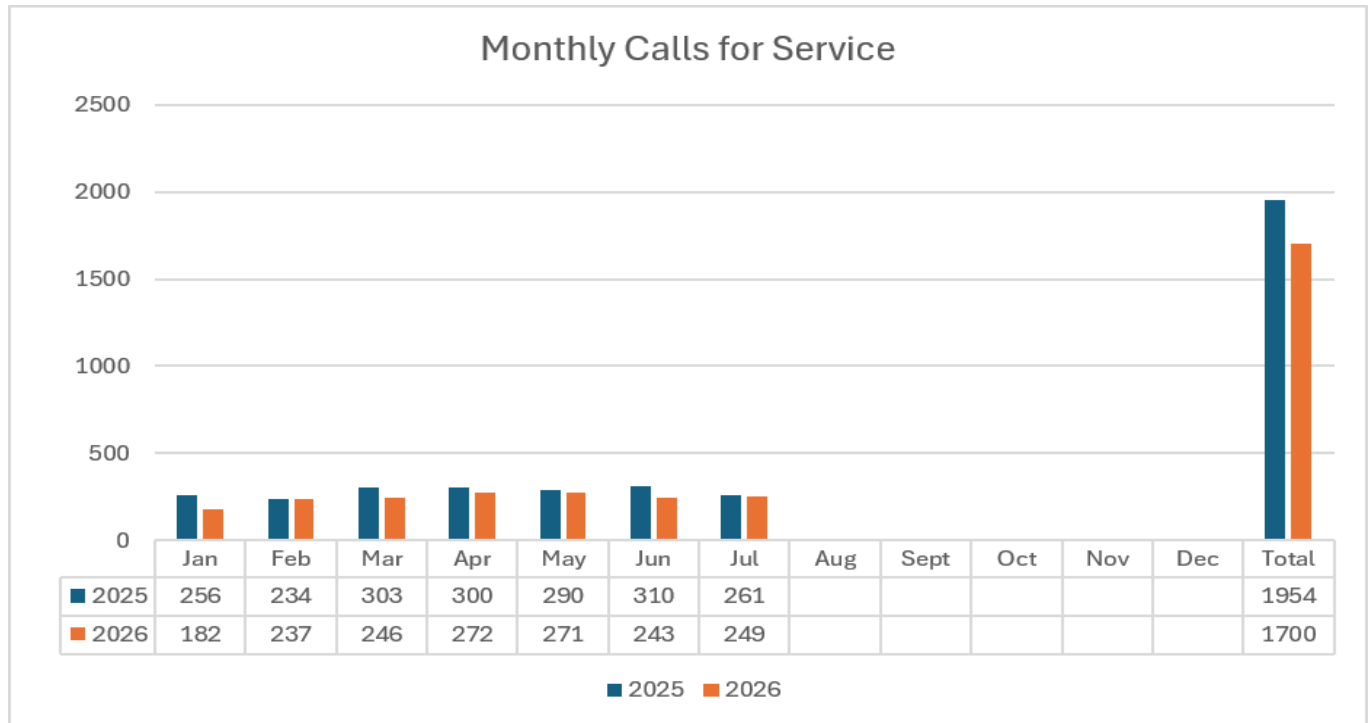
CONSUMERS ENERGY	Electrical	3,774.72
Total: 448 Street Lighting		3,774.72

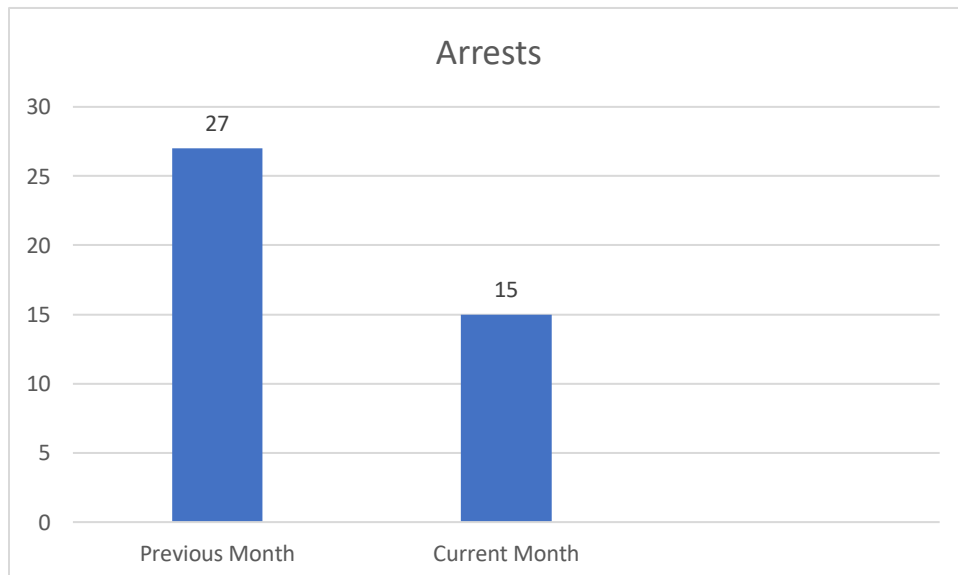
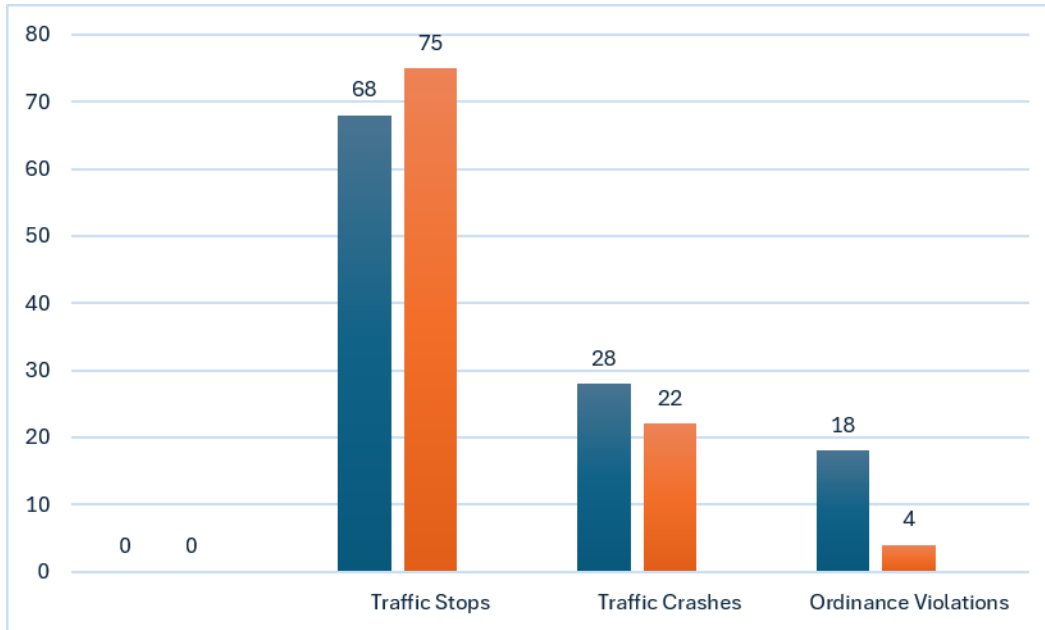
*** GRAND TOTAL ***	96,166.72
---------------------	-----------

Department: 537 WATER DEPT.		
MONROE PLUMBING & HEATING CO.	WATER PROJECT CAPITOL OUTLAY	102,454.58
Total: 537 WATER DEPT.		102,454.58
*** GRAND TOTAL ***		102,454.58

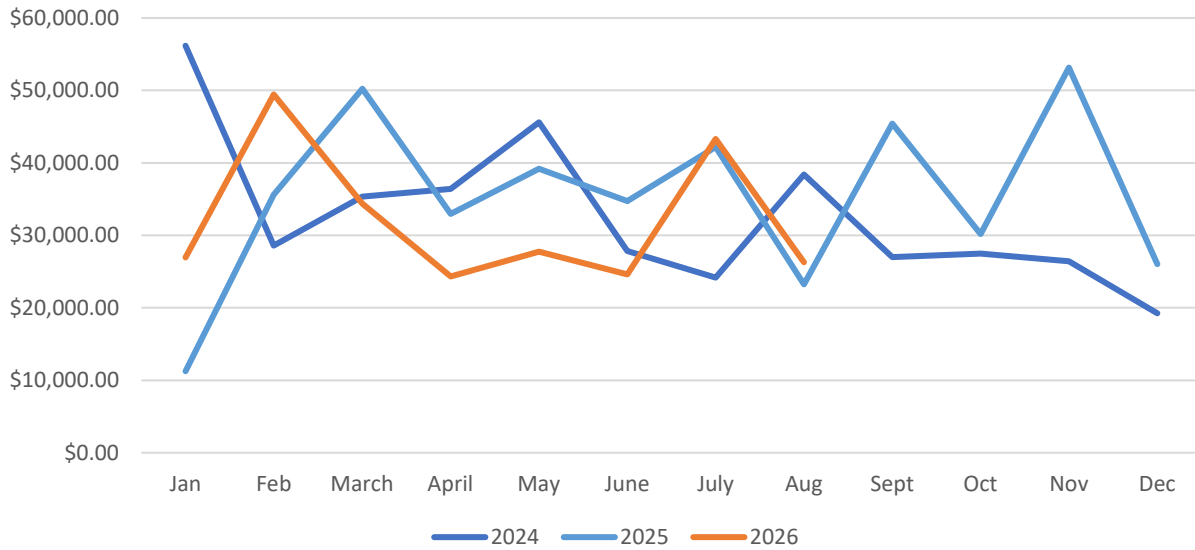


August 2026 Board Report

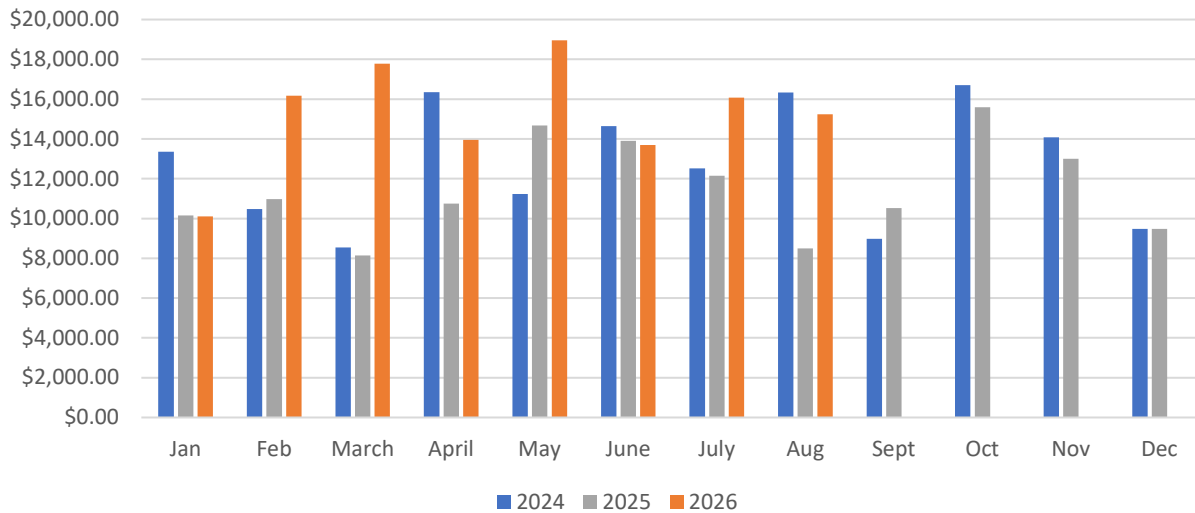




Collected from Accrued



ALS Billing



<u>Type of Write Off</u>	<u>Amount</u>	<u>Revenue</u>	<u>Month</u>	<u>YTD</u>
Manual Contractual Allowance	\$16,795.65	Billed for Ambulance/Fire	\$78,225.00	\$255,923.49
Auto-Contractual Allowances	\$110.12	Collected from Accrued	\$26,308.20	\$257,023.64
Write-Offs	\$135,078.00	Billed to BLS Agency		\$121,967.00
Sent to Collections	\$300.00	EMS Training Billed	\$0.00	
TOTAL	\$152,283.77	TOTAL	\$104,533.20	\$634,914.13

Filter statement

Filters **Days in Core incident onset date/time** 8/1/26 to 8/31/26 | **Incident status** Locked

Madison Township Board Report

Count of Total Incidents

Count of Incidents
253

Fire Calls

Percent of Fire Calls
2.4%
Count of Fire Calls 6

EMS Calls

Percent of EMS Calls
90.1%
Count of EMS Calls 228

Other Calls

Percent of Other Calls
7.5%
Count of Other Calls 19

Filter statement

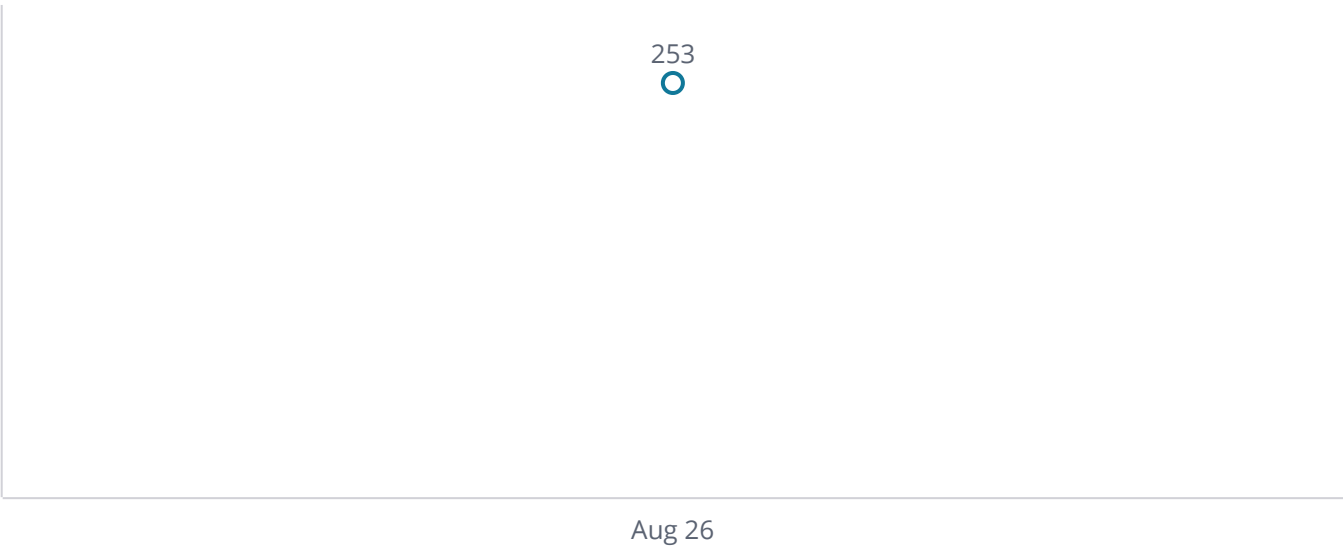
Filters

Days in Core incident onset date/time8/1/26 to 8/31/26 | Incident statusLocked

Incident Count By Month (This Year)

Month	Count of Incidents
08/2026	253
Count of Incidents	253

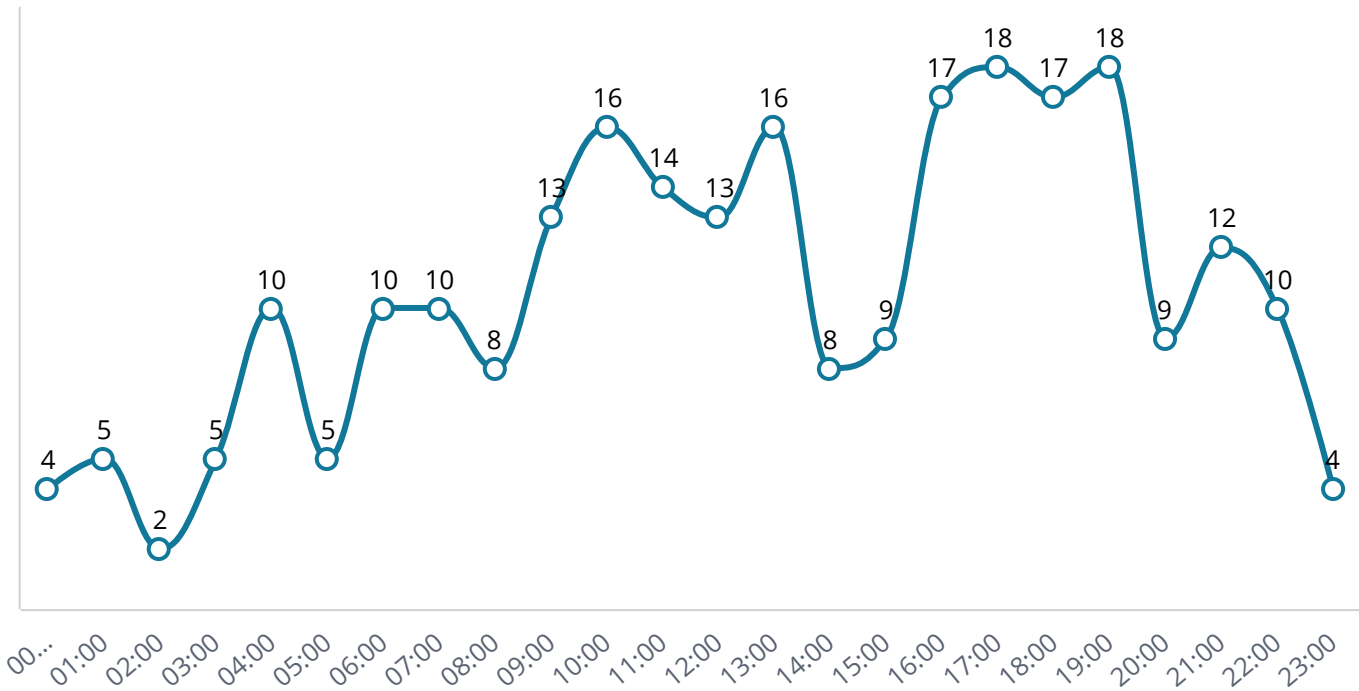
Incident Count By Month (This Year)



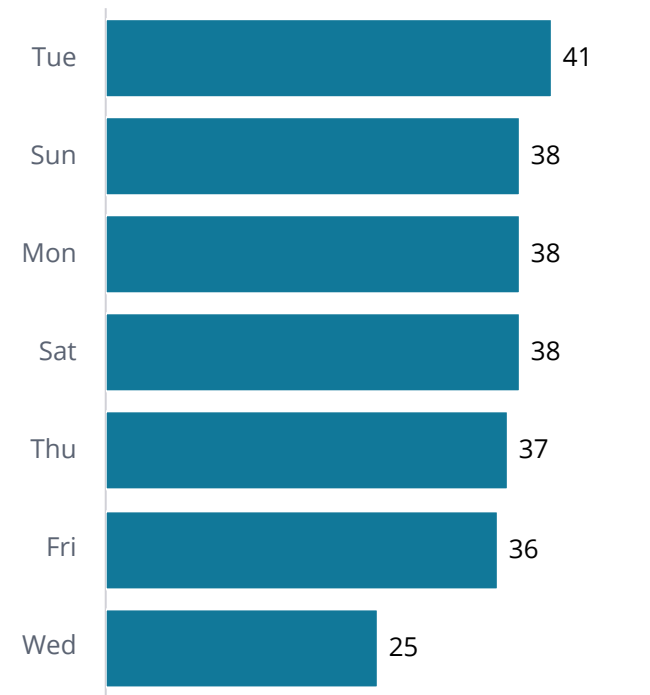
Filter statement

Filters **Days in Core incident onset date/time** 8/1/26 to 8/31/26 | **Incident status** Locked

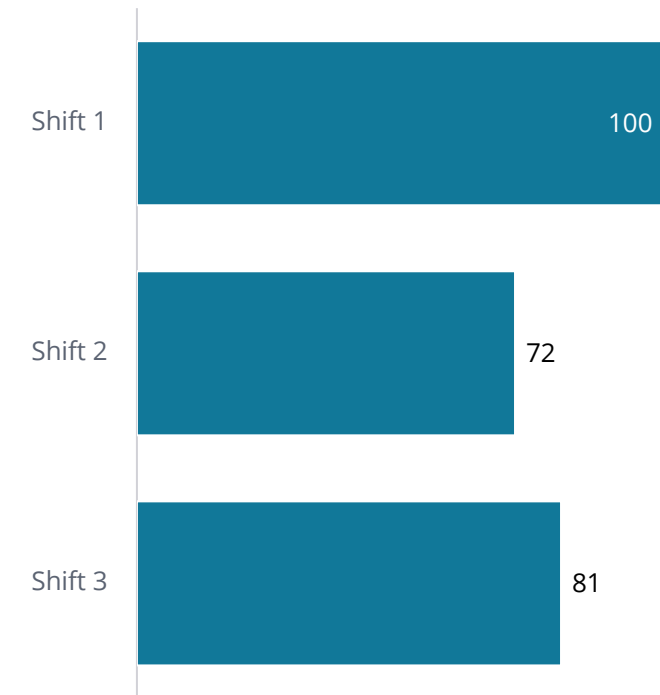
Incident Count by Hour of Day



Incident Count by Day of Week



Incidents by Shift

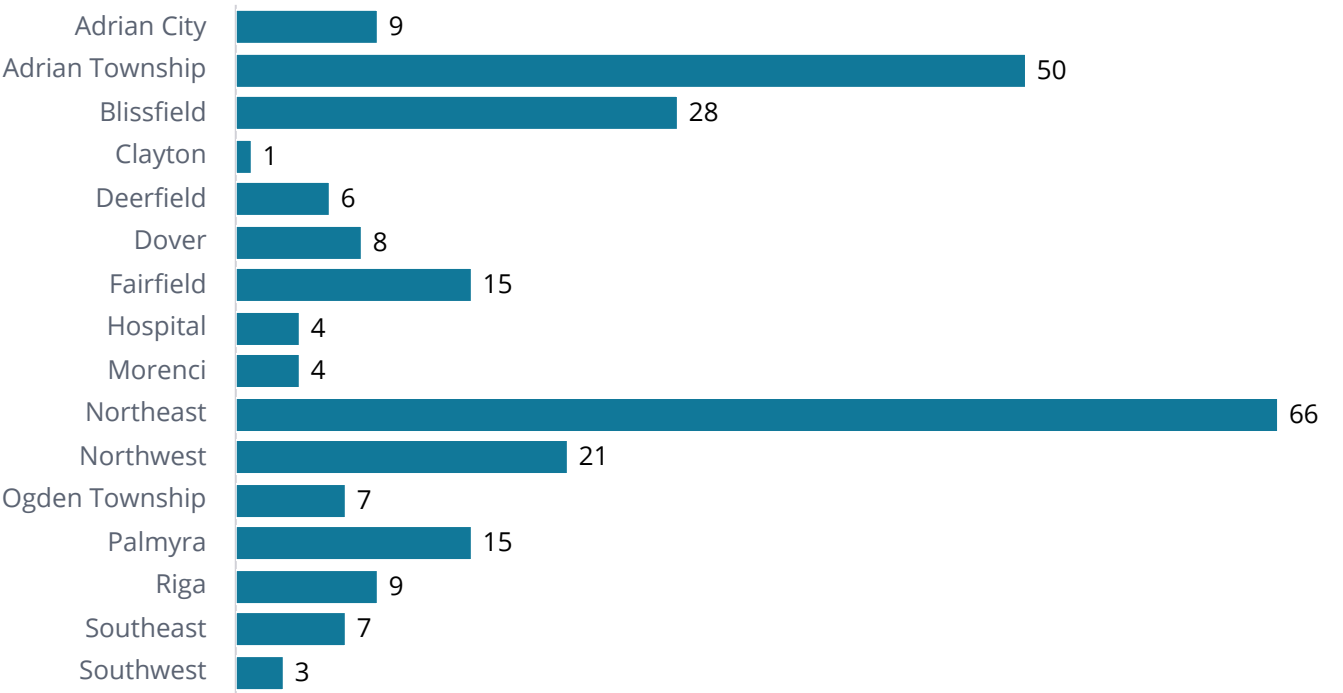


Filter statement

Filters

Days in Core incident onset date/time8/1/26 to 8/31/26 | Incident statusLocked

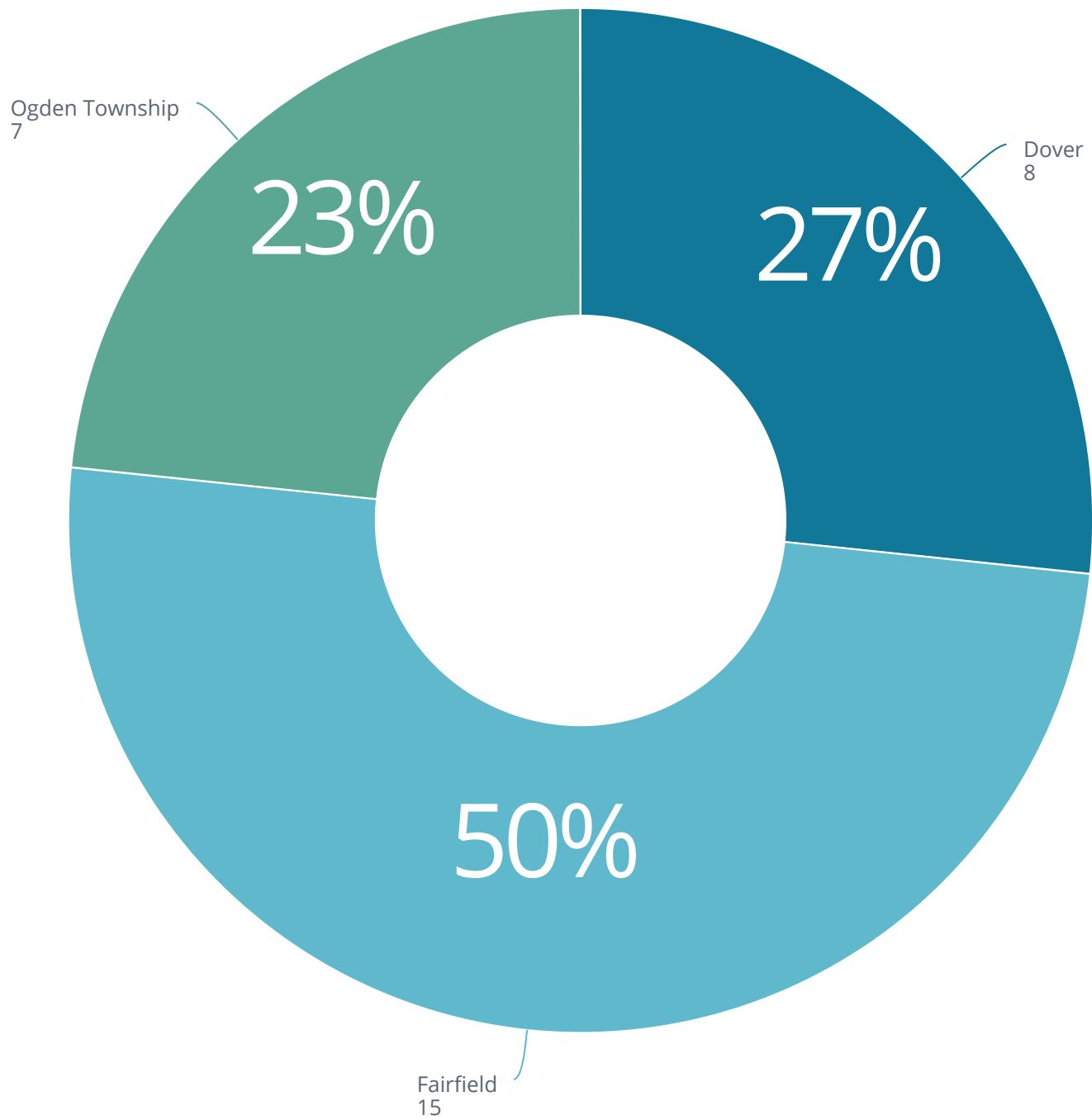
Incidents by District



Filter statement

Filters **Days in Core incident onset date/time** 8/1/26 to 8/31/26 | **Incident status** Locked

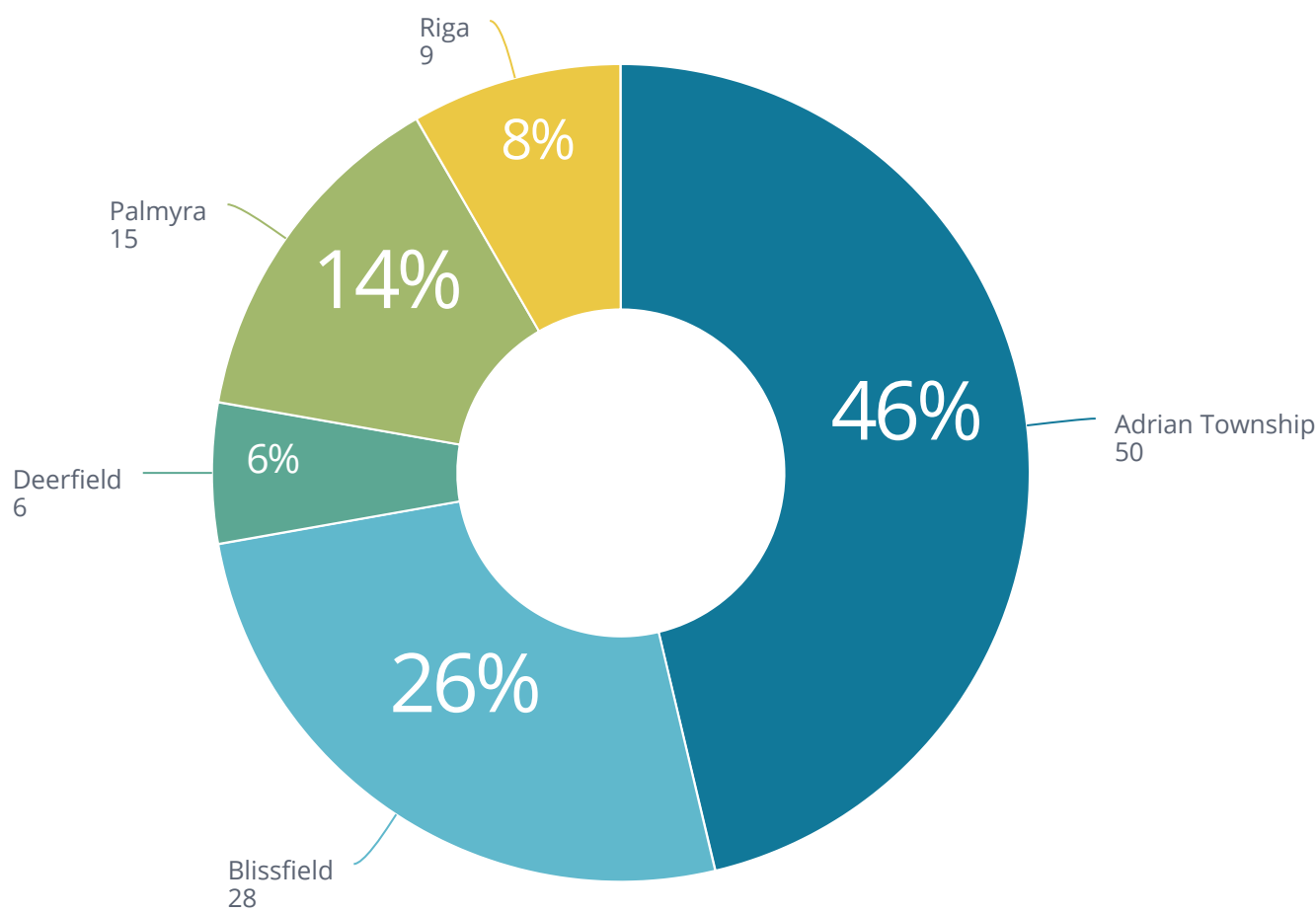
Ambulance Contract Area



Filter statement

Filters **Days in Core incident onset date/time** 8/1/26 to 8/31/26 | **Incident status** Locked

ALS Contract Area



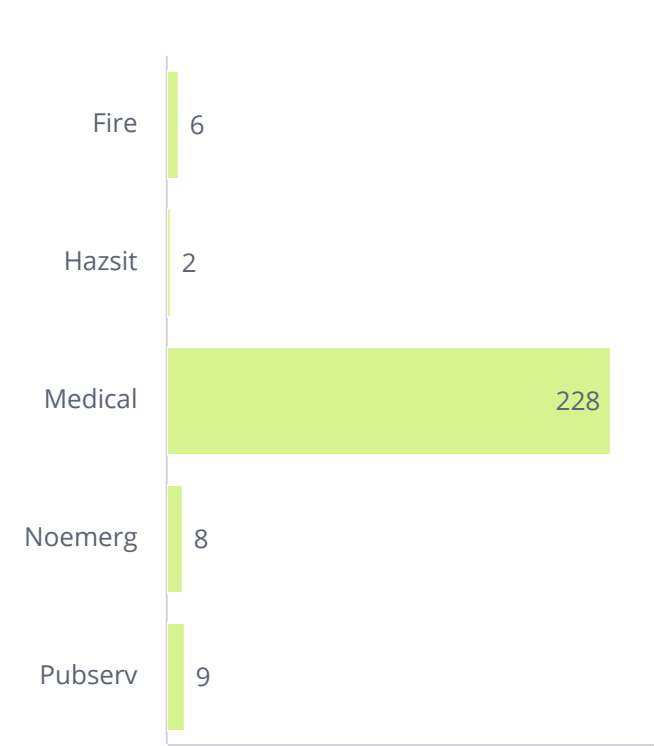
Filter statement

Filters

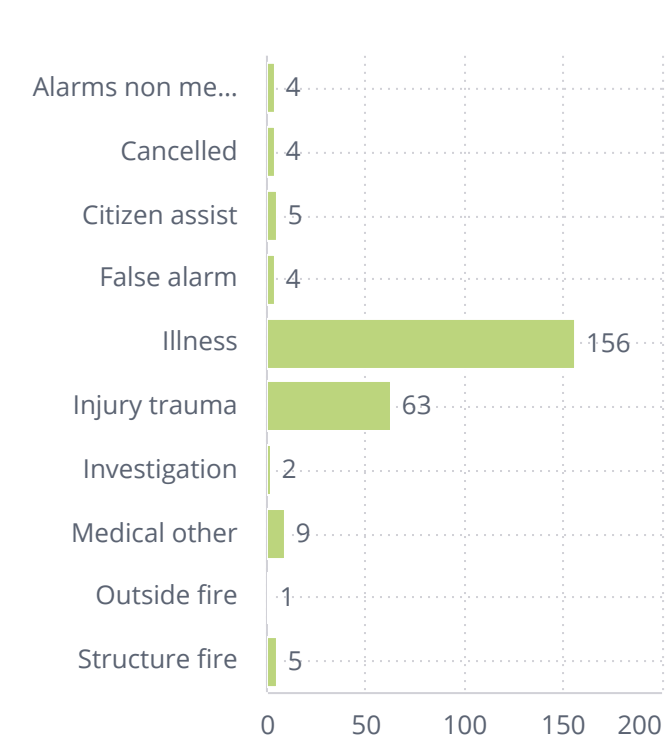
Days in Core incident onset date/time8/1/26 to 8/31/26

Incident statusLocked

Count of Incidents by Category



Counts of incident Type Subcategory



CHARTER TOWNSHIP OF MADISON

Ryan Rank
Supervisor
Janet Moden
Clerk
Harold Gregg
Treasurer

3804 S. Adrian Highway
517-263-9313 Fax 517-263-4569



TRUSTEES

Chad Rodgers
Howard Bales
Norm Schutte
Ralph R. Benschoter

Monthly Building Inspector Report For the Month of August , 2026

50	Inspections Completed
3	Plan Reviews Finalized
2	Plan Reviews in Progress
	Amount of Fees Collected
\$4,896.96	Adrian Twp. - Payment for Inspections
55	Adrian Twp. - Number of Inspections

Violations and Complaint Types Handled

	Township ordinance #
1	Letter of Ordinance Violations
1	Life Safety inspections
	Zoning Issues 35
\$1,090.00	Zoning fee collected
\$22,099.46	Total Income Madison / Adrian Twp

Activitie

Other Activities

Numerous Building Code Questions from Residents
Meetings with the Residents and Contractors On-Site
Written Correspondence and Follow-Up
Research on Issues and Laws
Coordination of Tasks with Other Departments
Administrative Documentation and Input

mit Revenue by Type

08/24/2026

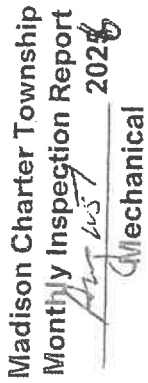
Permit	Entry Type	Entries	Amount
	Building	46	16,112.50
	Electrical	66	3,003.00
	Mechanical	20	810.00
	PLUMBING	34	1,399.00
	Zoning	8	1,090.00
	Totals For Permit:	174	22,414.50
Grand Totals		174	22,414.50

Population: All Records

Transaction.DateToPostOn Between 8/6/2026
12:00:00 AM AND 9/3/2026 11:59:59 PM



Signature: Bill Patterson



Madison Charter Township
Monthly Inspection Report
Aug 6-5-7 2024
CMechanical

Signature: Jim Wick

Type of Inspection

1. Service
2. Final
3. Rough
4. Re-Inspection
5. Fuel Pipe

Result of Inspection

1. Approved
 2. Partial
 3. Disapproved
 4. Not Ready
 5. Cancelled
 6. Needs Reinspection
 7. Inspection Length
 8. Other/Unique Circumstance

Total Permits:	Cost:
Total Inspections:	Cost:
Plan Reviews:	Cost:
	Total Charges:

[illegible]



Madison Charter Township
Monthly Inspection Report
August 2026
Plumbing

Item 9.

Signature: *Terry L. Massingill*

Type of Inspection		Result of Inspection	
1. Service	7. Underground	1. Approved	6. Needs Reinspection
2. Final	8. Shower Panel	2. Partial	7. Inspection Length
3. Rough	9. Sewer Connection	3. Disapproved	8. Other/Unique Circumstance
4. Re-Inspection	10. Water Connection	4. Not Ready	
5. Safety	11. Specialty	5. Cancelled	
6. Site			

Total Permits:	<u>0</u>	Cost: \$	<u>-</u>
Total Inspections:	<u>14</u>	Cost: \$	<u>910.00</u>
Plan Reviews:	<u>0</u>	Cost: \$	<u>-</u>
		Total Charges:	<u>\$ 910.00</u>

Date	Permit Number	Address	Insp	Result	Comments/Details
8/6/2026	PP260033	2016 Green Acres	9	1	
8/6/2026	PP260034	2029 Green Acres	9	1	
8/6/2026	PP260032	2752 Cloverdale	3	1	Upstairs only
8/11/2026	PP260021	3935 Treat Hwy	3	1	
8/11/2026	PP260013	2015 Green Acres	3	1	
8/13/2016	PP260033	2016 Green Acres	10	1	
8/13/2016	PP260034	2029 Green Acres	10	1	
8/20/2026	PP260029	1701 Riversedge Ct.	9/10	1	
8/20/2026	PP260030	1699 Riversedge Ct	9/10	1	
8/20/2026	PP260037	1697 Riversedge Ct	9/10	1	
8/25/2026	PP260035	1701 Riversedge Ct.	7	1	
8/25/2026	PP260036	1699 Riversedge Ct	7	1	
8/25/2026	PP260037	1697 Riversedge Ct	7	1	
8/27/2026	PP250068	3495 Baldwin Hwy	2	1	

						Item 9.

Electrical

Result of Inspection

- | | |
|----------------|-----------------------|
| 1. Approved | 6. Needs Reinspection |
| 2. Partial | 7. Other |
| 3. Disapproved | |
| 4. Not Ready | Total Permits: |
| 5. Cancelled | Total Inspections: |

Cost: _____

Cost: _____

Cost: _____

39



Charter Township of Madison

Department of Public works

August 2026

Water and Sewer Usage

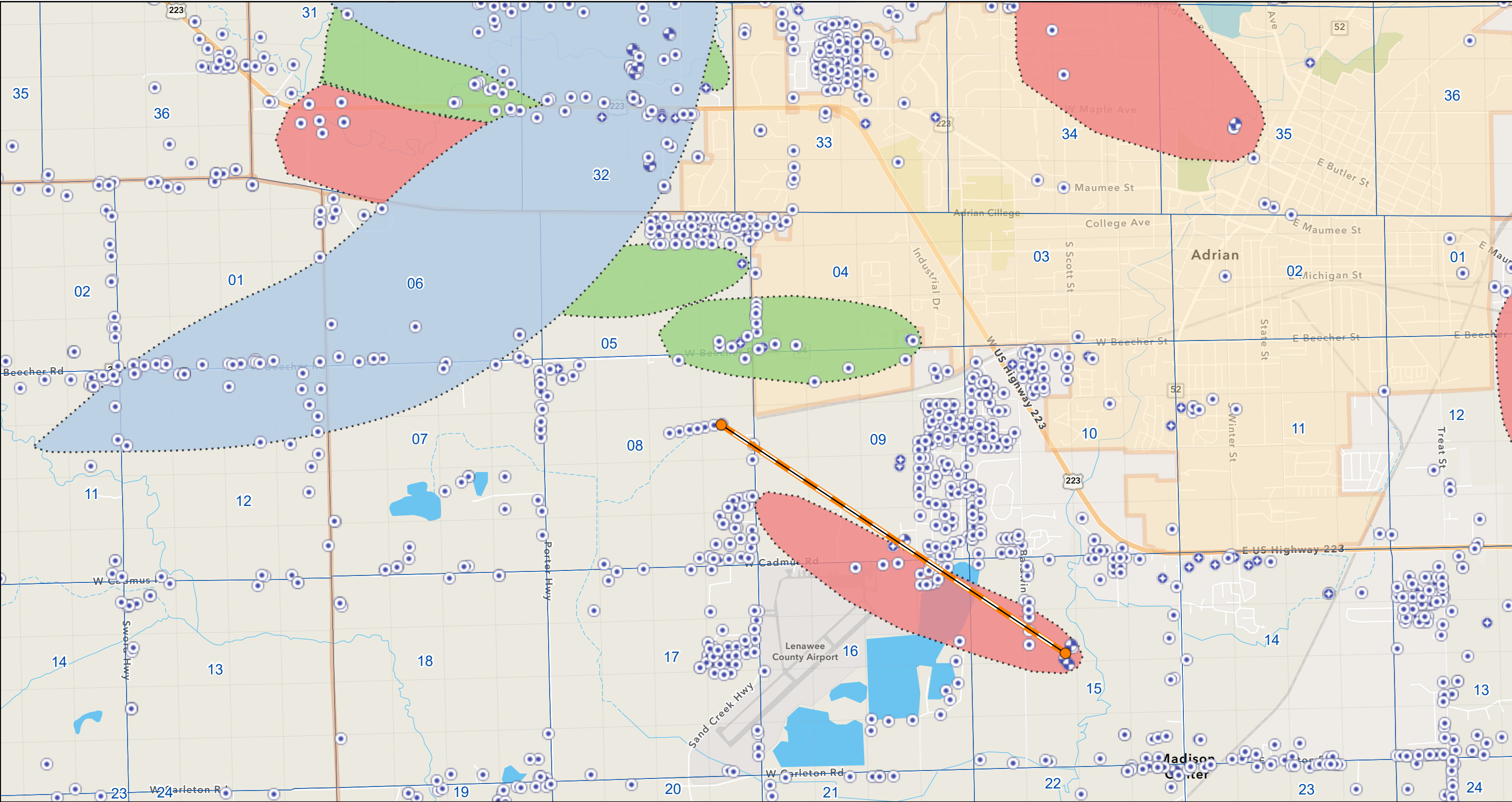
- Water usage for the month of was August 9.8 million gallons.
- Sewer usage for the month of was August 10.2 million gallons.
- Water usage for Fairfield Twp. for the month of August was 1.2 million gallons.

Operations

- Work orders for the month of August were (68)
- Miss Digs for the month of August was (103) All Miss Digs were reviewed and serviced as needed.
- Water meters were read, and all work orders were completed.
- All sewer reads for the month of August were submitted to the City of Adrian.
- Lift stations and generators were inspected for the month of August.
- Monthly operating report submitted to EGLE.
- Backwashing of iron filter as necessary.
- Monthly Drinking water sampling has been completed.
- Wastewater discharge sampling at water treatment plant.

Communications

- Progress has been made with the water meter replacement program in the areas selected and are nearing completion, there are approximately 30-40 properties left that have either not scheduled an appointment for the meter change or are vacant in some cases, we are working with DB Utility assisting in making contact for the remaining properties that are left.
- Hydrant and Watermain flushing for Madison and Fairfield Townships is scheduled for September 28th, 2026, and will take place through October 31st, 2026. During this time residents are reminded that before doing any laundry to check for water clarity before washing any light-colored clothing, if you do experience discolored water, please run the cold water only until it becomes clear from your tap.
- The WTP plant improvement project is nearing completion, the Dpw staff have participated in the start up and commissioning of all the new equipment and controls, The EGLE is scheduled for a site visit of September 3rd, 2026, to review the new plant improvements along with the new well that was drilled and is almost ready to be put into service. We will be meeting with the engineer and general contractor at WTP to go over a final punch list of items that still need to be completed.



9/7/2026, 3:44:36 PM

1:38,936

- Override 1

●

Override 1

—

Override 1 Wellhead Protection Areas

●

Wellologic Wells

●

Type II
- Type I

●

All Other Wells
- Type 2 Provisional WHPA

■

Type 1 Traditional WHPA

■

Type 1 Provisional WHPA
- Cities

■

Quarter-Quarter Sections

■

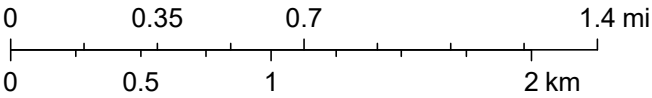
Counties

■

Townships

■

Sections



Drinking Water and Environmental Health Division,
Michigan Department of Environment, Great Lakes, and
Energy (EGLE), State of Michigan, Center for Shared
Solutions., Center for Shared Solutions, Department of
Technology, Management, and Budget, State of Michigan



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING

Item 10.



PHILLIP D. ROOS
DIRECTOR

TO: Md Abdullah Al Masud, District Engineer, Jackson District Office, Field Operations Section, Drinking Water and Environmental Health Division

FROM: Brock Howell, Hydrogeologist, Source Water Unit, Environmental Health Section, Drinking Water and Environmental Health Division

DATE: September 6, 2024

SUBJECT: Aquifer Test Review – “Type I Hydrogeological Evaluation Report Well 5 (Future Production Well 5)” Madison Charter Township, Section 15, Madison Township, Lenawee County, Michigan, WSSN 4006

Summary

The Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD), Source Water Unit (SWU), has reviewed the aquifer report “Hydrogeological Evaluation Report, Baldwin Road Well Field Well #5, Madison Charter Township, Lenawee County, Michigan”, which was submitted by Tetra Tech in February 2024, and the redo aquifer testing data submitted in June 2024.

Based upon the information provided, Well 5 passed the screening process according to the Adverse Resource Impact (ARI) criteria of Part 327, Great Lakes Preservation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Madison Charter Township is looking to add a Type I Public Supply Well (Well 5) with a proposed capacity of 620 gallons per minute (gpm) to their current system capacity. As such, The Madison Charter Township contracted Tetra Tech to conduct a hydrogeological study for the proposed Type I well (Well 5). EGLE approved the installation of a test production well for the Madison Charter Township in July 2023. Well 5 was completed in November 2023, and the initial 24-hour aquifer pumping test commenced on December 14, 2023, which was evaluated in March 2024, and deemed insufficient due to poor oversight and improper development during well construction. Well 5 was redeveloped and a second 24-hour aquifer test was conducted at Well 5 on June 6, 2024, at a rate of 620 gpm. This report provides a hydrogeologic evaluation of Well 5, with a proposed capacity of 620 gpm. Monitoring wells (OW-2 and OW-3) associated with the aquifer test of Well 5 were used for the current hydrogeological analysis, with Well 3 pumping continuously between 215 gpm and 302 gpm.

The Static Water Levels (SWLs) were measured in Well 5, OW-2, and OW-3 for the current evaluation following appropriate DWEHD policy and procedure ODWMA-399-003. Based on the SWLs collected, groundwater flow is relatively flat with a slight northerly gradient. Regionally groundwater flows to the east-northeast.

Results of the June 2024, aquifer test were analyzed using the method of Theis (1935). Recovery data was subjected to an analysis using the Agarwal (1980) method. Assuming an aquifer thickness of 90 feet, Tetra Tech estimated a transmissivity (T) value of 8081.14 square feet per day (ft²/day). The storativity (S) value estimated by Tetra Tech was 0.01292.

As part of SWU's review, a re-analysis of the time-drawdown data provided for this project was completed using several methods that included the Cooper-Jacob (1946), Theis (1935), Papadopulos-Cooper (1967), and Agarwal (1980) methods. Assuming an aquifer thickness of 90 feet with partial penetrating wells, SWU estimated the T associated with Well 5 to be 7,604 ft²/day. SWU estimated the S associated with Well 5 to be 0.0152

Assuming a SWL of approximately 2.46 feet below ground level (bgl) in Well 5, the predicted 100-day pumping water level in Well 5 was estimated by Tetra Tech to be approximately 36.56 feet bgl at 620 gpm with their estimated 75 percent well efficiency.

Additionally, SWU staff re-analyzed the 100-day drawdown pumping continuously at a rate of 620 gpm. The calculated/estimated well-efficiency is approximately 62 percent. Applying the 62 percent efficiency modifier to the 100-day drawdown, the 100-day pumping water level is estimated to be 43.91 feet bgl at 620 gpm. This estimation suggests that there will be approximately 111 feet of remaining drawdown available in the well if the pump is set at 155 feet bgl, which would be five feet above the top of the screen.

Based on the analysis of the hydraulic characteristics, subsurface lithology, and the resultant characterization, indicates that the aquifer associated with Well 5 behaves as a confined aquifer.

From the information provided by Tetra Tech, SWU staff concluded that Well 5 can support the capacity of 620 gpm. However, Well 5 should *not* exceed 892,800 gallons per day (gpd) for any given 24-hour cycle. Based on the 100-day drawdown calculated and the potential for interference from other wells, it is suggested that the pump intake should be placed at a depth of 155-feet bgl, which would be five feet above the top of the screen.

According to Tetra Tech, the water quality analysis at the site from Well 5 did not exceed primary drinking water standards. However, Iron was detected above secondary drinking water criteria.

Site Location

Water well records in the report place Well 5, in Madison Township, Section 15 (T07S-R03E), Lenawee County, Michigan. The Site is located 0.43 mile south of Cadmus Road, and 1,190 feet northeast (71 degrees) of service road entrance onto Baldwin

Highway in Madison Charter Township, Michigan. The Site is located on the Jasper, Michigan, USGS 1:24,000 quadrangle, Lenawee County, Michigan.

The well locations for Well 5, Well 3, OW-2, and OW-3 were generally provided in accordance with the DWEHD policy and procedure ODWMA-399-003, "Aquifer Test Requirements for Public Water Supply Wells." Information for these wells is also included in Wellogic, the state-wide groundwater database.

Latitude and longitude information for these wells were collected with a hand-held global position system and interpolation-map, and can, therefore, be considered accurate to the level of precision required. A Wellogic identification number (Wellogic ID number), as well as the latitude and longitude of each well included in the aquifer characterization of this site, are provided in Table 1.

Table 1. Location Information

Well Identification	Wellogic ID Number	Latitude (degrees)	Longitude (degrees)
Well 5	46000020044	41.868465 °	-84.05316 °
Well 3	46000000170	41.867812 °	-84.053561 °
OW-2	46000019999	41.868358 °	-84.053072 °
OW-3	Not yet available	41.868474 °	-84.053527 °

Corrections or additions to location information should be directed to Anita Ladouceur, Environmental Quality Analyst, SWU, at 517-643-2574.

Area Hydrogeology

Well 5 lies within an area where the glacial and surficial geology (drift) is mapped as glacial outwash sand and gravel, and postglacial alluvium. The material consists of pale brown to pale reddish brown, fine to coarse sand alternating with layers of small gravel to heavy cobbles. The drift is a mixed lithology of sedimentary, igneous, and metamorphic rocks that are well- to poorly-sorted, but generally well-stratified, although in places cross-bedded. Morphologically the outwash occurs as fluvial terraces along present and abandoned drainage ways, as fans and sheets flanking end moraines, and as deltas along glacial lake margins. The deposits may also be present as narrow belts of Holocene alluvium inset below outwash terraces along present streams (Farrand and Bell, 1982). Drift thickness at the well site is probably in the range of 101 to 200 feet, although in the surrounding area the drift is mapped with a thickness of 51 to 100 feet. As an aquifer the drift is usually unconfined at or near the surface and present as interbedded aquifers, aquitards, and aquicludes with depth (WMU, 1981).

Review of the U.S. Geological Survey's, *Jasper, MI Quadrangle, Michigan, 7.5- minute Series Topographic Map*, indicates the land surface elevation is approximately 760 feet above mean sea level (amsl), and 760 feet amsl on both Google Earth Pro, and USGS topoview spot elevation web-service.

Stratigraphically, the uppermost bedrock in the vicinity of Well 5 is mapped as early Mississippian age Coldwater Shale (Milstein, 1987). The Coldwater Shale is normally not considered an aquifer because it does not provide water to wells in sufficient quantities and the water is generally of poor quality.

Summary of Well Construction

Well 5, OW-2, and OW-3 were used for the current hydrogeologic evaluation with Well 3 pumping continuously between 215 and 302 gpm. Table 2 summarizes the well information, including the well ID, Wellogic ID number, casing diameter, casing depth, and borehole depth.

Table 2: Summary of Well Construction

Well Identification	Wellogic ID Number	Casing Diameter (inches)	Casing Depth (feet bgl*)	Borehole Depth (feet bgl*)
Well 5	46000020044	12	160	185
Well 3	46000000170	10	135	180
OW-2	46000019999	2	180	187
OW-3	Not yet available	2	185	190

*bgl = below ground level

Driller's logs depict the unconsolidated drift material to an approximate depth of 190 feet below ground surface to a total depth explored of approximately 190 feet below ground surface. The 190 feet of unconsolidated material is depicted as predominantly clays with sand layers in the upper 100 feet followed by sand and gravel with minor clay to the total depth explored.

Groundwater Flow Direction and Gradient

SWLs were measured in the three wells (Well 5, OW-2, and OW-3) used for the current hydrogeologic evaluation before the pumping test, according to DWEHD policy and procedure ODWMA-399-003. Based on the SWLs collected, groundwater flow is relatively flat with a slight northerly gradient. Regionally groundwater flows to the east-northeast. Static water elevations at the site are shown in Table 3.

Table 3: Static Water Elevation Data

Well Identification	Top of Casing (feet amsl)	Static Water Levels from Top of Casing* (feet)	Static Water Level* (feet bgl)	Static Water Elevation* (feet amsl)	Distance from WELL 5 (feet)
Well 5	768.42	6.38	2.46	762.05	0
Well 3	NM	NM	NM	NM	262
OW-2	768.50	6.08	3.33	762.42	45.5
OW-3	769.51	7.50	2.83	762.04	100

*Based on static water levels collected on June 6, 2024, Prior to starting the constant rate test. NM = Not measured

Summary of Aquifer Tests and Data Analysis

A 24-hour aquifer test was conducted at Well 5 on December 14, 2023, which was evaluated in March 2024, and deemed insufficient due to poor oversight and improper development during well construction. A follow up down-well camera investigation confirmed the poor development was the case. Well 5 was redeveloped and a second 24-hour aquifer test was conducted at Well 5 on June 6, 2024. The June 2024, aquifer test was completed at a rate of 620 gpm. Changes in water levels were measured and recorded in Well 5, OW-2, and OW-3. The monitoring wells OW-2 and OW-3 are located 45.5 and 100 feet away from Well 5, respectively.

Tetra Tech analyzed the time-drawdown and recovery data to obtain aquifer hydraulic characteristics. The time-drawdown data was analyzed using the method of Theis (1935). Recovery data was subjected to an analysis using the Agarwal (1980) method. The analyses provided T and S values as shown in Table 4.

Table 4: Summary of Consultant's T and S Values

Wells Analyzed	Solution Method	Transmissivity (T) (ft ² /day)	Storativity (S) (Unitless)
OW-2	Theis (1935)	7,790.40	0.03
OW-2	Agarwal (1980)	7,648.71	0.01896
OW-3	Theis (1935)	8616.50	0.002686
OW-3	Agarwal (1980)	8268.95	0.000016
Average		8081.14	0.01292

For the aquifer associated with Well 5, Tetra Tech estimated an average T value of 8081.14 ft²/day for the aquifer test conducted in June 2024. The average S value was estimated to be 0.01292 (see Table 4). The aquifer thickness was reported to be approximately 90 feet thick.

SWU staff re-analyzed the time-drawdown data provided for this project using several methods that included the Cooper-Jacob (1946), Theis (1935), Papadopulos-Cooper (1967), and Agarwal (1980) methods. The analysis was completed using the aquifer analysis software AQTESOLV for Windows, version 4.50 (Duffield, 2007). From these analyses, the Papadopulos-Cooper (1967) and Agarwal (1980) methods show the most reasonable analysis given the associated lithology and data and information provided by Tetra Tech for the Madison Charter Township, Well 5 site.

Assuming an aquifer thickness of 90 feet with partial penetrating wells, SWU estimated the T associated with Well 5 to be 7,604 ft²/day. SWU estimated the S associated with Well 5 to be 0.0152.

The response of the aquifer to the withdrawal of groundwater and the resultant characterization indicates that the aquifer associated with Well 5 behaves as a confined aquifer.

100-Day Drawdown

It is an accepted practice to predict drawdown for 100 days of continuous pumping with no recharge to the aquifer. Tetra Tech used a method similar to the AQTESOLV® Forward Solution from the late-drawdown data to 100 days, the average hydraulic parameter values summarized in Table 4 were used as inputs to the analytical solution, and the 100-day safe yield values for Well 5 were estimated with Well 5 pumping at a rate of 620 gpm. Assuming a SWL of approximately 2.46 feet bgl in Well 5, the predicted 100-day pumping water level in Well 5 was estimated to be approximately 36.56 feet bgl with their estimated 75 percent well efficiency. This estimation suggests that there will be approximately 118 feet of remaining drawdown available in the well if the pump is set at 155 feet bgl, which would be five feet above the top of the screen.

SWU staff re-analyzed the 100-day drawdown pumping continuously at a rate of 620 gpm. The calculated/estimated well-efficiency is approximately 62 percent. Applying the 62 percent efficiency modifier to the 100-day drawdown, the 100-day pumping water level is estimated to be 43.91 feet bgl at 620 gpm. This estimation suggests that there will be approximately 111 feet of remaining drawdown available in the well if the pump is set at 155 feet bgl, which would be five feet above the top of the screen.

Tetra Tech concludes that Well 5 can safely yield 620 gpm for 100 days and suggested a safe pump setting for Well 5 to be at least 155 feet bgl. SWU agrees with the suggested safe pump setting of 155 feet bgl for Well 5.

Interference

Interference is defined as the drawdown in a well caused by pumping a nearby well or wells. The total effect on any one well is the total of all drawdown interferences created by nearby pumping wells (Driscoll, 1986). Effects of interference, especially in confined aquifers for extended periods of pumping, can be far reaching. It appears from the derivative analysis of the time-drawdown data performed by SWU, that Well 5 experienced some minor cyclical interference during the aquifer test suggesting that nearby wells were potentially cycling on and off within the respective radius of influence.

Conclusion and Recommendation

Based on the information presented in the report along with other supporting documentation submitted by Tetra Tech, SWU staff concluded that Well 5 can support the capacity of 620 gpm. However, Well 5 should *not* exceed 892,800 gpd, for any given 24-hour cycle. Based on the 100-day drawdown calculated and the potential for interference from other wells, it is suggested that the pump intake should be placed at a depth of 155feet bgl, which would be five feet above the top of the screen.

cc: Dana DeBruyn, EGLE
Travis Bauer, EGLE

References

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June 26, 2023

Md Abdullah Al Masud
District Engineer
Michigan Department of Environment, Great Lakes, and Energy
301 East Louis Glick Hwy.
Jackson, Michigan 49201

Subject: Madison Township New Test Production Well & Request for Approval – Updated with Tritium Results

Md Abdullah Al Masud:

Tetra Tech, on behalf of Madison Township (Township) is requesting Michigan Department of Environment, Great Lakes, and Energy (EGLE) approval of a new test production well (Well #5) at the Baldwin Road Well Field (WF) located in Madison Township, Lenawee County, Michigan (Figure 1). The Township would like EGLE to consider granting a variance from the 200-feet minimum isolation distance because of the confined nature of the aquifer at the WF and surrounding area as described in the Well Field Evaluation section of this letter. Reducing the isolation zone to 100-feet as depicted on Figure 2, would allow for Well #5 to be installed at a location on the property that minimizes the potential well interference from the operation of existing wells at the WF.

Project Background

The Township operates two wells (Well #3 and Well #4) and are installing an additional well (proposed #5) to have redundancy at the WF. The Township anticipates that near-term water demand from the Township will remain the same and are not looking for additional capacity at this time. The Township is expecting that Well #5 can be rated at 620 gallons per minute based on existing WF information.

WF treatment improvements will also include electrical improvements, chemical improvements, an additional iron removal filter and an additional water treatment discharge basin as located on Figure 2. These will be designed, and a permit application submitted separately from this well request.

Well Construction and Location

Well #5 will be constructed similarly to Wells #3 and Well #4. Table 1 on the following page, provides well construction information.

Table 1. Well Construction Summary

Well Name	X-Coordinate* Decimal Degrees	Y-Coordinate* Decimal Degrees	Casing Diameter/ Type	Well Depth	Screen Interval/Slot	Capacity gallons per minute
Well #3	-84.053487	41.867826	10-inch/Steel	165-feet	135 to 165-feet/40	620
Well #4	-84.052499	41.868149	10-inch/Steel	190-feet	160 to 190-feet/30	620
Proposed Well #5	-84.053159	41.868541	10-inch/Steel	165 to 190-feet**	135 to 190-feet**/30	620

* Estimated

**To be adjusted based on field conditions.

Water Well and Pump Records for Well #3 and Well #4 are provided in Attachment I. A proposed Well Construction Diagram is provided on Figure 3.

Well Field Evaluation

Tetra Tech has completed a preliminary review of the regional geology and aquifer parameters for the WF. Our sources of information included Water Well and Pump Records for Well #3 and Well #4 (Attachment I), as well as private wells within an approximately 2-mile radius of the existing wells, and a Wellhead Protection Program (WHPP). Attachment II includes the private well logs that appear to be representative of the local geology and Figure 4 depicts the location of the private wells and associated observed geology.

The WHPP indicates that a provisional wellhead protection area delineation was created using regional aquifer information and a groundwater model. Since site-specific aquifer parameters were not used in the model or available from the Township or EGLE, Tetra Tech relied on the information provided in the Water Well and Pump Records to develop assumed aquifer parameters as follows:

- The aquifer at the WF consists of an approximately 65-feet thick layer of sand and gravel from an estimated depth of 165 to 190 feet.
- Based on surrounding Water Well and Pump Records, the aquifer is confined (overlain by a continuous clay layer) and extends to the north, east, south and west of the WF. Based on the information for wells depicted on Figure 4, the average thickness of the confining layer is 70-feet. In addition, Well #3 and Well #4 are flowing wells indicating artesian, or confining, conditions.
- At the suggestion of EGLE during a March 23, 2023 visit to the WF, water samples were collected from Well #3 and Well #4 on May 9, 2023 and were submitted to Isotech for laboratory analysis of tritium. Results are provided in Attachment III and indicate that tritium was not detected above the laboratory's reporting levels. This indicates that the groundwater in the aquifer has not been exposed to the atmosphere since at least the 1960's and is therefore within a confined system.
- The range of transmissivity is 40,000 to 70,000 gallons per minute per foot (gpm/ft) as estimated with available data as follows:
 - Pumping and water level information on the Water Well and Pump Record for PW-2 indicates a specific capacity of 21 gallons per minute (gpm) per foot of drawdown. This

TETRA TECH

- value is derived from the drawdown (29 feet) after 8 hours of pumping at a rate of 620 gpm. Using the specific capacity of 21 gpm/ft and an aquifer thickness of 65-feet, the theoretical aquifer transmissivity is approximately 40,000 gpm/ft. This value is in general agreement with values from United States Geologic Survey (USGS) Water Supply Papers for coarse sand aquifers.
- Pumping and water level information on the Water Well and Pump Record for PW-3 indicates a specific capacity of 44 gpm per foot of drawdown. This value is derived from the drawdown (14 feet) after 72 hours of pumping at a rate of 620 gpm. Using the specific capacity of 44 gpm/ft and an aquifer thickness of 65-feet, the theoretical aquifer transmissivity is approximately 70,000 gpm/ft. Again this value is in general agreement with values from USGS Water Supply Papers for coarse sand aquifers.

We look forward to your review and response of our proposed approach to the construction of Well #5 and its location.

Sincerely,



Lesla Sweet Richardson, CPG, CHMM
Principal Hydrogeologist

Attachments:

Figure 1 – Site Location Map

Figure 2 – Updated Proposed Test/Production Well Location

Figure 3 – Proposed Well #5 Diagram

Figure 4 – Regional Well Map

Attachment I - Water Well and Pump Records for Well #3 and Well #4

Attachment II – Regional Water Well and Pump Records

Attachment III – Tritium Laboratory Report

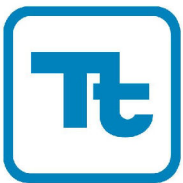
CC: Tim Watterson, Madison Township

Patrick Brennan, EGLE

FIGURES



0 0.5 1 Miles

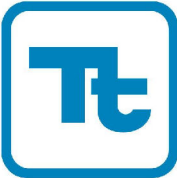


Madison Township
SITE LOCATION MAP

FIGURE

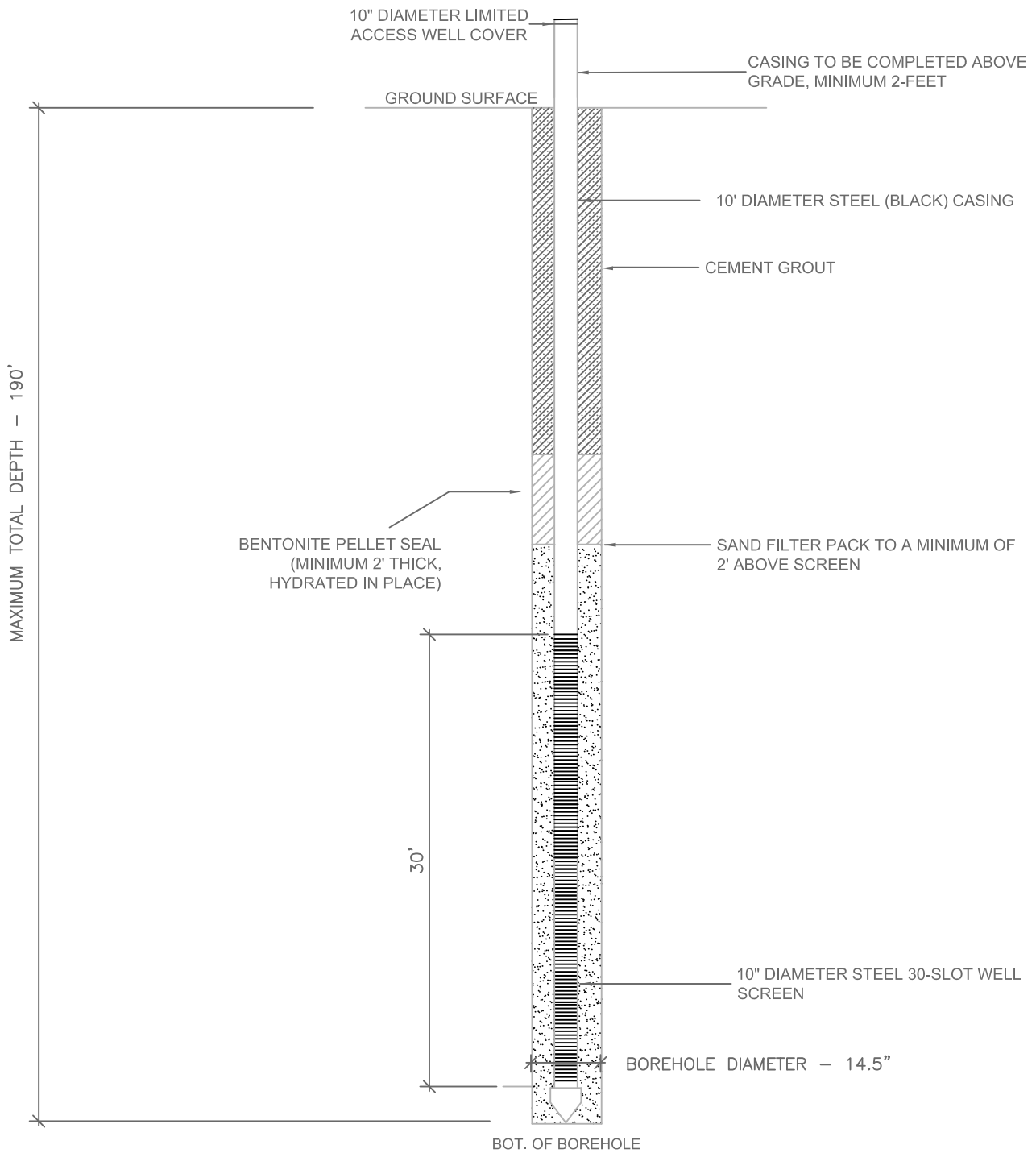


Well Name	X-Coordinate*	Y-Coordinate*	Casing Diameter (inches)/ Type	Well Depth (feet)	Screen Interval (feet)/Slot	Capacity Gallons per Minute
Well #3	-84.053487	41.867826	10/Steel	165	135 to 165/40	620
Well #4	-84.052499	41.868149	10/Steel	190	160 to 190/30	620
Proposed Well #5	-84.053159	41.868541	10/Steel	165 to 190-feet**	135 to 190**/30	620



Madison Township
UPDATED PROPOSED TEST/PRODUCTION WELL LOCATION

FIGURE



TETRA TECH

www.tetrattech.com

1136 OAK VALLEY DR, SUITE 100
ANN ARBOR, MICHIGIAN

MADISON TOWNSHIP

PROPOSED WELL #5
DIAGRAM

Project No.: 117-0526376

Date: 02/18/23

Designed By: LSR

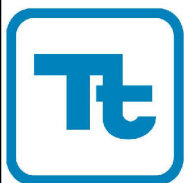
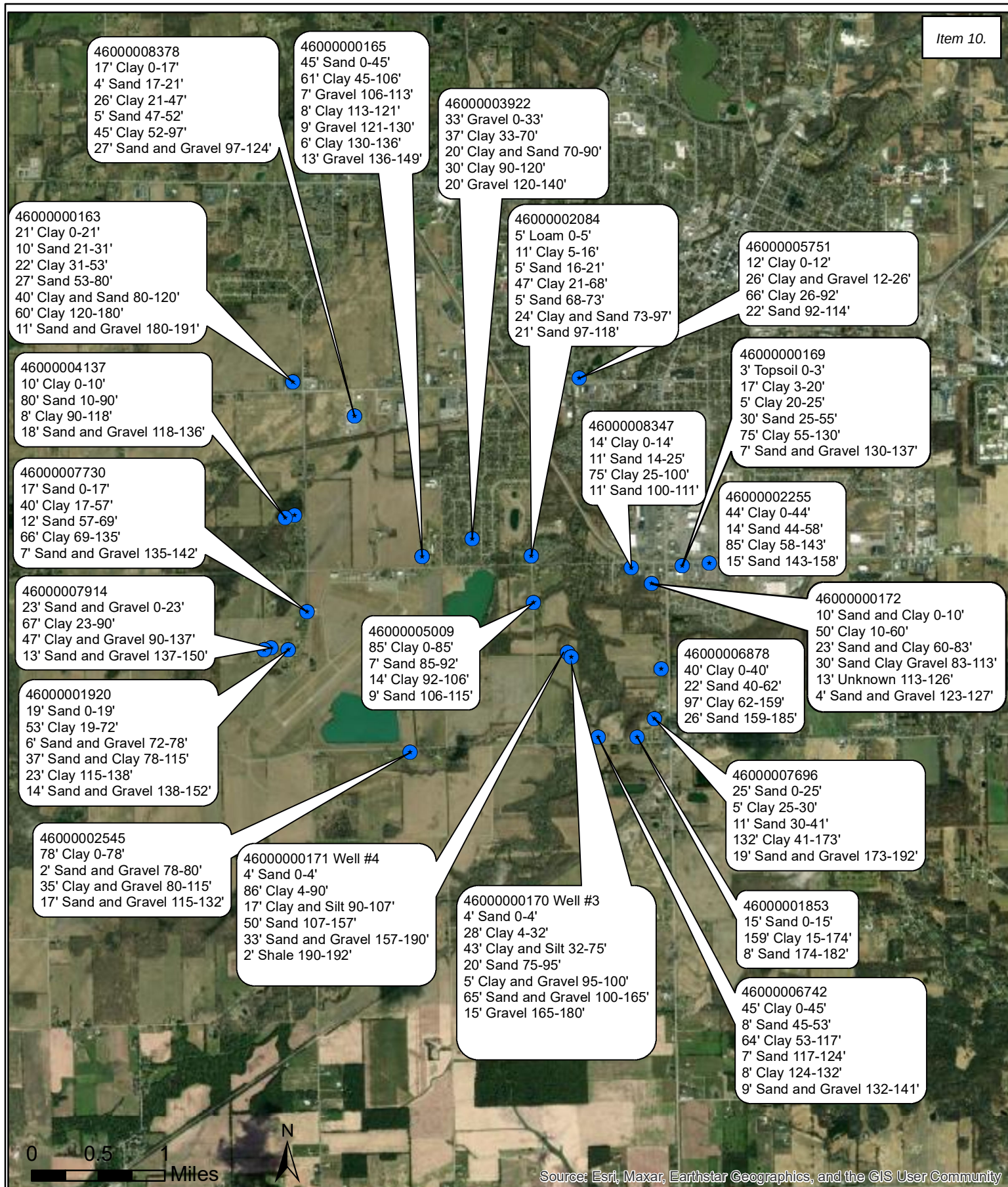
FIGURE 3

Copyright: Tetra Tech

NOTES TO PROPOSED WELL #5 DIAGRAM:

1. Steel pipe specifications – The steel pipe specification is in accordance with Michigan well code ([Part 127, R 325.1626](#)) which calls for new steel pipe manufactured in compliance with ASTM A53, schedule 40 (for pipe up to 10" diameter) with a certification mark verifying the pipe is in compliance with ANSI/NSF standard 14.
2. The cement type for grouting is neat cement (type I, Ia, or high-early type III) or cement/bentonite grout which are acceptable per Part 127, R 325.1633a.
3. The calculations for screen entrance velocity is based on Johnson Screens recommendation for an average entrance velocity that does not exceed 0.1 ft/second and the desired pumping rate of 620 gallons per minute as summarized in the table below:

Screen Diameter (In)	Screen Slot Size (thousands of an inch)	Intake area (open area - From Johnson's Table)	Multiply Factor	Transmitting Capacity (gpm per foot of screen)	Assumed - Desired pumping rate (gpm)	Feet of screen needed to achieve desired pumping rate
10" pipe size	30	68	0.31	21.08	620	29.4



Madison Township
REGIONAL WELL MAP

FIGURE

ATTACHMENTS

Attachment I
Water Well and Pump Records for Well #3 and Well #4



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No:	Permit No:	County: Lenawee	Township: Madison				
Well ID: 46000000170 Elevation: 765 ft. Latitude: 41.8675286712 Longitude: -84.0537883218 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 15	Well Status: Active	WSSN: 4006	Source ID/Well No: MADISON TWP	
		Distance and Direction from Road Intersection: WSSN# 04006: SOUTH WELL					
		Well Owner: MADISON CHARTER TOWNSHIP					
		Well Address: MADISON TWP WELL #3 ADRIAN, MI			Owner Address: 4008 SOUTH ADRIAN HWY. ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 165.00 ft. Well Type: New Casing Type: Steel - black Casing Joint: Welded Casing Fitting: None Diameter: 10.00 in. to 135.00 ft. depth Borehole: 14.50 in. to 135.00 ft. depth	Well Use: Type I public Date Completed: 5/21/1992 Height: 0.00 ft. below grade	Pump Installed: No Pressure Tank Installed: No Pressure Relief Valve Installed: No																																													
Static Water Level: 0.40 ft. Above Grade (Flowing) Well Yield Test: Pumping level 9.00 ft. after 8.00 hrs. at 620 GPM Pumping level 14.00 ft. after 73.00 hrs. at 620 GPM Unrestricted Flow Rate:		<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Brown Sand</td><td>4.00</td><td>4.00</td></tr><tr><td>Brown Clay</td><td>4.00</td><td>8.00</td></tr><tr><td>Gray Clay</td><td>24.00</td><td>32.00</td></tr><tr><td>Gray Clay & Silt</td><td>43.00</td><td>75.00</td></tr><tr><td>Gray Sand</td><td>20.00</td><td>95.00</td></tr><tr><td>Gray Clay & Gravel</td><td>5.00</td><td>100.00</td></tr><tr><td>Sand & Gravel Fine</td><td>30.00</td><td>130.00</td></tr><tr><td>Sand & Gravel</td><td>35.00</td><td>165.00</td></tr><tr><td>Gravel W/Clay Gray</td><td>15.00</td><td>180.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Brown Sand	4.00	4.00	Brown Clay	4.00	8.00	Gray Clay	24.00	32.00	Gray Clay & Silt	43.00	75.00	Gray Sand	20.00	95.00	Gray Clay & Gravel	5.00	100.00	Sand & Gravel Fine	30.00	130.00	Sand & Gravel	35.00	165.00	Gravel W/Clay Gray	15.00	180.00															
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Sand & Gravel Fine	30.00	130.00																																													
Sand & Gravel	35.00	165.00																																													
Gravel W/Clay Gray	15.00	180.00																																													
Screen Installed: Yes Screen Diameter: 10.00 in. Screen Material Type: Unknown Screen Installation Type: Unknown Slot Length Set Between: 40.00 30.00 ft. 135.00 ft. and 165.00 ft. Fittings: Neoprene packer		Geology Remarks:																																													
<table border="1"><thead><tr><th>Grouting Material</th><th>Bags</th><th>Additives</th><th>Depth</th></tr></thead><tbody><tr><td>Neat cement</td><td>0.00</td><td>None</td><td>1.00 ft. to 135.00 ft.</td></tr></tbody></table>			Grouting Material	Bags	Additives	Depth	Neat cement	0.00	None	1.00 ft. to 135.00 ft.																																					
Grouting Material	Bags		Additives	Depth																																											
Neat cement	0.00	None	1.00 ft. to 135.00 ft.																																												
Wellhead Completion: Other, 12 inches above grade																																															
Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Unknown</td><td> </td><td> </td></tr></tbody></table>		Type	Distance	Direction	Unknown			Drilling Machine Operator Name: Employment: Unknown Contractor Type: Unknown Business Name: Business Address: 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. Signature of Registered Contractor Date																																							
Type	Distance	Direction																																													
Unknown																																															
General Remarks: SCREEN IS TELESOPING; 68 BAGS OF CEMENT USED IN GROUT; Other Remarks: Wellhead Completion:12 inch Above Grade																																															



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No:	Permit No:	County: Lenawee		Township: Madison	
Well ID: 46000000171 Elevation: 767 ft. Latitude: 41.8671814537 Longitude: -84.0534038759 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 15	Well Status: Active	WSSN: 4006
		Source ID/Well No: MADISON TWP			
		Distance and Direction from Road Intersection: WSSN# 04006; NORTH WELL #2			
		Well Owner: MADISON CHARTER TOWNSHIP			
		Well Address: MADISON TWP WELL #4 ADRIAN, MI		Owner Address: 4008 SOUTH ADRIAN HWY ADRIAN, MI 49221	

Drilling Method: Rotary Well Depth: 190.00 ft. Well Type: New Casing Type: Steel - black Casing Joint: Welded Casing Fitting: None Diameter: 10.00 in. to 160.00 ft. depth Borehole: 14.50 in. to 160.00 ft. depth		Pump Installed: No Pressure Tank Installed: No Pressure Relief Valve Installed: No																																														
Well Use: Type I public Date Completed: 8/17/1992 Height: 0.00 ft. below grade		<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Brown Sand</td><td>4.00</td><td>4.00</td></tr><tr><td>Brown Clay</td><td>4.00</td><td>8.00</td></tr><tr><td>Gray Clay</td><td>27.00</td><td>35.00</td></tr><tr><td>Gray Clay Sandy</td><td>45.00</td><td>80.00</td></tr><tr><td>Gray Clay</td><td>10.00</td><td>90.00</td></tr><tr><td>Gray Clay & Silt</td><td>17.00</td><td>107.00</td></tr><tr><td>Sand Fine</td><td>43.00</td><td>150.00</td></tr><tr><td>Sand</td><td>7.00</td><td>157.00</td></tr><tr><td>Sand & Gravel</td><td>33.00</td><td>190.00</td></tr><tr><td>Shale</td><td>2.00</td><td>192.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Formation Description	Thickness	Depth to Bottom	Brown Sand	4.00	4.00	Brown Clay	4.00	8.00	Gray Clay	27.00	35.00	Gray Clay Sandy	45.00	80.00	Gray Clay	10.00	90.00	Gray Clay & Silt	17.00	107.00	Sand Fine	43.00	150.00	Sand	7.00	157.00	Sand & Gravel	33.00	190.00	Shale	2.00	192.00												
Formation Description	Thickness			Depth to Bottom																																												
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Sand	7.00			157.00																																												
Sand & Gravel	33.00	190.00																																														
Shale	2.00	192.00																																														
Static Water Level: 2.43 ft. Above Grade (Flowing) Well Yield Test: Yield Test Method: Unknown Pumping level 26.00 ft. after 1.00 hrs. at 620 GPM Pumping level 29.00 ft. after 8.00 hrs. at 620 GPM																																																
Unrestricted Flow Rate:																																																
Screen Installed: Yes Filter Packed: No Screen Diameter: 10.00 in. Blank: 7.00 ft. Above Screen Material Type: Unknown Screen Installation Type: Unknown Slot Length Set Between 30.00 30.00 ft. 160.00 ft. and 190.00 ft.																																																
Fittings: Neoprene packer																																																
<table border="1"><thead><tr><th>Grouting Material</th><th>Bags</th><th>Additives</th><th>Depth</th></tr></thead><tbody><tr><td>Neat cement</td><td>0.00</td><td>None</td><td>0.00 ft. to 160.00 ft.</td></tr></tbody></table>		Grouting Material	Bags	Additives	Depth	Neat cement	0.00	None	0.00 ft. to 160.00 ft.																																							
Grouting Material	Bags	Additives	Depth																																													
Neat cement	0.00	None	0.00 ft. to 160.00 ft.																																													
Wellhead Completion: Other																																																
Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>None</td><td></td><td></td></tr></tbody></table>		Type	Distance	Direction	None																																											
Type	Distance	Direction																																														
None																																																
Drilling Machine Operator Name: Employment: Unknown Contractor Type: Unknown Reg No: 47-2072 Business Name: Business Address: 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. Signature of Registered Contractor Date																																																
General Remarks: SCREEN IS TELESOPING; TOP 15' SCREEN IS #30 SLOT AND BOTTOM 15' IS #20 SLOT; 85 BAGS OF CEMENT USED IN GROUT; WELL HEAD COMPLETION IS 42" ABOVE GRADE																																																
Other Remarks: Wellhead Completion:Completion Type Not Known																																																

Attachment II
Regional Water Well and Pump Records



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID: 46777305401

Tax No: MDO105496500	Permit No:	County: Lenawee	Township: Madison
Well ID: 46000000163 Elevation: 801 ft. Latitude: 41.88944 Longitude: -84.08366 Method of Collection: GPS Std Positioning Svc SA Off		Town/Range: 07S 03E	Section: 5
		Well Status: Active	WSSN: 2043346
		Source ID/Well No: 001	
		Distance and Direction from Road Intersection: 2043346; 1 1/8 MILE W OF SAND CREEK HWY ON N SIDE M-34	
		Well Owner: ANDERSON FUNERAL HOME	
		Well Address: 3050 W. BEECHER RD ADRIAN, MI 49221	Owner Address: 3050 W. BEECHER RD ADRIAN, MI 49221

Drilling Method: Rotary Well Depth: 191.00 ft. Well Type: New	Well Use: Type II public Date Completed: 5/26/1992	Pump Installed: Yes Pump Installation Date: Manufacturer: F.E. Myers Model Number: Drop Pipe Length: 60.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No	Pump Installation Only: No HP: Pump Type: Submersible Pump Capacity: 10 GPM Pump Voltage: Drilling Record ID:
Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: None	Height:	Pressure Tank Installed: No Pressure Relief Valve Installed: No	
Diameter: 5.00 in. to 183.00 ft. depth Borehole: 8.00 in. to 183.00 ft. depth			
Static Water Level: 999.99 ft. Below Grade Well Yield Test: Pumping level 100.00 ft. after 2.00 hrs. at 20 GPM		Formation Description	Thickness Depth to Bottom
		Clay	21.00 21.00
		Sand	10.00 31.00
		Clay	22.00 53.00
		Sand Fine	27.00 80.00
		Clay & Sand	40.00 120.00
		Clay	60.00 180.00
		Sand & Gravel	11.00 191.00
Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Screen Installation Type: Unknown Slot Length Set Between 20.00 8.00 ft. 183.00 ft. and 191.00 ft. Fittings: Other		Filter Packed: No Blank: 0.00 ft. Above	
Well Grouted: Yes Grouting Material: Bentonite slurry Bags: 0.00 Additives: None Depth: 0.00 ft. to 183.00 ft.		Geology Remarks:	
Grouting Method: Unknown			
Wellhead Completion: Pitless adapter, Other, 12 inches above grade		Drilling Machine Operator Name: PHILLIP GORDON Employment: Unknown	
Nearest Source of Possible Contamination: Type Distance Direction Sewer line 100 ft. South		Contractor Type: Unknown Business Name: Business Address: Reg No: 46-2039	
		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. Signature of Registered Contractor Date	
General Remarks: NONE			
Other Remarks: Pump Manufacturer:MYERS, Screen Fittings:Type Unknown			



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID: 46777309302

Tax No:	Permit No:	County: Lenawee	Township: Madison				
Well ID: 46000000165 Elevation: 805 ft. Latitude: 41.875340062 Longitude: -84.0695899939 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 9	Well Status:	WSSN: 4176	Source ID/Well No: MAURICE SPEAR	
		Distance and Direction from Road Intersection: WSSN# 04176					
		Well Owner: MAURICE SPEAR COMPUS					
		Well Address: MAURICE SPEAR WELL #2 ADRIAN, MI			Owner Address: ADRIAN, MI		

Drilling Method: Cable Tool Well Depth: 149.00 ft. Well Type: Replacement Casing Type: Unknown Casing Joint: Threaded & coupled Casing Fitting: Drive shoe Diameter: 6.00 in. to 149.00 ft. depth Borehole:	Well Use: Type I public Date Completed: 11/2/1967 Height: 0.00 ft. below grade Static Water Level: 25.00 ft. Below Grade Well Yield Test: Pumping level 60.00 ft. after 0.00 hrs. at 10 GPM Pumping level 70.00 ft. after 0.00 hrs. at 15 GPM Screen Installed: Yes Screen Diameter: 0.00 in. Screen Material Type: Screen Installation Type: Unknown Slot Length Set Between: 20.00 7.00 ft. 142.00 ft. and 149.00 ft. Fittings: Neoprene packer	Pump Installed: Yes Pump Installation Date: Manufacturer: Other Model Number: Drop Pipe Length: 126.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No Pressure Tank Installed: No Pressure Relief Valve Installed: No	Pump Installation Only: No HP: Pump Type: Submersible Pump Capacity: 0 GPM Pump Voltage: Drilling Record ID:																																										
		<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Yellow Sand</td><td>25.00</td><td>25.00</td></tr><tr><td>Gray Sand</td><td>20.00</td><td>45.00</td></tr><tr><td>Clay</td><td>45.00</td><td>90.00</td></tr><tr><td>Clay W/Stones</td><td>16.00</td><td>106.00</td></tr><tr><td>Gravel Wet/Moist</td><td>7.00</td><td>113.00</td></tr><tr><td>Clay W/Gravel</td><td>8.00</td><td>121.00</td></tr><tr><td>Gravel W/Clay</td><td>9.00</td><td>130.00</td></tr><tr><td>Clay</td><td>6.00</td><td>136.00</td></tr><tr><td>Gravel Water Bearing</td><td>13.00</td><td>149.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Yellow Sand	25.00	25.00	Gray Sand	20.00	45.00	Clay	45.00	90.00	Clay W/Stones	16.00	106.00	Gravel Wet/Moist	7.00	113.00	Clay W/Gravel	8.00	121.00	Gravel W/Clay	9.00	130.00	Clay	6.00	136.00	Gravel Water Bearing	13.00	149.00													
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Well Grouted: Yes Grouting Material: Other Grouting Method: Unknown Bags Additives Depth: 0.00 None 0.00 ft. to 0.00 ft.		Geology Remarks:																																											
Wellhead Completion: Pitless adapter		Drilling Machine Operator Name:																																											
Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Septic tank</td><td>100 ft.</td><td>Northeast</td></tr></tbody></table>		Type	Distance	Direction	Septic tank	100 ft.	Northeast	Employment: Unknown																																					
Type	Distance	Direction																																											
Septic tank	100 ft.	Northeast																																											
Abandoned Well Plugged: No Reason Not Plugged:		Contractor Type: Unknown Business Name: Business Address:																																											
		Reg No: 46-0021																																											
		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. Signature of Registered Contractor Date																																											
General Remarks: ORIGINAL WELLID# WAS 09002; GROUTED WITH TOP SOIL																																													
Other Remarks: Grouting Material 1: Listed as other in Wellkey, Pump Manufacturer: REDA																																													



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No:	Permit No: 22941	County: Lenawee	Township: Madison				
Well ID: 46000000615 Elevation: Latitude: 41.8645646 Longitude: -84.084217 Method of Collection: Address Matching-Street Centerline		Town/Range: 07S 03E	Section: 17	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection: 1/4 mile south of West Cadmus Road; west side of Sand Creek Highway					
		Well Owner: T & B Well Drilling					
		Well Address: Sand Creek Hwy Lot 3 Adrian, MI 49221			Owner Address: PO Box 69 Tecumseh, MI 49286		

Drilling Method: Rotary Well Depth: 149.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Welded Casing Fitting: None Diameter: 5.00 in. to 132.00 ft. depth Borehole: 8.75 in. to 149.00 ft. depth	Well Use: Household Date Completed: 6/21/2001 Height: 1.00 ft. above grade	Pump Installed: No Pressure Tank Installed: No Pressure Relief Valve Installed: No
---	---	---

Static Water Level: 40.00 ft. Below Grade Well Yield Test: Pumping level 149.00 ft. after 1.00 hrs. at 40 GPM Yield Test Method: Air	Formation Description	Thickness	Depth to Bottom
	Brown Sand	28.00	28.00
Screen Installed: Yes Screen Diameter: 5.00 in. Screen Material Type: PVC-slotted Screen Installation Type: Attached Slot Length Set Between: 12.00 10.00 ft. 132.00 ft. and 142.00 ft. Fittings: None	Gray Clay	12.00	40.00
	Sand	12.00	52.00
	Clay	8.00	60.00
	Sand Silty	8.00	68.00
	Clay	52.00	120.00
	Sand	2.00	122.00
	Clay	6.00	128.00
	Sand	21.00	149.00

Well Grouted: Yes Grouting Material: Bentonite dry granular Grouting Method: Grout pipe outside casing Bags: 12.00 Additives: Other Depth: 0.00 ft. to 130.00 ft.	Geology Remarks:
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Wellhead Completion: 12 inches above grade

Nearest Source of Possible Contamination: Type: Septic tank Distance: 75 ft. Direction: West	Drilling Machine Operator Name: Paul Wendling Employment: Employee
---	---

	Contractor Type: Water Well Drilling Contractor Business Name: Ed Birkmeier Well Drilling Ltd Business Address: 10655 Easton Road, New Lothrop, MI, 48460	Reg No: 78-1607
	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.	
	Signature of Registered Contractor	Date

General Remarks: Pump Installed by Terry Clymer (T & B)
--

Other Remarks: Grouting Additive 1:Ez mud, Coordinate Source:Google well address geocoding



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No:	Permit No: 23397	County: Lenawee	Township: Madison			
Well ID: 46000001920 Elevation: Latitude: 41.86751715 Longitude: -84.08879371 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 17	Well Status: Active	WSSN:	Source ID/Well No:
		Distance and Direction from Road Intersection: .2 MILE WEST OF SAND CREEK ON SOUTH SIDE OF PLANEVIEW DR.				
		Well Owner: Earls Construction				
		Well Address: 3125 Laneview Rd. Adrian, MI		Owner Address: 3125 Laneview Rd. Adrian, MI		

Drilling Method: Rotary Well Depth: 152.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: Unknown Diameter: 5.00 in. to 147.00 ft. depth Borehole: 8.50 in. to 152.00 ft. depth	Well Use: Household Date Completed: 4/25/2002 Height: Static Water Level: 29.00 ft. Below Grade Well Yield Test: Pumping level 33.00 ft. after 2.00 hrs. at 12 GPM Yield Test Method: Air Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Telescoped Slot Length Set Between: 12.00 4.00 ft. 147.00 ft. and 152.00 ft. Fittings: None	Pump Installed: Yes Pump Installation Date: Manufacturer: F.E. Myers Model Number: 2NFL5212 Drop Pipe Length: 60.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 12 GPM Pump Voltage: Drilling Record ID: Pressure Tank Installed: Yes Pressure Tank Type: Unknown Manufacturer: Elbi Model Number: DV80 Pressure Relief Valve Installed: No Tank Capacity: 20.0 Gallons	<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Sand</td><td>19.00</td><td>19.00</td></tr><tr><td>Clay</td><td>53.00</td><td>72.00</td></tr><tr><td>Sand & Gravel</td><td>6.00</td><td>78.00</td></tr><tr><td>Sand & Clay</td><td>37.00</td><td>115.00</td></tr><tr><td>Clay</td><td>23.00</td><td>138.00</td></tr><tr><td>Sand & Gravel</td><td>14.00</td><td>152.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Sand	19.00	19.00	Clay	53.00	72.00	Sand & Gravel	6.00	78.00	Sand & Clay	37.00	115.00	Clay	23.00	138.00	Sand & Gravel	14.00	152.00																								
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Well Grouted: Yes Grouting Material: Bentonite slurry Grouting Method: Unknown Bags: 7.00 Additives: None Depth: 0.00 ft. to 140.00 ft.	Geology Remarks:																																															
Wellhead Completion: Pitless adapter	Drilling Machine Operator Name: Terry Alcock Employment: Employee																																															
Nearest Source of Possible Contamination: Type: Septic tank Distance: 50 ft. Direction: Southeast	Contractor Type: Water Well Drilling Contractor Business Name: Alcock Drilling Inc. Business Address: Reg No: 46-1272 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. Signature of Registered Contractor Date																																															
General Remarks:																																																
Other Remarks:																																																



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No:	Permit No: TW202	County: Lenawee	Township: Madison				
Well ID: 46000001930 Elevation: Latitude: 41.87241972 Longitude: -84.0832314 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 17	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection: 3/8 MILE S OF CADMUS RD ON W SIDE OF SANDCREEK HWY					
		Well Owner: AL HOAG					
		Well Address: LOT 3 PLANEVIEW DR N ADRIAN, MI 49221			Owner Address: LOT 3 PLANEVIEW DR N ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 136.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: None Diameter: 5.00 in. to 128.00 ft. depth Borehole: 8.00 in. to 136.00 ft. depth	Well Use: Household Date Completed: 9/23/2002 Height:	Pump Installed: No Pressure Tank Installed: No Pressure Relief Valve Installed: No																																													
Static Water Level: 34.00 ft. Below Grade Well Yield Test: Pumping level 42.00 ft. after 4.00 hrs. at 15 GPM Yield Test Method: Test pump		<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Sand</td><td>18.00</td><td>18.00</td></tr><tr><td>Clay</td><td>34.00</td><td>52.00</td></tr><tr><td>Sand</td><td>13.00</td><td>65.00</td></tr><tr><td>Clay</td><td>62.00</td><td>127.00</td></tr><tr><td>Sand</td><td>9.00</td><td>136.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Sand	18.00	18.00	Clay	34.00	52.00	Sand	13.00	65.00	Clay	62.00	127.00	Sand	9.00	136.00																											
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Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Telescoped Slot Length Set Between: 0.02 8.00 ft. 128.00 ft. and 136.00 ft. Fittings: None		Filter Packed: Yes Blank: *u																																													
Well Grouted: Yes Grouting Material: Bentonite slurry Bags: 6.00 Additives: None Depth: 0.00 ft. to 128.00 ft.		Geology Remarks:																																													
Wellhead Completion: Pitless adapter		Drilling Machine Operator Name: CHARLES F TORNOW Employment: Employee																																													
Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Septic tank</td><td>50 ft.</td><td>East</td></tr></tbody></table>		Type	Distance	Direction	Septic tank	50 ft.	East	Contractor Type: Water Well Drilling Contractor Business Name: GORDON AND SONS Business Address:																																							
Type	Distance	Direction																																													
Septic tank	50 ft.	East																																													
		Reg No: 46-2039																																													
		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. Signature of Registered Contractor Date																																													
General Remarks:																																															
Other Remarks:																																															



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MD0-110-3710-00	Permit No: 24070	County: Lenawee	Township: Madison
Well ID: 46000002084 Elevation: Latitude: 41.87537276 Longitude: -84.05773869 Method of Collection: Address Matching-House Number		Town/Range: 07S 03E	Section: 10
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 100 FEET NORTH OF CADNUS RD; 50 FEET WEST FO BALDWIN HWY	
		Well Owner: JAMES COUSINO	
		Well Address: 2958 BALDWIN HWY ADRIAN, MI	Owner Address: 2958 BALDWIN HWY ADRIAN, MI

Drilling Method: Cable Tool		Pump Installed: No	
Well Depth: 118.00 ft.		Pressure Tank Installed: No	
Well Type: Replacement		Pressure Relief Valve Installed: No	
Well Use: Household			
Date Completed: 11/18/2002			
Casing Type: Steel - black			
Height:			
Casing Joint: Threaded & coupled			
Casing Fitting: Drive shoe			
Diameter: 4.00 in. to 106.00 ft. depth			
Borehole:			
Static Water Level: 14.00 ft. Below Grade			
Well Yield Test:			
Yield Test Method: Test pump			
Pumping level 40.00 ft. after 1.00 hrs. at 18 GPM			
Screen Installed: Yes			
Filter Packed: No			
Screen Diameter: 4.00 in.			
Blank: 1.50 ft. Above			
Screen Material Type: Stainless steel-wire wrapped			
Screen Installation Type: Attached			
Slot	Length	Set Between	
8.00	12.00 ft.	106.00 ft. and 118.00 ft.	
Fittings: Neoprene packer			
Well Grouted: Yes			
Grouting Method: Unknown			
Grouting Material	Bags	Additives	Depth
Bentonite dry granular	0.00	None	1.00 ft. to 106.00 ft.
Wellhead Completion: Pitless adapter, 12 inches above grade			
Nearest Source of Possible Contamination:			
Type	Distance	Direction	
Sewer line	50 ft.	East	
Abandoned Well Plugged: Yes			
Casing Removed:			
General Remarks: SLOT: 8#10 & 4#7			
Other Remarks:			
		Drilling Machine Operator Name: RICHARD L MAPES	
		Employment: Employee	
		Contractor Type: Water Well Drilling Contractor	
		Reg No: 46-2155	
		Business Name: MAPES WELL DRLG	
		Business Address:	
		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.	
		Signature of Registered Contractor	Date



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MD0500003000	Permit No: 24228	County: Lenawee	Township: Madison				
Well ID: 46000002255 Elevation: Latitude: 41.8747292 Longitude: -84.03837341 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 14	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection: 150 FEET WEST OF WINTER ST; ON SOUTH SIDE OF US 223					
		Well Owner: MAGIC FOUNTAIN AUTO WASH					
		Well Address: 1255 EAST US 223 ADRIAN, MI 49221			Owner Address: 1255 EAST US 223 ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 158.00 ft. Well Type: Replacement Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: None Diameter: 5.00 in. to 146.00 ft. depth Borehole: 8.00 in. to 158.00 ft. depth	Well Use: Other Date Completed: 3/31/2003 Height: Pump Installed: Yes Pump Installation Date: Manufacturer: F.E. Myers Model Number: J50P Drop Pipe Length: 120.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No Pressure Tank Installed: Yes Pressure Tank Type: Unknown Manufacturer: Well-Mate Model Number: WM35 Pressure Relief Valve Installed: No	Pump Installation Only: No HP: 5.00 Pump Type: Submersible Pump Capacity: 80 GPM Pump Voltage: Drilling Record ID: Tank Capacity: 120.0 Gallons
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Static Water Level: 45.00 ft. Below Grade Well Yield Test: Pumping level 70.00 ft. after 2.00 hrs. at 100 GPM Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Telescoped Slot Length Set Between: 18.00 12.00 ft. 146.00 ft. and 158.00 ft. Fittings: None	Yield Test Method: Test pump <table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Clay</td><td>44.00</td><td>44.00</td></tr><tr><td>Sand</td><td>14.00</td><td>58.00</td></tr><tr><td>Clay</td><td>85.00</td><td>143.00</td></tr><tr><td>Sand</td><td>15.00</td><td>158.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Clay	44.00	44.00	Sand	14.00	58.00	Clay	85.00	143.00	Sand	15.00	158.00																																				
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Well Grouted: Yes Grouting Material: Bentonite slurry Grouting Method: Unknown Bags: 7.00 Additives: None Depth: 0.00 ft. to 146.00 ft.	Geology Remarks:
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Wellhead Completion: 12 inches above grade

Nearest Source of Possible Contamination: Type: Drainfield/Dry well Distance: 20 ft. Direction: North	Drilling Machine Operator Name: CHARLES F TORNOW Employment: Employee
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Abandoned Well Plugged: No Reason Not Plugged: Unknown	Contractor Type: Water Well Drilling Contractor Business Name: GORDON & SONS INC Business Address:
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	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.
	Signature of Registered Contractor _____ Date _____

General Remarks:

Other Remarks: Well Use:INDUSTRIAL



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: M00-121-2060-00	Permit No: 24429+	County: Lenawee	Township: Madison				
Well ID: 46000002545 Elevation: Latitude: 41.85964356 Longitude: -84.0726637 Method of Collection: Address Matching-House Number		Town/Range: 07S 03E	Section: 21	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection:					
		Well Owner: PEGGY SAGER					
		Well Address: 2375 W. CARLETON ADRIAN, MI 49221			Owner Address: 2375 W. CARLETON ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 132.00 ft. Well Type: Replacement Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: None Diameter: 5.00 in. to 122.00 ft. depth Borehole: 8.00 in. to 132.00 ft. depth	Well Use: Household Date Completed: 7/12/2003 Height: Static Water Level: 26.00 ft. Below Grade Well Yield Test: Pumping level 35.00 ft. after 2.00 hrs. at 30 GPM Yield Test Method: Unknown	Pump Installed: Yes Pump Installation Date: Manufacturer: F.E. Myers Model Number: 2NFL-12 Drop Pipe Length: 60.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 12 GPM Pump Voltage: Drilling Record ID: Pressure Tank Installed: Yes Pressure Tank Type: Unknown Manufacturer: Champion Model Number: 202 Pressure Relief Valve Installed: No Tank Capacity: 20.0 Gallons	<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Clay</td><td>78.00</td><td>78.00</td></tr><tr><td>Sand & Gravel</td><td>2.00</td><td>80.00</td></tr><tr><td>Clay & Gravel</td><td>35.00</td><td>115.00</td></tr><tr><td>Sand & Gravel</td><td>17.00</td><td>132.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Clay	78.00	78.00	Sand & Gravel	2.00	80.00	Clay & Gravel	35.00	115.00	Sand & Gravel	17.00	132.00																																	
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Screen Installed: Yes Screen Diameter: 5.00 in. Screen Material Type: PVC-saw cut Screen Installation Type: Attached Slot Length Set Between: 15.00 10.00 ft. 122.00 ft. and 132.00 ft. Fittings: Unknown	Filter Packed: Yes Blank: Well Grouted: Yes Grouting Method: Unknown Grouting Material: Bentonite slurry Bags: 0.00 Additives: None Depth: 0.00 ft. to 112.00 ft.	Geology Remarks:																																																	
Wellhead Completion: Pitless adapter, 12 inches above grade		Drilling Machine Operator Name: E CLYMER Employment: Unknown																																																	
Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Septic tank</td><td>50 ft.</td><td>North</td></tr></tbody></table>		Type	Distance	Direction	Septic tank	50 ft.	North	Contractor Type: Water Well Drilling Contractor Business Name: T & B WELL DRILLING Business Address:																																											
Type	Distance	Direction																																																	
Septic tank	50 ft.	North																																																	
Abandoned Well Plugged: Yes		Reg No: 46-1940																																																	
Casing Diameter: 2 in. Plugging Material: Bentonite chips/pellets No. of Bags: 1.50		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. Signature of Registered Contractor Date																																																	
General Remarks:																																																			
Other Remarks:																																																			



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MD0108443000	Permit No: TW267	County: Lenawee	Township: Madison
Well ID: 46000002865 Elevation: Latitude: 41.88408011 Longitude: -84.08289851 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 8
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 1 MILE SOUTH OF M-34 ON WEST SIDE OF SANDCREEK HWY; LOT H	
		Well Owner: JOE WELLS	
		Well Address: HILLVIEW DRIVE MI	Owner Address: 4777 DELEON DRIVE MI

Drilling Method: Rotary Well Depth: 135.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: None Diameter: 5.00 in. to 129.00 ft. depth Borehole: 8.75 in. to 135.00 ft. depth		Pump Installed: No Pressure Tank Installed: No Pressure Relief Valve Installed: No																																														
Well Use: Test well Date Completed: 12/24/2003 Height: 2.00 ft. above grade																																																
Static Water Level: 9.20 ft. Below Grade Well Yield Test: Pumping level 11.40 ft. after 4.00 hrs. at 15 GPM		<table border="1"> <thead> <tr> <th>Formation Description</th> <th>Thickness</th> <th>Depth to Bottom</th> </tr> </thead> <tbody> <tr><td>Clay</td><td>10.00</td><td>10.00</td></tr> <tr><td>Sand Water Bearing</td><td>45.00</td><td>55.00</td></tr> <tr><td>Clay & Gravel</td><td>65.00</td><td>120.00</td></tr> <tr><td>Gravel & Sand</td><td>15.00</td><td>135.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Formation Description	Thickness	Depth to Bottom	Clay	10.00	10.00	Sand Water Bearing	45.00	55.00	Clay & Gravel	65.00	120.00	Gravel & Sand	15.00	135.00																														
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Clay & Gravel	65.00	120.00																																														
Gravel & Sand	15.00	135.00																																														
Screen Installed: Yes Screen Diameter: 3.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Telescoped Slot Length Set Between: 12.00 6.00 ft. 129.00 ft. and 135.00 ft. Fittings: Neoprene packer		Filter Packed: Yes Blank: 1.00 ft. Above Geology Remarks:																																														
Well Grouted: Yes Grouting Material: Bentonite slurry Bags: 9.00 Additives: None Depth: 0.00 ft. to 119.00 ft.		Wellhead Completion: Unknown																																														
Nearest Source of Possible Contamination: Type: Unknown Distance: Direction:		Drilling Machine Operator Name: Employment: Unknown																																														
		Contractor Type: Water Well Drilling Contractor Business Name: CLYMER BOYS PUMP & WELL SER IN Business Address:																																														
		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.																																														
		Signature of Registered Contractor																																														
		Date																																														
General Remarks: REQUIRED TEST TAKEN																																																
Other Remarks:																																																



Water Well And Pump Record

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Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No:	Permit No: 10833	County: Lenawee		Township: Madison	
Well ID: 46000003922 Elevation: Latitude: 41.875566 Longitude: -84.065349 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 9	Well Status: Active	WSSN:
		Source ID/Well No:			
		Distance and Direction from Road Intersection: SOUTH EAST CORNERS OF PARK DRIVE & BIRCHWOOD DRIVE; AIRPORT S.C.H ON SIDE OF PARK			
		Well Owner: JENN F. CUNNINGHAM			
		Well Address: 2831 PARK DRIVE ADRIAN, MI 49221		Owner Address: 2831 PARK DRIVE ADRIAN, MI 49221	

Drilling Method: Rotary Well Depth: 140.00 ft. Well Type: Unknown Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: Drive shoe Diameter: 5.00 in. to 135.00 ft. depth Borehole:		Well Use: Household Date Completed: 7/30/1980 Height:		Pump Installed: Yes Pump Installation Date: Manufacturer: Aermotor Model Number: Drop Pipe Length: 60.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No Pressure Tank Installed: No Pressure Relief Valve Installed: No		Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 10 GPM Pump Voltage: Drilling Record ID:																																														
Static Water Level: 30.00 ft. Below Grade Well Yield Test: Pumping level 35.00 ft. after 2.00 hrs. at 40 GPM		Yield Test Method: Unknown		<table border="1"> <thead> <tr> <th>Formation Description</th> <th>Thickness</th> <th>Depth to Bottom</th> </tr> </thead> <tbody> <tr><td>Gravel</td><td>33.00</td><td>33.00</td></tr> <tr><td>Clay</td><td>37.00</td><td>70.00</td></tr> <tr><td>Clay & Sand</td><td>20.00</td><td>90.00</td></tr> <tr><td>Clay</td><td>30.00</td><td>120.00</td></tr> <tr><td>Gravel</td><td>20.00</td><td>140.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Formation Description	Thickness	Depth to Bottom	Gravel	33.00	33.00	Clay	37.00	70.00	Clay & Sand	20.00	90.00	Clay	30.00	120.00	Gravel	20.00	140.00																													
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Gravel	20.00	140.00																																																		
Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Unknown Screen Installation Type: Telescoped Slot Length Set Between: 10.00 4.00 ft. 136.00 ft. and 140.00 ft. Fittings: Threaded point		Filter Packed: No Blank: *u		Geology Remarks:																																																
Well Grouted: Yes Grouting Material: Bentonite slurry Bags: 0.00 Additives: None Depth: 0.00 ft. to 135.00 ft.		Grouting Method: Unknown																																																		
Wellhead Completion: Pitless adapter				Drilling Machine Operator Name:																																																
Nearest Source of Possible Contamination: Type: Sewer line Distance: 50 ft. Direction: West				Employment: Unknown																																																
Abandoned Well Plugged:				Contractor Type: Water Well Drilling Contractor Business Name: GORDON & SONS Business Address:																																																
				Reg No:																																																
				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.																																																
		Casing Removed:		Signature of Registered Contractor																																																
				Date																																																
General Remarks:																																																				
Other Remarks:																																																				



Water Well And Pump Record

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Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: 1000108444000	Permit No: 24615	County: Lenawee	Township: Madison			
Well ID: 46000004137 Elevation: Latitude: 41.88149654 Longitude: -84.08682225 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 8	Well Status: Active	WSSN:	Source ID/Well No:
		Distance and Direction from Road Intersection: HILLVIEW SUBDIVISION, LOT F				
		Well Owner: LOUIS SCHAAP				
		Well Address: 3064 HILLVIEW DR. ADRIAN, MI 49221		Owner Address: 1100 SUTTON RD. ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 136.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Unknown Casing Fitting: Unknown Diameter: 5.00 in. to 130.00 ft. depth Borehole: 8.75 in. to 136.00 ft. depth	Well Use: Household Date Completed: 9/11/2004 Height: Static Water Level: 10.00 ft. Below Grade Well Yield Test: Pumping level 45.00 ft. after 2.00 hrs. at 20 GPM Yield Test Method: Test pump	Pump Installed: Yes Pump Installation Date: Manufacturer: F.E. Myers Model Number: Drop Pipe Length: 100.00 ft. Drop Pipe Diameter: Draw Down Seal Used: No Pressure Tank Installed: No Pressure Relief Valve Installed: No	Pump Installation Only: No HP: 1.00 Pump Type: Submersible Pump Capacity: 20 GPM Pump Voltage: Drilling Record ID:																																													
Screen Installed: Yes Screen Diameter: 5.00 in. Screen Material Type: PVC-saw cut Screen Installation Type: Attached Slot Length Set Between: 12.00 6.00 ft. 130.00 ft. and 136.00 ft. Fittings: Unknown		<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Clay</td><td>10.00</td><td>10.00</td></tr><tr><td>Sand Fine</td><td>80.00</td><td>90.00</td></tr><tr><td>Clay</td><td>28.00</td><td>118.00</td></tr><tr><td>Sand & Gravel</td><td>18.00</td><td>136.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Formation Description	Thickness	Depth to Bottom	Clay	10.00	10.00	Sand Fine	80.00	90.00	Clay	28.00	118.00	Sand & Gravel	18.00	136.00																														
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Well Grouted: Yes Grouting Material: Bentonite slurry Bags: 8.00 Additives: None Depth: 0.00 ft. to 120.00 ft. Grouting Method: Unknown		Geology Remarks:																																														
Wellhead Completion: Pitless adapter, 12 inches above grade		Drilling Machine Operator Name: ERIK CLYMER Employment: Unknown																																														
Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Septic tank</td><td>50 ft.</td><td>Southeast</td></tr></tbody></table>		Type	Distance	Direction	Septic tank	50 ft.	Southeast	Contractor Type: Water Well Drilling Contractor Business Name: CLYMER BOYS PUMP AND WELL Business Address:																																								
Type	Distance	Direction																																														
Septic tank	50 ft.	Southeast																																														
		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.																																														
		Signature of Registered Contractor Date																																														
General Remarks:																																																
Other Remarks:																																																



Water Well And Pump Record

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Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: XAO 850022800	Permit No: 26791	County: Lenawee	Township: Madison				
Well ID: 46000005751 Elevation: Latitude: 41.88974 Longitude: -84.05251 Method of Collection: GPS Std Positioning Svc SA Off		Town/Range: 07S 03E	Section: 3	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection: 200 FEET EAST OF SCOTT ST ON NORTH SIDE OF BURR					
		Well Owner: CITY OF ADRIAN					
		Well Address: BURR PONDS PARK ADRIAN, MI 49221			Owner Address: 100 E. CHURCH ST ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 114.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 5.00 in. to 104.00 ft. depth SDR: 21.00 Borehole: 8.50 in. to 114.00 ft. depth	Well Use: Irrigation Date Completed: 9/4/2008 Height: 1.00 ft. above grade Pump Installed: Yes Pump Installation Date: 9/4/2008 Manufacturer: AquaDuty Model Number: 45AA2S4PE Drop Pipe Length: 80.00 ft. Drop Pipe Diameter: 2.00 in. Draw Down Seal Used: No Pressure Tank Installed: No Pressure Relief Valve Installed: No	Pump Installation Only: No HP: 2.00 Pump Type: Submersible Pump Capacity: 50 GPM Pump Voltage: Drilling Record ID:
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Static Water Level: 17.00 ft. Below Grade Well Yield Test: Pumping level 75.00 ft. after 1.00 hrs. at 50 GPM Yield Test Method: Test pump	<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Brown Clay</td><td>12.00</td><td>12.00</td></tr><tr><td>Gray Clay & Gravel</td><td>14.00</td><td>26.00</td></tr><tr><td>Gray Clay</td><td>66.00</td><td>92.00</td></tr><tr><td>Sand & Gravel</td><td>22.00</td><td>114.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Brown Clay	12.00	12.00	Gray Clay & Gravel	14.00	26.00	Gray Clay	66.00	92.00	Sand & Gravel	22.00	114.00																														
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Screen Installed: Yes Screen Diameter: 5.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Telescoped Slot Length Set Between: 12.00 10.00 ft. 104.00 ft. and 114.00 ft. Fittings: None	Filter Packed: Yes Blank: 1.00 ft. Above Well Grouted: Yes Grouting Method: Grout pipe outside casing Grouting Material: Bentonite slurry Bags: 6.00 Additives: None Depth: 0.00 ft. to 100.00 ft.	Geology Remarks:
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Wellhead Completion: Pitless adapter	Drilling Machine Operator Name: TERRY ALCOCK
---	---

Nearest Source of Possible Contamination: <table border="1"><thead><tr><th>Type</th><th>Distance</th><th>Direction</th></tr></thead><tbody><tr><td>Sewage pump chamber</td><td>50 ft.</td><td>South</td></tr></tbody></table>	Type	Distance	Direction	Sewage pump chamber	50 ft.	South	Employment: Employee
Type	Distance	Direction					
Sewage pump chamber	50 ft.	South					

	Contractor Type: Water Well Drilling Contractor Business Name: Alcock Drilling, Inc. Business Address: 6375 Sutton Road, Britton, MI, 49229	Reg No: 46-1272
	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.	
	Signature of Registered Contractor	Date

General Remarks:

Other Remarks:



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MDO115465500	Permit No: 27665	County: Lenawee	Township: Madison
Well ID: 46000006742 Elevation: Latitude: 41.86066 Longitude: -84.05049 Method of Collection: GPS Std Positioning Svc SA On		Town/Range: 07S 03E	Section: 15
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 2/5 OF AMILE WEST OF M-52 ON THE NORTH SIDE OF W. CARLETON RD	
		Well Owner: GRUDGER BAILEY	
		Well Address: 1418 W. CARLETON RD ADRIAN, MI 49221	Owner Address: 1418 W. CARLETON RD ADRIAN, MI 49221

Drilling Method: Rotary Well Depth: 141.00 ft. Well Type: Replacement Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 5.00 in. to 133.00 ft. depth Borehole: 8.00 in. to 141.00 ft. depth	Well Use: Household Date Completed: 8/4/2012 Height: 1.00 ft. above grade Static Water Level: 35.00 ft. Below Grade Well Yield Test: Pumping level 45.00 ft. after 2.00 hrs. at 15 GPM Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Stainless steel-slotted Screen Installation Type: Attached Slot Length Set Between: 0.18 8.00 ft. 133.00 ft. and 141.00 ft. Fittings: None	Pump Installed: Yes Pump Installation Date: 8/4/2012 Manufacturer: F.E. Myers Model Number: J512P Drop Pipe Length: 67.00 ft. Drop Pipe Diameter: 1.00 in. Draw Down Seal Used: No Pressure Tank Installed: Yes Pressure Tank Type: Diaphragm/bladder Manufacturer: Other Model Number: PF-20 Pressure Relief Valve Installed: Yes	Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 10 GPM Pump Voltage: 230 Drilling Record ID: Tank Capacity: 20.0 Gallons																																													
		<table border="1"> <thead> <tr> <th>Formation Description</th> <th>Thickness</th> <th>Depth to Bottom</th> </tr> </thead> <tbody> <tr><td>Clay</td><td>45.00</td><td>45.00</td></tr> <tr><td>Sand</td><td>8.00</td><td>53.00</td></tr> <tr><td>Clay</td><td>64.00</td><td>117.00</td></tr> <tr><td>Sand</td><td>7.00</td><td>124.00</td></tr> <tr><td>Clay</td><td>8.00</td><td>132.00</td></tr> <tr><td>Sand & Gravel</td><td>9.00</td><td>141.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Formation Description	Thickness	Depth to Bottom	Clay	45.00	45.00	Sand	8.00	53.00	Clay	64.00	117.00	Sand	7.00	124.00	Clay	8.00	132.00	Sand & Gravel	9.00	141.00																									
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Well Grouted: Yes Grouting Method: Grout pipe outside casing Grouting Material: Bentonite slurry Bags: 6.00 Additives: None Depth: 0.00 ft. to 133.00 ft.		Geology Remarks:																																														
Wellhead Completion: Pitless adapter, 12 inches above grade		Drilling Machine Operator Name: JASON RICHARDS Employment: Employee																																														
Nearest Source of Possible Contamination: <table border="1"> <thead> <tr> <th>Type</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Septic tank</td> <td>50 ft.</td> <td>West</td> </tr> </tbody> </table>		Type	Distance	Direction	Septic tank	50 ft.	West	Contractor Type: Water Well Drilling Contractor Business Name: Gordon & Sons Water Well Drlg Business Address: 3768 W Monroe Rd, Tipton, MI, 49287 Reg No: 46-0551																																								
Type	Distance	Direction																																														
Septic tank	50 ft.	West																																														
Abandoned Well Plugged: Yes Latitude: 41.86049 Casing Diameter: 3 in. Plugging Material: Bentonite chips/pellets No. of Bags: 9.00 Longitude: -84.05052 Casing Removed: No Well Depth: 120 ft.		Water Well Contractor's Certification This well/pump was constructed under my supervision and I hereby certify that the work complies with Part 127 Act 368 PA 1978 and the well code. Signature of Registered Contractor _____ Date _____																																														
General Remarks:																																																
Other Remarks: Tank Manufacturer:PRO-FLOW																																																



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MDO-115-4310-00	Permit No: 27783	County: Lenawee	Township: Madison				
Well ID: 46000006878 Elevation: Latitude: 41.86621 Longitude: -84.04363 Method of Collection: GPS Std Positioning Svc SA On		Town/Range: 07S 03E	Section: 15	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection: 1/2 MILE NORTH OF CARLTON RD ON THE WEST SIDE OF S ADRIAN HWY					
		Well Owner: TERRY WARNER					
		Well Address: 3580 S. ADRIAN HWY ADRIAN, MI 49221			Owner Address: 3580 S. ADRIAN HWY ADRIAN, MI 49221		

Drilling Method: Rotary Well Depth: 185.00 ft. Well Type: Replacement Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 5.00 in. to 177.00 ft. depth Borehole: 8.00 in. to 185.00 ft. depth	Well Use: Household Date Completed: 3/5/2013 Height: 1.00 ft. above grade Pump Installed: Yes Pump Installation Date: 3/5/2013 Manufacturer: F.E. Myers Model Number: J512P Drop Pipe Length: 107.00 ft. Drop Pipe Diameter: 1.00 in. Draw Down Seal Used: No Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 10 GPM Pump Voltage: 230 Drilling Record ID: Pressure Tank Installed: Yes Pressure Tank Type: Diaphragm/bladder Manufacturer: Other Model Number: LPT20 Pressure Relief Valve Installed: Yes Tank Capacity: 20.0 Gallons
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Static Water Level: 50.00 ft. Below Grade Well Yield Test: Pumping level 75.00 ft. after 2.00 hrs. at 15 GPM Yield Test Method: Air	<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Clay</td><td>40.00</td><td>40.00</td></tr><tr><td>Sand</td><td>22.00</td><td>62.00</td></tr><tr><td>Clay</td><td>97.00</td><td>159.00</td></tr><tr><td>Sand</td><td>26.00</td><td>185.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Clay	40.00	40.00	Sand	22.00	62.00	Clay	97.00	159.00	Sand	26.00	185.00																																	
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Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Stainless steel-slotted Screen Installation Type: Attached Slot Length Set Between: 0.18 8.00 ft. 177.00 ft. and 185.00 ft. Fittings: None	Filter Packed: Yes Blank: Well Grouted: Yes Grouting Method: Grout pipe outside casing Grouting Material: Bentonite slurry Bags: 7.50 Additives: None Depth: 0.00 ft. to 177.00 ft.
--	--

Wellhead Completion: Pitless adapter, 12 inches above grade
--

Nearest Source of Possible Contamination: Type: Septic tank Distance: 50 ft. Direction: West	Drilling Machine Operator Name: JASON RICHARDS Employment: Employee
---	--

Abandoned Well Plugged: Yes	Contractor Type: Water Well Drilling Contractor Business Name: Gordon & Sons Water Well Drlg Business Address: 3768 W Monroe Rd, Tipton, MI, 49287
------------------------------------	---

Latitude: 41.86662 Casing Diameter: 4 in. Plugging Material: Bentonite chips/pellets No. of Bags: 8.00 Longitude: -84.04366 Casing Removed: No Well Depth: 61 ft.	Reg No: 46-0551 Water Well Contractor's Certification This well/pump was constructed under my supervision and I hereby certify that the work complies with Part 127 Act 368 PA 1978 and the well code. Signature of Registered Contractor Date
--	---

General Remarks:

Other Remarks: Tank Manufacturer:WELLSAVER



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MDO-115-4740-00	Permit No: TW402	County: Lenawee	Township: Madison
Well ID: 46000007696 Elevation: Latitude: 41.86222 Longitude: -84.04436 Method of Collection: GPS Std Positioning Svc SA On		Town/Range: 07S 03E	Section: 15
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 1/8 OF A MILE WEST OF M-52 ON THE NORTH SIDE OF CARLETON RD.	
		Well Owner: TERRY DUMIRE	
		Well Address: 1000 BLOCK W. CARLETON RD PARCEL C	Owner Address: 1000 BLOCK W. CARLETON RD PARCEL C

Drilling Method: Rotary	Pump Installed: No
Well Depth: 192.00 ft.	Pressure Tank Installed: No
Well Type: New	Pressure Relief Valve Installed: No
Well Use: Test well	
Date Completed: 6/7/2016	
Casing Type: PVC plastic	
Height: 1.00 ft. above grade	
Casing Joint: Solvent welded/glued	
Casing Fitting: None	
Diameter: 5.00 in. to 186.00 ft. depth	
Borehole: 8.00 in. to 192.00 ft. depth	
Static Water Level: 28.00 ft. Below Grade	
Well Yield Test:	
Yield Test Method: Test pump	
Pumping level 40.50 ft. after 4.00 hrs. at 15 GPM	
Screen Installed: Yes	Filter Packed: Yes
Screen Diameter: 4.00 in.	Blank:
Screen Material Type: Stainless steel-slotted	
Screen Installation Type: Attached	
Slot	Length
0.18	6.00 ft.
Set Between	
186.00 ft. and 192.00 ft.	
Fittings: None	
Well Grouted: Yes	Grouting Method: Grout pipe outside casing
Grouting Material	Bags
Bentonite dry granular	8.00
Additives	Depth
None	0.00 ft. to 186.00 ft.
Wellhead Completion: 12 inches above grade	
Nearest Source of Possible Contamination:	
Type	Distance
Septic tank	50 ft.
Direction	
East	
Drilling Machine Operator Name: JASON RICHARDS	
Employment: Employee	
Contractor Type: Water Well Drilling Contractor	Reg No: 46-0551
Business Name: Gordon & Sons Water Well Drlg	
Business Address: 3768 W Monroe Rd, Tipton, MI, 49287	
Water Well Contractor's Certification	
This well/pump was constructed under my supervision and I hereby certify that the work complies with Part 127 Act 368 PA 1978 and the well code.	
Signature of Registered Contractor	Date
General Remarks:	
Other Remarks:	



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MDO-117-2350-00	Permit No: 28499	County: Lenawee	Township: Madison
Well ID: 46000007730 Elevation: Latitude: 41.87085 Longitude: -84.082111 Method of Collection: GPS Std Positioning Svc SA On		Town/Range: 07S 03E	Section: 17
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 1/5 OF A MILE SOUTH OF CADMUS RD ON THE WEST SIDE OF SAND CREEK HWY	
		Well Owner: HARVEY SOUNDERS	
		Well Address: 3224 SAND CREEK HWY ADRIAN, MI 49221	Owner Address: 3224 SAND CREEK HWY ADRIAN, MI 49221

Drilling Method: Rotary Well Depth: 142.00 ft. Well Type: Replacement Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 5.00 in. to 138.00 ft. depth SDR: 21.00 Borehole: 8.00 in. to 142.00 ft. depth	Well Use: Household Date Completed: 6/21/2016 Height: 1.00 ft. above grade Static Water Level: 35.00 ft. Below Grade Well Yield Test: Pumping level 65.00 ft. after 2.00 hrs. at 15 GPM Screen Installed: Yes Screen Diameter: 4.00 in. Screen Material Type: Stainless steel-slotted Screen Installation Type: Attached Slot Length Set Between: 0.18 4.00 ft. 138.00 ft. and 142.00 ft. Fittings: None	Pump Installed: Yes Pump Installation Date: 6/21/2016 Manufacturer: F.E. Myers Model Number: J512P Drop Pipe Length: 87.00 ft. Drop Pipe Diameter: 1.00 in. Draw Down Seal Used: No Pressure Tank Installed: Yes Pressure Tank Type: Diaphragm/bladder Manufacturer: Well-X-Trol Model Number: WX202 Pressure Relief Valve Installed: Yes	Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 10 GPM Pump Voltage: 203 Drilling Record ID:																																													
		<table border="1"> <thead> <tr> <th>Formation Description</th> <th>Thickness</th> <th>Depth to Bottom</th> </tr> </thead> <tbody> <tr><td>Sand</td><td>17.00</td><td>17.00</td></tr> <tr><td>Clay</td><td>40.00</td><td>57.00</td></tr> <tr><td>Sand</td><td>12.00</td><td>69.00</td></tr> <tr><td>Clay</td><td>66.00</td><td>135.00</td></tr> <tr><td>Sand & Gravel</td><td>7.00</td><td>142.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Formation Description	Thickness	Depth to Bottom	Sand	17.00	17.00	Clay	40.00	57.00	Sand	12.00	69.00	Clay	66.00	135.00	Sand & Gravel	7.00	142.00																												
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Well Grouted: Yes Grouting Material: Bentonite slurry Grouting Method: Grout pipe outside casing Bags: 6.00 Additives: None Depth: 0.00 ft. to 138.00 ft.		Geology Remarks:																																														
Wellhead Completion: Pitless adapter, 12 inches above grade		Drilling Machine Operator Name: JASON RICHARDS Employment: Employee																																														
Nearest Source of Possible Contamination: <table border="1"> <thead> <tr> <th>Type</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Septic tank</td> <td>50 ft.</td> <td>West</td> </tr> </tbody> </table>		Type	Distance	Direction	Septic tank	50 ft.	West	Contractor Type: Water Well Drilling Contractor Business Name: Gordon & Sons Water Well Drlg Business Address: 3768 W Monroe Rd, Tipton, MI, 49287																																								
Type	Distance	Direction																																														
Septic tank	50 ft.	West																																														
Abandoned Well Plugged: Yes Latitude: 41.87087 Casing Diameter: 4 in. Plugging Material: Bentonite chips/pellets No. of Bags: 8.00 Longitude: -84.08213 Casing Removed: No Well Depth: 63 ft.		Reg No: 46-0551 Water Well Contractor's Certification This well and/or pump installation was performed under my registration. Signature of Registered Contractor _____ Date _____																																														
General Remarks:																																																
Other Remarks:																																																



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: 755-0040-00	Permit No: 28609	County: Lenawee	Township: Madison				
Well ID: 46000007914 Elevation: Latitude: 41.867928 Longitude: -84.086009 Method of Collection: GPS Std Positioning Svc SA Off		Town/Range: 07S 03E	Section: 17	Well Status: Active	WSSN:	Source ID/Well No:	
		Distance and Direction from Road Intersection: 2nd house from end of Plainview north on south side					
		Well Owner: Ryan McCormick					
		Well Address: Lot 4 Plainview Dr North Adrian, MI 49221			Owner Address: Lot 4 Plainview Dr North Adrian, MI 49221		

Drilling Method: Rotary Well Depth: 150.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 5.00 in. to 142.00 ft. depth SDR: 21.00 Borehole: 8.75 in. to 150.00 ft. depth	Well Use: Household Date Completed: 12/1/2016 Height: 1.00 ft. above grade Static Water Level: 30.00 ft. Below Grade Well Yield Test: Pumping level 140.00 ft. after 1.00 hrs. at 50 GPM Yield Test Method: Air Screen Installed: Yes Screen Diameter: 3.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Attached Slot Length Set Between: 15.00 8.00 ft. 142.00 ft. and 150.00 ft. Fittings: None	Pump Installed: Yes Pump Installation Date: 2/21/2017 Manufacturer: Sta-Rite Model Number: S10P4HS05221-03 Drop Pipe Length: 40.00 ft. Drop Pipe Diameter: 1.00 in. Draw Down Seal Used: No Pump Installation Only: No HP: 0.50 Pump Type: Submersible Pump Capacity: 10 GPM Pump Voltage: 230 Drilling Record ID: Pressure Tank Installed: Yes Pressure Tank Type: Diaphragm/bladder Manufacturer: Flex-Lite-Flexcon Model Number: FL-7 Tank Capacity: 22.0 Gallons Pressure Relief Valve Installed: Yes	<table border="1"><thead><tr><th>Formation Description</th><th>Thickness</th><th>Depth to Bottom</th></tr></thead><tbody><tr><td>Brown Sand & Gravel</td><td>23.00</td><td>23.00</td></tr><tr><td>Gray Clay</td><td>67.00</td><td>90.00</td></tr><tr><td>Gray Clay & Gravel</td><td>47.00</td><td>137.00</td></tr><tr><td>Gray Sand & Gravel</td><td>13.00</td><td>150.00</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Formation Description	Thickness	Depth to Bottom	Brown Sand & Gravel	23.00	23.00	Gray Clay	67.00	90.00	Gray Clay & Gravel	47.00	137.00	Gray Sand & Gravel	13.00	150.00																																	
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Well Grouted: Yes Grouting Material: Bentonite slurry Bags: 14.00 Additives: None Depth: 0.00 ft. to 135.00 ft. Wellhead Completion: 12 inches above grade	Grouting Method: Grout pipe outside casing Geology Remarks:	Drilling Machine Operator Name: Matt Kleinfelt Employment: Employee																																																	
Nearest Source of Possible Contamination: Type: Septic tank Distance: 50 ft. Direction: South	Contractor Type: Water Well Drilling Contractor Business Name: Sebastian & Sons Business Address: 28731 U Drive N, Springport, MI, 49284 Reg No: 13-1559 Water Well Contractor's Certification This well and/or pump installation was performed under my registration. Signature of Registered Contractor Date																																																		
General Remarks:																																																			
Other Remarks:																																																			



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MDO-115-2280-00	Permit No: 29048	County: Lenawee	Township: Madison
Well ID: 46000008347 Elevation: Latitude: 41.87441 Longitude: -84.04684 Method of Collection: GPS Std Positioning Svc SA On		Town/Range: 07S 03E	Section: 15
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 1/4 OF A MILE EAST OF CADMUS RD ON THE SOUTH SIDE OF CADMUS RD	
		Well Owner: LAWRENCE LAFOLLETTE	
		Well Address: 1185 CADMUS RD ADRIAN, MI 49221	Owner Address: 1185 CADMUS RD ADRIAN, MI 49221

Drilling Method: Rotary	Pump Installed: Yes	Pump Installation Only: No
Well Depth: 111.00 ft.	Pump Installation Date: 10/31/2018	HP: 0.50
Well Type: Replacement	Manufacturer: F.E. Myers	Pump Type: Submersible
Date Completed: 10/31/2018	Model Number: J512P	Pump Capacity: 12 GPM
Casing Type: PVC plastic	Drop Pipe Length: 67.00 ft.	Pump Voltage: 230
Height: 1.00 ft. above grade	Drop Pipe Diameter: 1.00 in.	Drilling Record ID:
Casing Joint: Solvent welded/glued	Draw Down Seal Used: No	
Casing Fitting:	Pressure Tank Installed: Yes	
Diameter: 5.00 in. to 105.00 ft. depth SDR: 21.00	Pressure Tank Type: Diaphragm/bladder	
	Manufacturer: Well-X-Trol	
Borehole: 8.00 in. to 111.00 ft. depth	Model Number: WX203	Tank Capacity: 32.0 Gallons
	Pressure Relief Valve Installed: Yes	

Static Water Level: 20.00 ft. Below Grade	Formation Description	Thickness	Depth to Bottom
Well Yield Test: Pumping level 30.00 ft. after 2.00 hrs. at 20 GPM			
Yield Test Method: Air	Clay	14.00	14.00
	Sand	11.00	25.00
	Clay	75.00	100.00
	Sand	11.00	111.00

Screen Installed: Yes	Filter Packed: Yes	Geology Remarks:
Screen Diameter: 4.00 in.	Blank:	
Screen Material Type: Stainless steel-slotted		
Screen Installation Type: Attached		
Slot	Length	Set Between
18.00	6.00 ft.	105.00 ft. and 111.00 ft.
Fittings: None		
Well Grouted: Yes	Grouting Method: Grout pipe outside casing	
Grouting Material	Bags	Additives
Bentonite slurry	5.00	None
		Depth
		0.00 ft. to 105.00 ft.

Wellhead Completion: Pitless adapter, 12 inches above grade
--

Nearest Source of Possible Contamination:	Drilling Machine Operator Name: JASON RICHARDS
Type	Employment: Employee
Distance	
Direction	
Sewer line	
50 ft.	
North	

Abandoned Well Plugged: No	Contractor Type: Water Well Drilling Contractor	Reg No: 46-0551
Reason Not Plugged: Other	Business Name: Gordon & Sons Water Well Drlg	
	Business Address: 3768 W Monroe Rd, Tipton, MI, 49287	

	Water Well Contractor's Certification	
	This well and/or pump installation was performed under my registration.	
	Signature of Registered Contractor	Date

General Remarks:

Other Remarks: Not Plugged Reason:WELL ON SEPARATE PROPERTY
--



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: XAO-109-1150-02	Permit No: 29087	County: Lenawee	Township: Madison
Well ID: 46000008378 Elevation: Latitude: 41.88665 Longitude: -84.07692 Method of Collection: GPS Std Positioning Svc SA On		Town/Range: 07S 03E	Section: 9
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: 1/4 MILE EAST OF SAND CREEK HWY ON THE SOUTH SIDE OF BEECHER RD	
		Well Owner: FLURESH INC.	
		Well Address: 1751 WEST BEECHER RD ADRIAN, MI 49221	Owner Address: 1751 WEST BEECHER RD ADRIAN, MI 49221

Drilling Method: Rotary Well Depth: 124.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 6.25 in. to 104.00 ft. depth SDR: 21.00 Borehole: 10.00 in. to 124.00 ft. depth	Well Use: Irrigation Date Completed: 12/13/2018 Height: 1.00 ft. above grade Static Water Level: 31.00 ft. Below Grade Well Yield Test: Pumping level 41.00 ft. after 4.00 hrs. at 100 GPM Yield Test Method: Test pump	Pump Installed: Yes Pump Installation Date: 3/4/2019 Manufacturer: Franklin Electric Model Number: 2366528120 Drop Pipe Length: 80.00 ft. Drop Pipe Diameter: 3.00 in. Draw Down Seal Used: No Pressure Tank Installed: Yes Pressure Tank Type: Diaphragm/bladder Manufacturer: Well-X-Trol Model Number: WX251 Pressure Relief Valve Installed: Yes	Pump Installation Only: No HP: 10.00 Pump Type: Submersible Pump Capacity: 100 GPM Pump Voltage: 200 Drilling Record ID:																																													
Screen Installed: Yes Screen Diameter: 6.00 in. Screen Material Type: Stainless steel-slotted Screen Installation Type: Attached Slot Length Set Between: 0.15 20.00 ft. 104.00 ft. and 124.00 ft. Fittings: None	Filter Packed: Yes Blank: Well Grouted: Yes Grouting Method: Grout pipe outside casing Grouting Material: Bentonite slurry Bags: 10.00 Additives: None Depth: 0.00 ft. to 104.00 ft.	<table border="1"> <thead> <tr> <th>Formation Description</th> <th>Thickness</th> <th>Depth to Bottom</th> </tr> </thead> <tbody> <tr><td>Clay</td><td>17.00</td><td>17.00</td></tr> <tr><td>Sand</td><td>4.00</td><td>21.00</td></tr> <tr><td>Clay</td><td>26.00</td><td>47.00</td></tr> <tr><td>Sand</td><td>5.00</td><td>52.00</td></tr> <tr><td>Clay</td><td>45.00</td><td>97.00</td></tr> <tr><td>Sand & Gravel</td><td>27.00</td><td>124.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Formation Description	Thickness	Depth to Bottom	Clay	17.00	17.00	Sand	4.00	21.00	Clay	26.00	47.00	Sand	5.00	52.00	Clay	45.00	97.00	Sand & Gravel	27.00	124.00																								
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		Contractor Type: Water Well Drilling Contractor Business Name: Gordon & Sons Water Well Drlg Business Address: 3768 W Monroe Rd, Tipton, MI, 49287 Reg No: 46-0551																																														
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Other Remarks: Contamination Source 1:SEWER MAIN																																																



Water Well And Pump Record

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.



Item 10.

Import ID:

Tax No: MDO-755-0050-00	Permit No: 29292	County: Lenawee	Township: Madison
Well ID: 46000008587 Elevation: Latitude: 41.868254 Longitude: -84.086573 Method of Collection: Interpolation-Map		Town/Range: 07S 03E	Section: 17
		Well Status: Active	WSSN:
		Source ID/Well No:	
		Distance and Direction from Road Intersection: LOT 5 - SOUTH OF CADMUS RD. AND WEST OF SAND CREEK HWY.	
		Well Owner: TOM AND CINDY PECHAITIS	
		Well Address: 3178 N. PLANEVIEW DR. ADRIAN, MI 49221	Owner Address: 3178 3178 N. PLANEVIEW DR. ADRIAN, MI 49221

Drilling Method: Rotary Well Depth: 150.00 ft. Well Type: New Casing Type: PVC plastic Casing Joint: Solvent welded/glued Casing Fitting: None Diameter: 5.68 in. to 146.00 ft. depth SDR: 21.00 0.00 in. to 146.00 ft. depth SDR: 0.00 Borehole: 9.00 in. to 150.00 ft. depth		Pump Installed: No Pressure Tank Installed: No Pressure Relief Valve Installed:																																														
Well Use: Household Date Completed: 12/4/2019 Height: 1.00 ft. above grade Static Water Level: 15.00 ft. Below Grade Well Yield Test: Pumping level 40.00 ft. after 2.00 hrs. at 60 GPM Pumping level 50.00 ft. after 2.00 hrs. at 80 GPM		<table border="1"> <thead> <tr> <th>Formation Description</th> <th>Thickness</th> <th>Depth to Bottom</th> </tr> </thead> <tbody> <tr><td>Sand</td><td>12.00</td><td>12.00</td></tr> <tr><td>Gray Clay</td><td>15.00</td><td>27.00</td></tr> <tr><td>Sand</td><td>15.00</td><td>42.00</td></tr> <tr><td>Gray Clay</td><td>23.00</td><td>65.00</td></tr> <tr><td>Sand & Clay</td><td>15.00</td><td>80.00</td></tr> <tr><td>Gray Clay</td><td>35.00</td><td>115.00</td></tr> <tr><td>Sand & Clay</td><td>22.00</td><td>137.00</td></tr> <tr><td>Gravel</td><td>13.00</td><td>150.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Formation Description	Thickness	Depth to Bottom	Sand	12.00	12.00	Gray Clay	15.00	27.00	Sand	15.00	42.00	Gray Clay	23.00	65.00	Sand & Clay	15.00	80.00	Gray Clay	35.00	115.00	Sand & Clay	22.00	137.00	Gravel	13.00	150.00																		
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Sand & Clay	22.00	137.00																																														
Gravel	13.00	150.00																																														
Screen Installed: Yes Screen Diameter: 5.00 in. Screen Material Type: Stainless steel-wire wrapped Screen Installation Type: Telescoped Slot Length Set Between: 25.00 14.00 ft. 146.00 ft. and 150.00 ft. Fittings: Neoprene packer		Filter Packed: No Blank: Geology Remarks:																																														
Well Grouted: Yes Grouting Material: Bentonite slurry Grouting Method: Grout pipe outside casing Bags: 12.00 Additives: None Depth: 0.00 ft. to 140.00 ft.		Wellhead Completion: 12 inches above grade																																														
Nearest Source of Possible Contamination: Type: Drainfield/Dry well Distance: 110 ft. Direction: East		Drilling Machine Operator Name: Kurt Wing Employment: Employee Pump Installer: NOT YET INSTALLED																																														
		Contractor Type: Water Well Drilling Contractor Business Name: Cribley Drilling Company Business Address: 8300 Dexter-Chelsea Rd, Dexter, MI, 48130 Reg No: 81-2014																																														
		Water Well Contractor's Certification This well and/or pump installation was performed under my registration.																																														
		Signature of Registered Contractor _____ Date _____																																														
General Remarks: PUMPING EQUIPMENT TO BE INSTALLED BY OTHER THAN CRIBLEY DRILLING CO., INC.																																																
Other Remarks:																																																

Attachment III
Tritium Laboratory Report

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

SEND DATA TO:

Name: Tim Watterson
Company: Madison Charter Township
Address: 3804 S Adrian Hwy
City/State: Adrian, Michigan
Phone: 517-403-0428
Email: twatterson@madisontwp.com

SEND INVOICE TO: (if different from SEND DATA TO:)

Name: _____
Company: _____
Address: _____
City/State: _____
Phone: _____
Email: _____

Project: New Drinking Water production Well Aquifer AssessmentPurchase Order #: 05092023Location: 3495 Baldwin Hwy WSSN-MI0004006Sampled By: Tim WattersonSelect One: ☐ Standard ☐ Priority ☒ Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analyses Requested			Comments
				TEE	TEE		
#1	3495 Baldwin Hwy N. Raw Tap	5/9/2023	9:30 am	Tritium			North Well Raw Tap
#2	3495 Baldwin Hwy S. Raw Tap	5/9/2023	3:30 pm		Tritium		South Well Raw Tap

Chain-of-Custody Record

Signature	Company	Date	Time
Relinquished by <u>Tim Watterson</u>	Madison Charter Township	<u>5-10-23</u>	<u>12:30</u>
Received by <u>Les Schluter / SR Isotech</u>		<u>5-11-23</u>	<u>9:15</u>
Relinquished by			
Received by			
Relinquished by			
Received by			

Address: 1308 Parkland Court Champaign, IL 61821-1826 Phone: 217-398-3490

ANALYSIS PACKAGE CODES

Code Analysis Included

Natural Gas Characterization using high precision dual inlet IRMS

NG-1 - Full GC composition, $\delta^{13}\text{C}$ & δD of CH_4

NG-2 - NG-1 plus $\delta^{13}\text{C}$ of C_2H_6 and C_3H_8

NG-3 - NG-2 plus $\delta^{13}\text{C}$ of iC_4H_{10} and nC_4H_{10}

NG-4 - NG-3 plus $\delta^{13}\text{C}$ of iC_5H_{12} and nC_5H_{12}

*-D - add $\delta^{13}\text{C}$ of CO_2 to any analysis package (e.g., NG-2-D)

Bacterial Gas Characterization

BG-1 - Full GC composition, $\delta^{13}\text{C}$ of CH_4 and CO_2 & δD of CH_4

BG-2 - BG-1 plus ^{14}C of CH_4

BG-3 - BG-2 plus ^3H of CH_4

Dissolved Gas

DGS - Dissolved gas screening, quantification of dissolved CH_4 , C_2H_6 , C_3H_8

DG-1 - Full Dissolved Gas GC, $\delta^{13}\text{C}$ & δD of CH_4

DG-2 - DG-1 plus $\delta^{13}\text{C}$ of C_2H_6 and C_3H_8

Mud Gas / Headspace Gas

MG-1 - Basic GC, $\delta^{13}\text{C}$ of CH_4 via GC-C-IRMS

MG-2 - MG-1 plus $\delta^{13}\text{C}$ of C_2H_6 and C_3H_8 via GC-C-IRMS

Water Isotope Analyses

RAG - Radiocarbon analysis of groundwater - $\delta^{13}\text{C}$ and ^{14}C of dissolved inorganic carbon (DIC)

SIW - Stable isotopes package - δD and $\delta^{18}\text{O}$ of water and $\delta^{13}\text{C}$ of DIC

TDC - Tritium of water by liquid scintillation counter (LSC), detection limit of 10-15 TU

TEE - Tritium of water with electrolytic enrichment by LSC, detection limit of <1TU

Water Chemistry Analyses

WAB - Basic Suite - (Na^+ , K^+ , Mg^{2+} , Ca^{2+}) + (SO_4^{2-} , Cl^-), alkalinity, pH, conductivity, density

WAE - Environmental Suite - WAB + (Ba^{2+} , Sr^{2+} , Fe^{2+} , Mn^{2+}) + (F^- , Br^- , NO_3^- , PO_4^{3-})

WAO - Oilfield Suite - WAB + (Ba^{2+} , Sr^{2+} , Fe^{2+} , Mn^{2+} , Li^+ , B^{3+}) + (Br^-)

Lab #: 871355 Job #: 54593 IS-113848 Co. Job#:
 Sample Name: 3495 Baldwin Hwy N Raw Tap Co. Lab#:
 Company: Madison Charter Township
 API/Well:
 Container: 1000 ml bottle
 Field/Site Name: New Drinking Water production Well Aquifer Assessment
 Location: 3495 Baldwin Hwy WSSN-MI0004006
 Formation/Depth:
 Sampling Point:
 Date Sampled: 5/09/2023 9:30 Date Received: 5/11/2023 Date Reported: 6/22/2023

δD of water ----- na
 $\delta^{18}O$ of water ----- na
 Tritium content of water ----- < 0.89 TU
 $\delta^{13}C$ of DIC ----- na
 ^{14}C content of DIC ----- na
 $\delta^{15}N$ of nitrate ----- na
 $\delta^{18}O$ of nitrate ----- na
 $\delta^{34}S$ of sulfate ----- na
 $\delta^{18}O$ of sulfate ----- na
 Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 871356 Job #: 54593 IS-113848 Co. Job#:
 Sample Name: 3495 Baldwin Hwy S Raw Tap Co. Lab#:
 Company: Madison Charter Township
 API/Well:
 Container: 1000 ml bottle
 Field/Site Name: New Drinking Water production Well Aquifer Assessment
 Location: 3495 Baldwin Hwy WSSN-MI0004006
 Formation/Depth:
 Sampling Point:
 Date Sampled: 5/09/2023 15:30 Date Received: 5/11/2023 Date Reported: 6/22/2023

δD of water ----- na
 $\delta^{18}O$ of water ----- na
 Tritium content of water ----- < 1.25 TU
 $\delta^{13}C$ of DIC ----- na
 ^{14}C content of DIC ----- na
 $\delta^{15}N$ of nitrate ----- na
 $\delta^{18}O$ of nitrate ----- na
 $\delta^{34}S$ of sulfate ----- na
 $\delta^{18}O$ of sulfate ----- na
 Vacuum Distilled? * ----- No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

INTERGOVERNMENTAL AGREEMENT

FOR CONSTRUCTION CODE ADMINISTRATION AND ZONING ADMINISTRATION SERVICES BETWEEN MADISON CHARTER TOWNSHIP AND OGDEN TOWNSHIP

RECITALS

WHEREAS, the Michigan Urban Cooperation Act, MCL 124.501 et seq., authorizes intergovernmental agreements; WHEREAS, Ogden Township desires Construction Code Administration and Zoning Administration Services; WHEREAS, Madison possesses qualified personnel and resources; NOW THEREFORE the parties agree as follows.

ARTICLE I - DEFINITIONS

Defines Construction Code Services, Zoning Administration Services, ZBA, Extraordinary Expenses, Applicable Laws, and Permit Fees.

ARTICLE II - PURPOSE

Madison shall provide Construction Code Administration and Zoning Administration Services within Ogden Township while Ogden retains legislative and policy authority.

ARTICLE III - CONSTRUCTION CODE ADMINISTRATION SERVICES

Madison shall administer permits, plan reviews, inspections, enforcement, certificates of occupancy, certificates of completion, and all Building, Electrical, Mechanical, and Plumbing disciplines under the State Construction Code Act, MCL 125.1501 et seq.

ARTICLE IV - ZONING ADMINISTRATION SERVICES

Madison shall act as zoning administrator, receive and review zoning applications, issue permits, investigate complaints, determine compliance, maintain records, and perform administrative enforcement pursuant to MCL 125.3101 et seq. and the Ogden Township Zoning Ordinance.

ARTICLE V - ZONING BOARD OF APPEALS

Ogden shall maintain an independent ZBA. All variances, appeals, interpretations, public hearings, notices, decisions, and appointments remain the sole responsibility of Ogden Township.

ARTICLE VI - FEES AND REVENUE

Madison shall retain all construction code permit fees, inspection fees, plan review fees, administrative fees, and zoning permit fees. Ogden shall retain all ZBA-related fees. Any ZBA fees collected by Madison shall be remitted to Ogden within 30 days.

ARTICLE VII - PERMIT FEE SCHEDULES

Fee schedules shall be established by board resolution and may be amended without amending this Agreement. Exhibits A, B, and C are incorporated by reference.

ARTICLE VIII - PLANNING COMMISSION AND LEGISLATIVE AUTHORITY

Ogden retains authority over planning commission functions, master plans, zoning amendments, special land uses, rezonings, and legislative decisions.

ARTICLE IX - RECORDS AND FOIA COMPLIANCE

Records shall be maintained in compliance with FOIA, MCL 15.231 et seq., state retention schedules, and applicable construction code and zoning laws.

ARTICLE X - ENFORCEMENT ACTIONS

Madison may investigate violations and perform administrative enforcement. Litigation on behalf of Ogden requires authorization from Ogden Township.

ARTICLE XI - EXTRAORDINARY EXPENSES

Ogden shall reimburse attorney fees, consultant fees, expert witness fees, engineering expenses, planning expenses, litigation costs, and other extraordinary expenditures arising from Ogden-specific matters.

ARTICLE XII - STAFFING AND PERSONNEL

All service providers remain employees, contractors, or agents of Madison. Nothing herein creates an employment relationship with Ogden Township.

ARTICLE XIII - INSURANCE

Each party shall maintain general liability, automobile liability, workers compensation, and public officials liability insurance.

ARTICLE XIV - INDEMNIFICATION

Each party shall indemnify the other for claims arising from its own negligent acts or omissions. Ogden shall specifically indemnify Madison for zoning ordinance, planning commission, ZBA, and legislative actions.

ARTICLE XV - AUDIT AND REPORTING

Madison shall provide annual reporting regarding permits, inspections, revenues, zoning permits, enforcement matters, and operational statistics.

ARTICLE XVI - TERM

Agreement becomes effective upon approval and automatically renews annually unless terminated.

ARTICLE XVII - TERMINATION

Either party may terminate upon ninety days written notice. Records shall be transferred and outstanding obligations paid.

ARTICLE XVIII - DISPUTE RESOLUTION

Disputes shall first be addressed by the Township Supervisors, then mediation, then litigation in Lenawee County Circuit Court.

ARTICLE XIX - NOTICES

Official notices shall be delivered to the Township Supervisors or designated representatives.

ARTICLE XX - GOVERNING LAW AND ENTIRE AGREEMENT

Michigan law governs. This document represents the entire agreement and may only be amended by written action of both boards.

EXHIBIT A

MADISON CHARTER TOWNSHIP CONSTRUCTION CODE FEE SCHEDULE

Fee Amounts: TO BE ESTABLISHED BY BOARD RESOLUTION

EXHIBIT B

OGDEN TOWNSHIP ZONING PERMIT FEE SCHEDULE

Fee Amounts: TO BE ESTABLISHED BY BOARD RESOLUTION

EXHIBIT C

OGDEN TOWNSHIP ZONING BOARD OF APPEALS FEE SCHEDULE

Fee Amounts: TO BE ESTABLISHED BY BOARD RESOLUTION

SIGNATURES

MADISON CHARTER TOWNSHIP

Approved by Resolution No. _____

Supervisor: _____

Clerk: _____

OGDEN TOWNSHIP

Approved by Resolution No. _____

Supervisor: _____

Clerk: _____

Memorandum

To: Madison Township Board of Trustees

From: Police Chief David Gentner

Date: September 3, 2026

Subject: Police Department Grant Funding and Recommended Building Improvements

The Police Department has been awarded a **\$16,000 State grant** that is restricted for use on **building and structure improvements**.

Chief Gentner is recommending the Board authorize the use of these funds for improvements to the Police Department facilities. Specifically, he is recommending:

1. Gutter Replacement

- Award the gutter replacement project to **Brothers Doing Gutters**, a local contractor located within Madison Township. The proposal includes the removal and replacement of gutters and downspouts on the Police Department building. The quoted cost is **\$7,903.75**.

2. Drainage Improvements

- Award the drainage improvement project to **Campbell Concrete**. The project is intended to improve drainage between the Fire Department and Police Department buildings through installation of a trench drain, concrete improvements, and a stone drainage area. The quoted cost is **\$6,536.00**.

These projects address ongoing building and site drainage concerns and are consistent with the allowable uses of the grant funding. Utilizing the grant for these improvements will help protect Township facilities, improve stormwater management, and reduce future maintenance issues.

I recommend the Board approve moving forward with these projects and authorizing use of the grant funds for these building-related improvements.

Respectfully,

David Gentner

Chief of Police

Madison Township Police Department

Brothers Doing Gutters
Residential & Commercial Rain Carrying Systems
Gutters, Downspout, Gutter Cleaning,

Item 2.

4987 Furman Hwy
Clayton MI 49235

E-Mail swr44@yahoo.com
Cell-517-605-7036

DAVE GETLEN

PROPOSAL SUBMITTED TO:
MANISON FIRE & POLICE

PHONE:
270-9714

DATE:
8-3-26

STREET:
4008 S ADRIAN AVE

JOB NAME:

CITY, STATE AND ZIP:
ADRIAN MI 49221

JOB LOCATION:
NORTH & SOUTH SIDES + EAST SIDE

EMAIL:

COLOR:

JOB NUMBER

DATE OF PLANS

ROYAL BROWN

We hereby submit specifications and estimates for:

REMOVE AND HAUL AWAY OLD GUTTERS.
INSTALL 6" COMMERCIAL SEAMLESS ALUMINUM GUTTERS
AND NINE 4"X5" COMMERCIAL DOWNSPOUTS.

Payment to be made as follows: When Job is complete

Total \$ 7903.⁷⁵

All Material is guaranteed to be specifies. All work to be Complete in a workmanlike manor according to standard Practices. Any alterations or deviation from above specifications Involving extra costs will be executed only upon written orders And will become an extra charge over and above the estimate. All Agreements contingent upon strikes, accidents, or delays beyond Our control. Owner to carry fire, tornado and other necessary Insurance

Authorized
Signature

Dave 206 4519

Note: This proposal may be withdrawn by us if not accepted within 15 days

Acceptance of proposal- The above prices, specifications and conditions are

Satisfactory and are hereby accepted. You are authorized to do the work as specified
Payment will be made as outlined above

Signature

Signature

Date of Acceptance

Terms: a finance charge of 1.5% per month (annual Rate of 18%) will be charged on balances over 30 days

CUSTOMER AGREEMENT

Pure Gutter Solutions LLC
 MAIN # 313-805-8746
 zwertz@pureguttersolutions.com



This agreement has been made and entered by DAVE GENTNER (owner) and Pure Gutter Solutions LLC (Contractor) who will furnish all labor and materials necessary to provide the work at 4008 SADUAN HWY (street address) in the city of ADRIAN (city) and zip code 49221 (zip code)

Customer Phone: 517-270-9714

WORK SCOPE:

REMOVE AND DISPOSE EXISTING GUTTERS & DOWNS
ON POLICE OFFICE & THE BUILDING BEHIND IT. WE
WILL INSTALL ALL NEW SEAMLESS 6" GUTTERS & DOWNS
TO EACH BLDG - SEAL ALL CONNECTIONS - HANG WITH BRACKETS
EVERY 12"-18" ASSURE PROPER PITCH FOR WATER FLOW
PRICE INCLUDES LABOR MATERIAL TAX CLEANUP & DISPOSAL

PAY TERMS:

Contract price: \$7336

Down payment: \$0 paid via _____

Remaining balance: \$7336 paid via _____

SCHEDULE DATE:

Finance: Plan _____
 Auth # _____

CHECK ONLY AT COMPLETION

- A) It is hereby understood and agreed that the unpaid balance of cash price or the bank completion certificate must be paid to the Seller's installer at the time the work is completed.
 B) If full price for all contract work is not to be paid in cash, then this contract is subject to financing approval.
 C) Installation is subject to production scheduling, weather conditions and related factors.
 D) The Contractor shall furnish materials for the work and complete the work to be done in a professional manner.
 E) All workmanship is guaranteed for one (1) calendar year. Service calls after one (1) year shall be subject to a service charge.
 F) You, the buyer, may cancel this transaction at any time prior to midnight of the third business day after the date of this transaction. See the attached notice of cancellation form for an explanation of this right. It is agreed that if the Owner cancels this contract AFTER THREE (3) DAYS from date of acceptance and before commencement of work, through no fault of the Contractor, the Owner agrees to pay 25% of the contract price or the cost of the materials purchased by the Contractor to the date of cancellation, whichever is greater.
 G) Installation crews maintains a \$1,000,000 business liability insurance policy.

(Customer Signature)

DEVIN WERTZ
 (Pure Gutter Representative)

313 971 1072



ESTIMATE

ESTIMATE #: 1791
DATE: 9-1-26

513 Woodridge Dr.
Adrian, MI 49221
17-605-1919
campbellconcrete@live.com
reggancampbell@outlook.com

TO: Madison Police Department
4008 S Adrian Hwy.
Adrian

DESCRIPTION	RATE	TOTAL
Concrete Pad 18x18=324 ^{sq} 4" front finish	\$14 ^{sq}	\$4,536
Decorative Stone & Fabric	—	\$1,000
Trench Drain ran to Downspout.	—	\$700
Cut out Sod & Load of Stone for Base	—	\$300
Concrete / 6 Bag		
1/2 Fiber		
Rebar		
Sealer		
Grand Total:		\$6,536

All concrete poured is not 100% guaranteed by Campbell Concrete, SCORP.
Not responsible for damage due to salt exposure or cold temperatures.
Concrete can crack in unexpected areas.

1

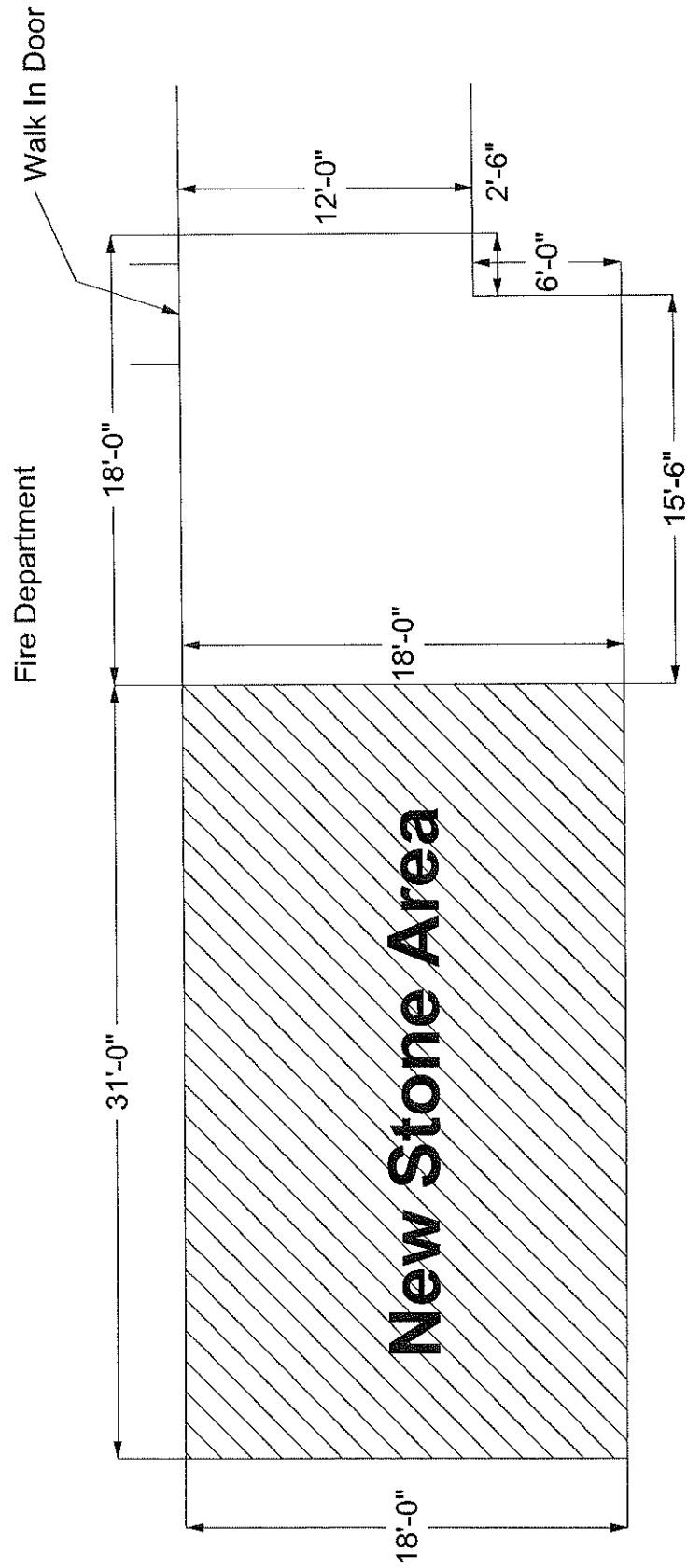
W

2

B



A



Dave Gentner

Phenicie Enterprises LLC.
Concrete Flatwork & Excavating
Phone Number: (517) 204-7224

Item 2.

1

4

2

PHENICIE ENTERPRISES, LLC

Concrete Flatwork and Excavating

ESTIMATE

Serving Customers Since 2004

1530 E Gorman Rd.

Adrian, MI 49221

(517) 204-7224

phenicieenterprisesllc@gmail.com

ESTIMATE #	DATE
2026-88	8-30-2026

TO

Dave Gentner

4008 S Adrian Hwy

Adrian, MI 49221

517-270-9714

dgentner@madisontwp.com

PROJECT

New concrete patio

ITEMIZED COSTS

AMOUNT

Dig sod out and haul away.

Prep and pour patio per the attached drawing.

4000 psi concrete mix

#10 wire mesh for reinforcement

Apply a penetrating sealer after 7 day cure

Dig sod out between the patio and building.

Lay weed mat down and haul in #6 limestone.

Thank you for your business!

\$ 6,988.00

To schedule a time for us to complete the work, or if you have any questions, please contact
Barry Phenicie (517) 204-7224

****Credit card payments are accepted with a 4% fee added to the total.**

INDEPENDENT CONTRACTOR AGREEMENT

DANGEROUS BUILDING HEARING OFFICER

This Independent Contractor Agreement (“Agreement”) is made and entered into this 8th day of September 2026, by and between the **Charter Township of Madison**, Lenawee County, Michigan, a Michigan municipal corporation (“Township”), and **Dave Newland** (“Hearing Officer”).

Recitals

- A. The Township has adopted the Charter Township of Madison Dangerous Buildings Ordinance, Ordinance No. 3 (adopted July 10, 1979; amended May 18, 1982 and September 14, 1993) (the “Ordinance”), which regulates the maintenance and safety of dangerous buildings and structures within the Township.
- B. Section 5.1 of the Ordinance authorizes the Township Supervisor to appoint a Dangerous Building Hearing Officer, who shall be a person with expertise in housing matters and who shall not be an employee of the enforcing agency.
- C. The Township Board authorized this Agreement on September 8, 2026, and the Township Supervisor has appointed the Hearing Officer to serve pursuant to Section 5 of the Ordinance.
- D. The Hearing Officer represents that the Hearing Officer possesses the expertise required by Section 5.1 of the Ordinance, is not an employee of the Township or of the enforcing agency, and is willing to perform the duties of Dangerous Building Hearing Officer as an independent contractor on the terms set forth below.

NOW, THEREFORE, in consideration of the mutual promises set forth below, the parties agree as follows:

1. Engagement and Appointment

The Township engages the Hearing Officer to serve as the Dangerous Building Hearing Officer for the Charter Township of Madison pursuant to Section 5 of the Ordinance. The Hearing Officer is appointed by, and serves at the pleasure of, the Township Supervisor as provided in Section 5.1 of the Ordinance.

2. Qualifications and Independence

The Hearing Officer represents and warrants, and shall maintain throughout the term of this Agreement, that the Hearing Officer:

- (a) Has expertise in housing matters within the meaning of Section 5.1 of the Ordinance (including, but not limited to, service as an engineer, architect, building contractor, building inspector, or member of a community housing organization);
- (b) Is not an employee of the Township or of the enforcing agency (the Township acting through its Building Official) as required by Section 5.1 of the Ordinance; and
- (c) Is independent of the enforcing agency such that the Hearing Officer may impartially adjudicate matters in which the enforcing agency presents evidence under Section 5.3 of the Ordinance.

3. Duties

The duties of the Hearing Officer are those prescribed by Sections 4 through 6 of the Ordinance, which are incorporated by reference, and include the following:

- (a) Receive and maintain copies of dangerous building notices filed with the Hearing Officer by the enforcing agency under Section 5.2 of the Ordinance;
- (b) Schedule and preside over hearings on whether a building or structure is a dangerous building, ensuring that notice and service requirements of Sections 4.3 and 4.4 of the Ordinance are satisfied before the hearing proceeds;
- (c) Take the testimony of the enforcing agency, the owner of the property, and any interested party, as provided in Section 5.3 of the Ordinance;
- (d) Render a written decision not more than five (5) days after completion of the hearing, either closing the proceedings or ordering the building or structure demolished, otherwise made safe, or properly maintained, and fixing a time for compliance, as provided in Sections 5.3 and 5.4 of the Ordinance;
- (e) Upon noncompliance, file a report of findings and a copy of the order with the Township Board not more than five (5) days after noncompliance, and cause a copy of the findings and order to be served on the owner, agent, or lessee in the manner prescribed by Section 4.4, all as provided in Section 5.5 of the Ordinance;
- (f) Appear and present the findings and order at the enforcement hearing before the Township Board under Section 6 of the Ordinance, and appear and testify in any proceeding for an order of superintending control in the circuit court under Section 10 of the Ordinance, as reasonably requested;
- (g) Keep accurate records of all matters heard and decided, and conduct all hearings and issue all decisions in compliance with the Ordinance, the Housing Law of the State of Michigan (Act No. 167 of the Public Acts of 1917, as amended), the State Construction Code Act (Act No. 230 of the Public Acts of 1972, as amended), the Township Building Code, and applicable due-process requirements.

4. Impartiality and Standard of Conduct

The Hearing Officer shall act in a quasi-judicial capacity and shall decide each matter impartially and solely on the evidence presented on the record. The Hearing Officer shall not engage in ex parte communication with the enforcing agency, the owner, or any interested party regarding the merits of a pending matter, and shall render each decision within the time prescribed by the Ordinance.

5. Conflict of Interest and Recusal

The Hearing Officer shall comply with all applicable state statutes, regulations, and local ordinances governing conflicts of interest. The Hearing Officer shall not hear or decide any matter in which the Hearing Officer, or a member of the Hearing Officer's immediate family, has a direct or indirect pecuniary interest, or in which the Hearing Officer performed an inspection or otherwise contributed labor or materials to the building or structure at issue. The Hearing Officer shall promptly disclose any such interest and shall recuse from the matter.

6. Independent Contractor Status

The Hearing Officer is an independent contractor and not an employee of the Township. The Hearing Officer is entitled to no benefits or compensation other than as provided in this Agreement. The Township shall not withhold income tax, FICA, Social Security, Medicare, or similar amounts from the Hearing Officer's compensation, and shall not make any contribution to any Township retirement or benefit program on behalf

of the Hearing Officer. The Township shall issue the Hearing Officer a Form 1099 annually. The Hearing Officer is not entitled to workers' compensation coverage under any Township policy. The Hearing Officer determines the means and methods of performing the duties under this Agreement, subject to the deadlines and procedures fixed by the Ordinance, and shall not have a set work schedule but shall perform assigned duties within the time required by the Ordinance.

7. Compensation

For each dangerous building hearing conducted and completed by the Hearing Officer, the Township shall pay the Hearing Officer a fee of \$125.00 per property. This fee compensates the Hearing Officer for the hearing under Section 5.3, the preparation and service of the written decision under Sections 5.3 and 5.4, and the report of findings under Section 5.5 for that property.

- (a) A hearing that is continued or reconvened as to the same property shall be included in the per-property fee.
- (b) Appearances at an enforcement hearing before the Township Board under Section 6, and appearances or testimony in circuit court under Section 10, shall be compensated at \$25.00 per hour.
- (c) The Hearing Officer shall submit a written invoice for each request for payment to the Township Building Official (or such other office as the Township designates). Payment shall be made no later than thirty (30) days after the invoice is received. The Hearing Officer shall not be compensated for any hearing, session, or appearance that does not occur.

8. Insurance

- (a) **Township coverage (recommended for a quasi-judicial officer).** The Township shall extend the defense and indemnification set forth in Section 9 to the Hearing Officer for acts and omissions within the scope of the Hearing Officer's duties, and the Hearing Officer shall not be required to procure separate commercial general liability insurance.
- (b) **Motor vehicle liability.** If the Hearing Officer travels to a site in connection with the duties under this Agreement, the Hearing Officer shall maintain motor vehicle liability insurance with limits of not less than **\$100,000** per person, **\$300,000** per occurrence, and **\$25,000** property damage, and shall furnish the Township a certificate providing that thirty (30) days' advance written notice will be given to the Township of any cancellation.

9. Indemnification and Governmental Immunity

Except in the case of the Hearing Officer's own negligence or willful misconduct, the Township agrees to release and hold harmless the Hearing Officer from any and all claims, demands, causes of action, or damages of any kind or nature that arise out of or are related to the services provided by the Hearing Officer under this Agreement. To the extent of the coverages provided by the Township's insurance policies, the Township agrees to indemnify and defend the Hearing Officer against claims, demands, causes of action, or damages arising out of or relating to the Hearing Officer's duties pursuant to this Agreement.

This Agreement does not, and is not intended to, impair, divest, delegate, or contravene any constitutional, statutory, or other legal right, privilege, power, obligation, duty, or immunity of the Township, and nothing in this Agreement shall be construed as a waiver of governmental immunity by the Township under MCL 691.1407

or otherwise. Nothing in this Agreement limits any quasi-judicial or other immunity to which the Hearing Officer may be entitled at law.

10. Records and Return of Materials

The Hearing Officer shall maintain accurate records of all matters heard and decided and shall make available for public inspection any writing prepared, owned, used, or retained in the performance of an official function to the extent required by the Freedom of Information Act (Act No. 442 of the Public Acts of 1976, as amended). Upon termination of this Agreement, the Hearing Officer shall return to the Township all files, records, notices, orders, and other documents relating to the Township.

11. Term and Termination

This Agreement takes effect on the date first written above and continues until terminated. Consistent with Section 5.1 of the Ordinance, the Hearing Officer serves at the pleasure of the Township Supervisor, and the Township Supervisor may terminate this Agreement and the appointment at any time, with or without cause, effective on the date written notice of termination is delivered to the Hearing Officer. The Hearing Officer may terminate this Agreement upon thirty (30) days' advance written notice to the Township. Unless the Township directs otherwise, the Hearing Officer shall complete the decision on any matter already heard as of the effective date of termination. The Hearing Officer shall not be entitled to any compensation after the effective date of termination except for services rendered before that date.

12. Compliance with Law

The Hearing Officer shall comply with all applicable state statutes, regulations, and local ordinances in the performance of the duties under this Agreement, including the Ordinance and the notice, service, hearing, and recordkeeping requirements set forth therein.

13. Prohibition Against Assignment

The Hearing Officer's rights, interests, and obligations under this Agreement are personal and shall not be assigned, transferred, delegated, or pledged in any way.

14. Entire Agreement; Amendment

This Agreement contains the entire agreement and understanding between the parties, and no representation, promise, or understanding, written or oral, not contained herein shall be of any force or effect. This Agreement may be amended only by a writing signed by the Hearing Officer and the Township Supervisor upon approval of the Township Board.

15. Governing Law and Venue

This Agreement shall be governed by the laws of the State of Michigan. Any action brought to enforce or remedy a violation of this Agreement shall be brought in Lenawee County, Michigan, and each party submits to that jurisdiction.

16. Severability

If any provision of this Agreement is declared void or unenforceable by a court of competent jurisdiction, the remainder of this Agreement shall continue in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first written above.

CHARTER TOWNSHIP OF MADISON

By: _____

Its: Ryan Rank, Township Supervisor

Dated: _____

Township Board authorization date: _____

HEARING OFFICER

Signature: _____

Print Name: Dave Newland

Dated: _____