#### HOWELL TOWNSHIP BOARD MEETING

3525 Byron Road Howell, MI. 48855 August 08, 2022 6:30 pm

| 1.  |     | Call to Order:                   |  |       |                   |    |   |             |
|-----|-----|----------------------------------|--|-------|-------------------|----|---|-------------|
| 2.  |     | Roll Call:                       | Mike Coddington<br>Jean Graham<br>Jonathan Hohenst<br>Matthew Counts | ein   | ( )<br>( )<br>( ) | Ha | off Smith<br>Arold Melton<br>ke Newstead      | ( ) ( ) ( ) |
| 3.  |     | Pledge of Alleg                  | giance:  |       |                   |    |   |             |
| 4.  |     | Call to the Boa                  | ard:   |       |                   |    |   |             |
| 5.  |     | Approval of the<br>A.Regular Boa | e Minutes:<br>ard Meeting July 11                                    | , 202 | 2                 |    |   |             |
| 6.  |     | Corresponden                     | ce:  |       |                   |    |   |             |
| 7.  |     | Call to the Pub                  | olic:  |       |                   |    |   |             |
| 8.  |     | Unfinished Bu                    | siness:  |       |                   |    |   |             |
| 9.  |     | B. BSNA – Clo<br>C. Burkhart Ri  | er Treatment Plant   | Hous  |                   |    |   | equest      |
| 10. |     |                                  | B. Treasurer F. Fire Authority J. WWTP                               | G. N  |                   | 3  | D. Zoning<br>H. Planning Co<br>L. Property Co |             |
|     | 11. | Call to the Pub                  | olic:  |       |                   |    |   |             |
|     | 12. | Disbursement<br>Regular and      | s:<br>Check Register   |       |                   |    |   |             |
|     | 12. | Adjournment:                     |  |       |                   |    |   |             |

# 

## HOWELL TOWNSHIP REGULAR BOARD PROPOSED MEETING MINUTES

3525 Byron Road Howell, MI 48855 July 11, 2022, 6:30 P.M.

MEMBERS ABSENT

**MEMBERS PRESENT:** 

Mike Coddington

Supervisor

Jean Graham

Clerk

Jonathan Hohenstein

Treasurer

Matthew Counts

Trustee

Harold Melton

Trustee

Michael Newstead

Trustee

Jeff Smith

Trustee

ALSO IN ATTENDANCE: Tim Boal, Luke Bowman, Mike Cieslinski, Ben Clark, Colin McDowell, Joe Ostafin, Tom Patterson, and Michael Smith.

Supervisor Coddington called the meeting to order at 6:30 p.m. The roll was called.

All rose for the Pledge of Allegiance.

#### APPROVAL OF THE AGENDA:

July 11, 2022

MOTION by Counts seconded by Hohenstein, "TO APPROVE THE JUNE 13, 2022 AGENDA AS PRESENTED," Discussion followed. Motion carried.

#### OPEN PUBLIC ENFORCEMENT HEARING-DANGEROUS BUILDINGS:

MOTION by Hohenstein, seconded by Graham, "TO OPEN THE PUBLIC ENFORCEMENT HEARING ON DANGEROUS BUILDINGS." Discussion followed. Motion carried. Joe Daus, Howell Township Zoning Administrator gave the Board a summary of the Dangerous Building Matter No. 2022-01. Jeff McKendrick, owner of 1073 Barron Road was present and held a discussion with the Board regarding the complaint and current status. MOTION by Hohenstein, seconded by Newstead "TO ACCEPT RESOLUTION 07.22.511 FINAL RESOLUTION AND ORDER OF THE HOWELL TOWNSHIP BOARD WITH THE CHANGE ON THE FRONT PAGE OF 30 DAYS TO 60 DAYS." A roll-call vote was taken: Coddington-Y, Smith-Y, Graham-Y, Counts-Y, Melton-Y, Hohenstein-Y, and Newstead-Y. Motion passes 7 to 0. MOTION by Counts, seconded by Newstead, "TO CLOSE THE PUBLIC HEARING." Discussion followed. Motion Carried.

#### APPROVAL OF BOARD MEETING MINUTES:

June 13, 2022

A. REGULAR BOARD MEETING MINUTES

MOTION by Hohenstein, seconded by Melton, "TO APPROVE THE JUNE 13, 2022 REGULAR MEETING MINUTES AS PRESENTED." Discussion followed. Motion carried.

#### **CORRESPONDENCE:**

No additions.

#### **CALL TO THE PUBLIC:**

The following individuals spoke regarding gunfire concerns:

Colin McDowell 2045 Brewer Road

Joe Ostafin 2079 Brewer Road

Mike Smith

2031 Brewer Road

Howell Township Board July 11, 2022

#### **UNFINISHED BUSINESS:**

A. HOWELL TOWNSHIP MARR ROAD DISCUSSION No update at this time.

B. INTRODUCTION OF A NEW ROAD MILLAGE

No interest in creating a new road millage at this time.

#### **NEW BUSINESS:**

A. 2021-2022 PROPOSED BUDGET AMENDMENT

MOTION by Graham, seconded by Counts, "TO APPROVE THE ROAD IMPROVEMENT EXPENSE BUDGET," Discussion followed. Motion carried.

MOTION by Hohenstein, seconded by Melton, "TO APPROVE WASTE WATER TREATMENT PLANT BIOSOLIDS REMOVAL EXPENSE OF \$28,500.00 TO ACCOUNT FOR SECOND BIOSOLIDS REMOVAL IN SAME YEAR." Discussion followed. Motion carried.

#### **REPORTS:**

A. SUPERVISOR:

Supervisor Coddington held a discussion regarding recent fireworks complaints the Township had received.

B. TREASURER:

Treasurer Hohenstein gave an update on the following items:

- > MiSignal
- Burkhart Ridge and REU(s)
- C. CLERK:
  - > ELECTION LAPTOPS

MOTION by Counts, seconded by Newstead, "TO APPROVE PRESENTED REQUEST FOR 3 RENEWED LAPTOPS PLUS LABOR." Discussion followed. Motion carried.

D. ZONING:

(See Zoning Administrator Daus's prepared written report.)

E. ASSESSING:

(See Assessor Kilpela's prepared written report.)

F. FIRE AUTHORITY:

Supervisor Coddington gave an update on the recent Howell Area Fire Authority meeting.

| G. MHOG: (Trustee Counts gave an update on the recent MHOG meeting.)  |
|---|
| H. PLANNING COMMISSION: No meeting in June.   |
| ZONING BOARD OF APPEALS (ZBA):     Trustee Melton gave an update on the last ZBA Meeting.   |
| J. WWTP: Treasurer Hohenstein gave an update from the June 15, 2022 and June 30, 2022 Meetings.   |
| Howell Township Board July 11, 2022   |
| MOTION by Counts, seconded by Smith, "TO APPROVE COMMITTEE REQUEST FOR AN AFTER-THE FACT APPROVAL FOR EMERGENCY FUNDS SPENT AS PRESENTED," Discussion followed. Motion carried.                                 |
| K. HAPRA (Trustee Melton gave an update on the June 14, 2022 HAPRA meeting.)  |
| L. Property Committee<br>Treasurer Hohenstein gave an update from the July 7, 2022 Property Committee Meeting. Treasurer<br>Hohenstein noted that the Oak Grove Road property will be going back on the market. |
| CALL TO THE PUBLIC: Luke Bowman asked the Board for a status update on the Marr Road issues.  |
| DISBURSEMENTS: REGULAR AND CHECK REGISTER:  |
| MOTION by Hohenstein, seconded by Melton, "TO APPROVE THE REGULAR DISBURSEMENTS AS PRESENTED, ALSO ANY CUSTOMARY AND NORMAL PAYMENTS FOR THE MONTH." Discussion followed. Motion carried.                       |
| ADJOURNMENT: MOTION by Counts, seconded by Newstead, "TO ADJOURN." Motion carried. The meeting adjourned (8:15 pm).   |
|   |
| As Presented: X Howell Township Clerk   |

| As Presented: X       |  |
|-----------------------|--|
| As Amended:           | Howell Township Clerk<br>Jean Graham       |
| As Corrected:         | Mike Coddington Howell Township Supervisor |
| Dated: August 8, 2022 | Teresa Murrish, Recording Secretary        |



# 9A

## Howell Township Wastewater Treatment Plant Meeting Meeting: July 20, 2022 10am

Attending: Greg Tatara, James Aulette, Jonathan Hohenstein

Please see the attached report for full details.

Section 1.1 is a summary of the operations and the items that were discovered once MHOG crew was able to get into the plant and start working. Photos are of:

- 1. The north clarifier after they got it cleaned out and removed the rodents. The representative for the clarifiers will be stopping out to perform an in depth review of the north clarifier.
- 2. The sand filter influent channel was filled with sand. James is unsure of what event that could have taken place that would have caused sand to end up in the influent channel. Also discovered that the air compressor for the sand filters was so full of water that the pumps had to run at full speed at all times to operate. Both motors on the compressor are no longer operational. A new compressor is needed. For the time being MHOG brought a compressor from the GO plant.
- 3. Along with most areas of the plant the clarifier scum pit was in desperate need of cleaning.
- 4. The junction chamber was much worse than anticipated. You will notice the cement looks very rough. After getting it drained and cleaned out Greg and Jim noticed that we have lost about 4 inches of concrete in certain areas. While that sounds bad, it could have been catastrophic to the plant because this is a two tiered structure. The untreated sewage comes into the top of the chamber where ferric chloride gets added before making its way to the clarifiers. Once the water has been through the clarifier it enters the bottom chamber before making its way to the sand filters. If the concrete had failed between these two chambers there would have been no way to separate the sewage.
- 5. The sand filter tent had to be cleaned out because there were all sorts of plants growing in it and junk was stored in there. The crew got some gravel to put around the outside and inside to help keep pests out of the structure. The water spraying everywhere in the next photo is from the air compressor that was filled with water, not allowing it to blow in the sand to help wash it.

Section 1.3 is still waiting on lab data from Inframark. Ideally, all of the gray boxes in section 1.4 would be filled in with data.

Section 1.5 are plant repair projects. The Board has already approved the North RAS Pump to be fixed. Recommend approval of the quote from Lakeside to fix the fine screen not to exceed \$23,000.

Section 1.6 is our current MDPES permit and the forthcoming MDPES permit with the change to weekly phosphorus testing due to repeated violations. This will be more costly and time consuming.

Section 2.1 is an overview of the pump stations and corrective items performed by the crew. Most of these items were minor fixes with big repercussions and were long overdue.

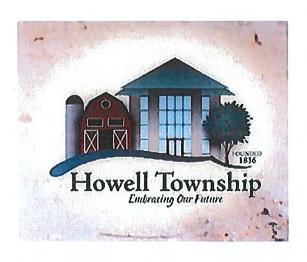
Section 2.3 MHOG has started implementing the manhole inspections as were requested of Inframark years ago.

Section 3.1 is the capital improvement plan summary. Only one of these items has been out for quotes. The following quote is for the Burkhart Ridge pump station. Both of these items are high priority. Recommend approval of quote from ART plus bypass costs for lining of the influent channel. Recommend approval of the quotes for the Burkhart Ridge pump station rehabilitation work as presented.

Recommend approval of all quotes in the waste water report as presented.

Respectfully submitted, Jonathan Hohenstein

# Howell Township Monthly Wastewater Operations Report



### Howell Township Wastewater System Operations Report July 2022

#### **Table of Contents**

#### Section 1 - Plant Operation

Attachment 1.1 – Written Operations Summary & Pictures

Attachment 1.2 - Plant Performance Summary

Attachment 1.3 – EGLE Discharge Monitoring Report

Attachment 1.4 - Process Data

Attachment 1.5 – Repair Project Listing and Cost Summary

Attachment 1.6. 1 - Associated Quotations for Fine Screen and RAS Pump

Attachment 1.6 - New NPDES Permit Comparison of Values

#### Section 2 - Collection System Operation

- 2.1 Written Maintenance Summary & Pictures
- 2.2 Weekly Inspection Data
- 2.3 Maintenance Initiative Summary (Air Releases, Manhole Inspections, Valve Exercising, Sewer Cleaning)
- 2.4 MISS DIG Summary
- 2.5 Pump Station Project Listing and Repair Summary

Attachment 2.6.2 - Associated Quotations

#### Section 3 - Capital Improvements

Attachment 3.1 - Plant Capital Improvements

Attachment 3.2 - Collection System Capital Improvements

Section 1
Plant Operation

#### **Howell Township Operations**

#### **Summary**

June 27th was the first day we started recording data and running labs. Attached you will find all of the information for those dates. As for the rest of the information, Inframark sent me some of the lab data on July 19th. I am still missing all data that was sent to Brighton Analytical. I have been in communication with Brent Bodnar from EGLE since day 1 and he is well a where of what is going on. Brent met me at the plant on June 29th so he could see the mess Inframark left behind.

We seem to have the plant process under control now. We did walk into some violations for the month of June but we are hopeful we will not have any violations for the month of July. July's Operation Report will have much more detail.

#### **Howell Township WWTP Summary**

|  | 7 |   |    |   |
|--|---|---|----|---|
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|  |   |   |    |   |

#### **EQ Tank**

No Problems at this Time

#### **Influent Sampler**

Repaired Ground Around Shed

Still Need to Insulate and Repair Shed

#### **Headworks**

Repaired Leaking Water Valve

Purchased Oil Drum (6 month lead time)

Removed Bird Nests and Fecal Matter

Received 2 yard Dumpster from Republic

Qoute from DuBois Cooper for fine Screen

**Qoute from ART to Line Influent Channel** 

#### **FeCI2 Chemical Room**

Cleaned UP Spill

Replaced Ferric Pump

#### **Biolac Basin**

Adjusted Mixed Liqour

Need to Fix Broken Cables and Adjust the Sway of Diffuser

#### **Junction Chamber**

**Cleaned Out Junction Chamber** 

Ferric Line Broke and Eating Away Concrete Floor

**Fixed Ferric Line** 

#### **RAS Building and Clarifier**

Repair RAS Pump (\$7190)

Cleaned North Clarifier and had Sales Rep Onsite

Cleaned Sludge Line

#### **Sand Filters**

Removed Old Parts and Vegetation Cleaned out Sand Filter Influent Channel Put another Filter Online

Compressor Broke 7/18/22

#### **Post Aeration**

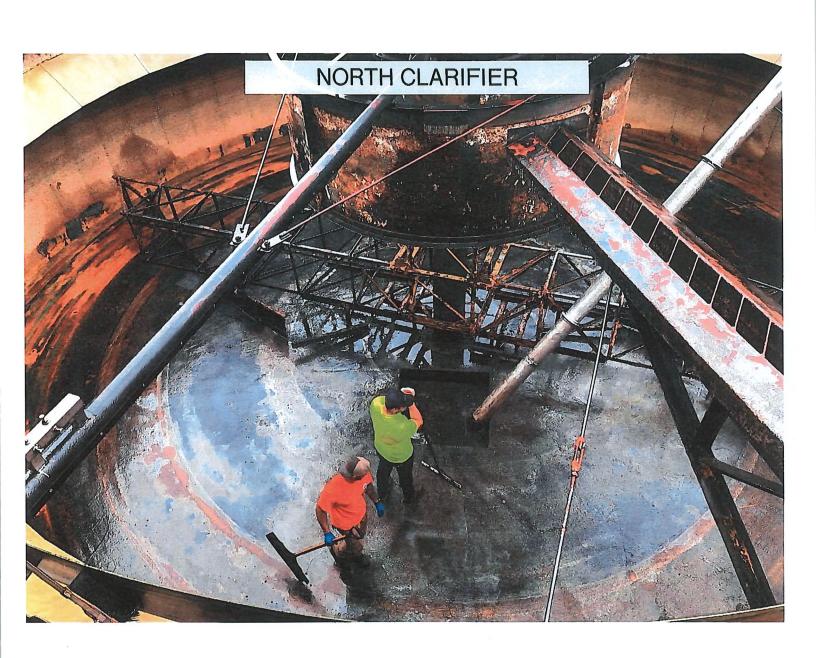
Appears Ok

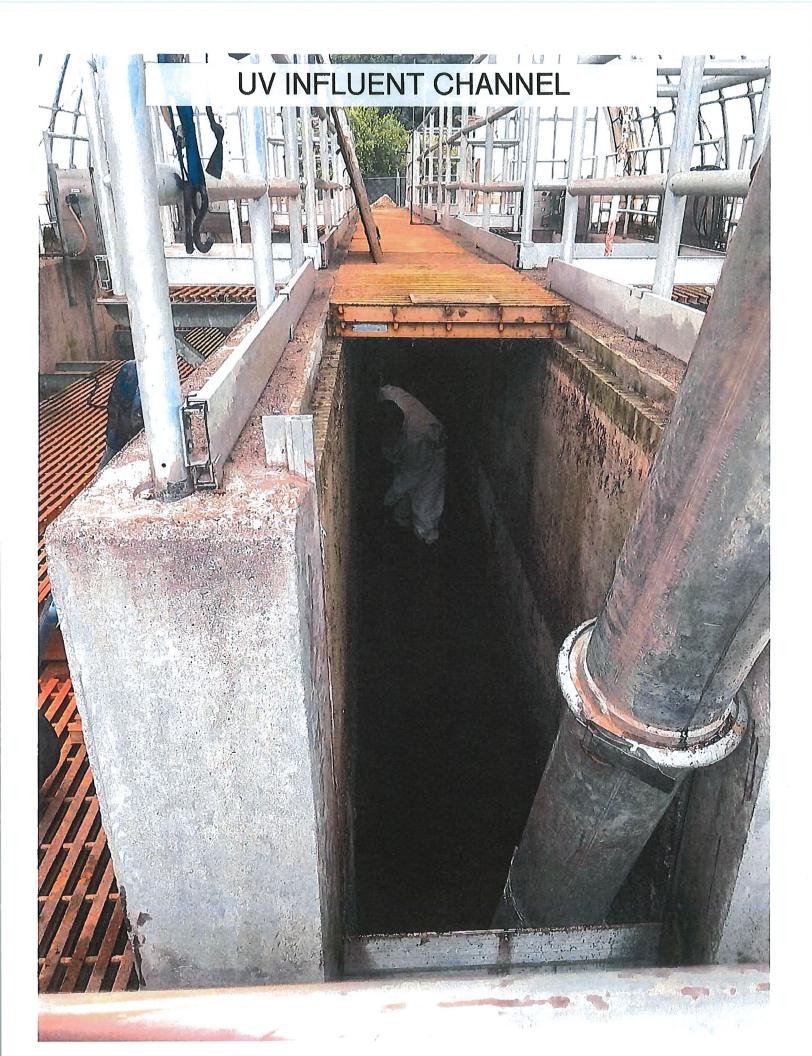
#### **UV System**

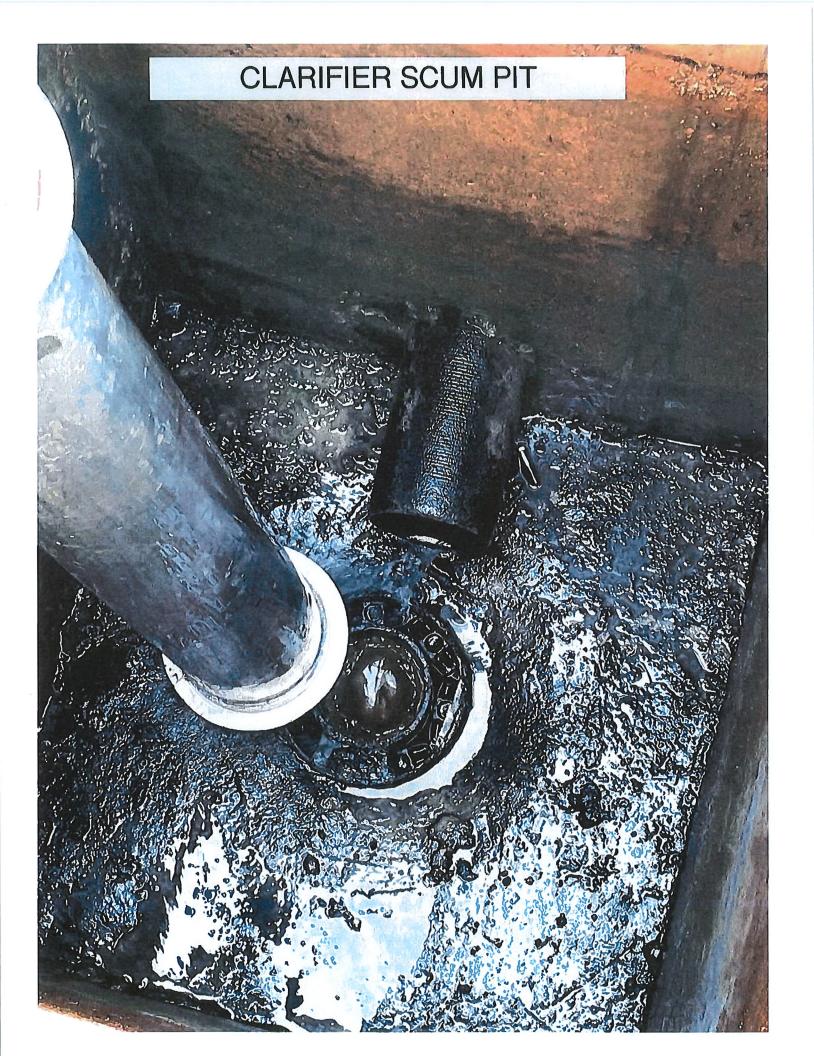
Installed 15 New Bulbs Cleaned Out UV Channel Set Up Meeting With Kennedy For New System

#### **Admin Building**

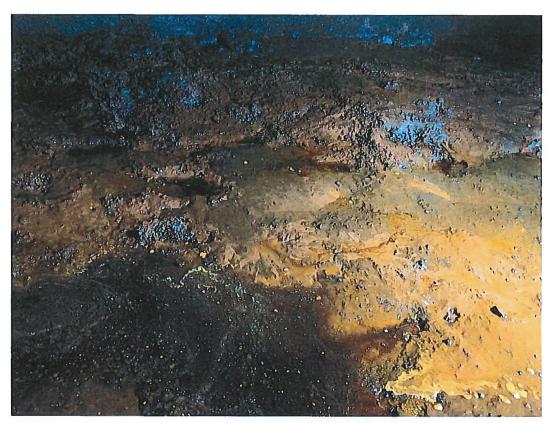
Removed 30 Yards of Garbage Made Lab Functional Again Cleaned/Painted Office Changed Out Lights



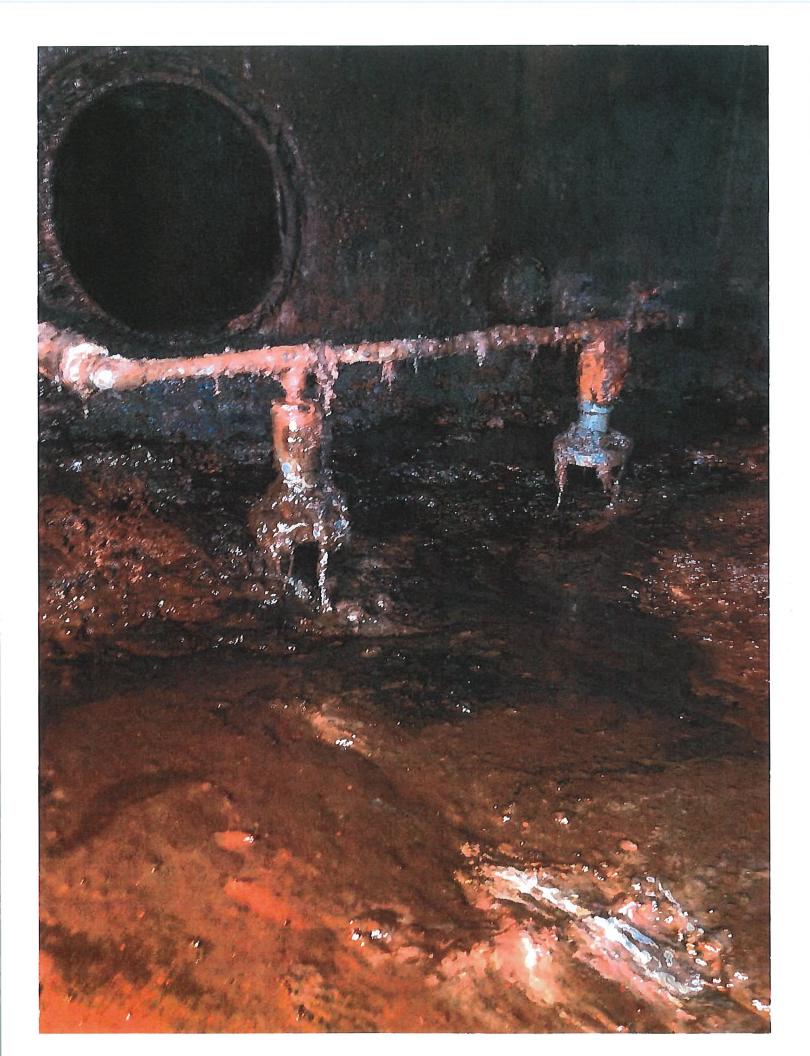




July 2022 Operations Pictures





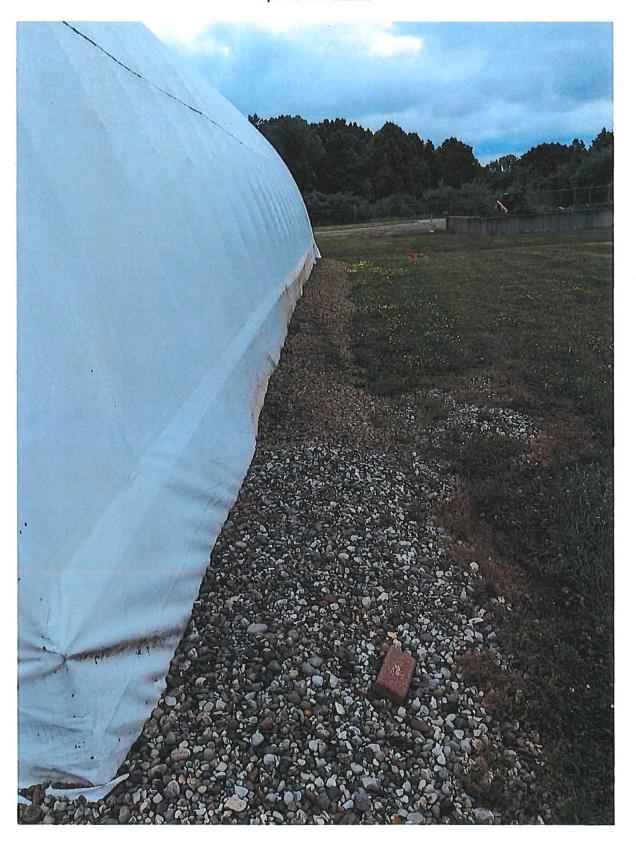


July 2022 Operations Pictures





July 2022 Operations Pictures



July 2022 Operations Pictures



#### Howell Township Lab Data

|          | FLOW DATA |          | PRECIP | TEMP |                           | DIS C |      | DAILY HA | CH COMP |         |           | HT - pH    |       |           | HT E Cox      | HT -             | CBOD    | HT - AI | MONIA   | HT-   | PHOS     |         | -TSS   |        |
|----------|-----------|----------|--------|------|---------------------------|-------|------|----------|---------|---------|-----------|------------|-------|-----------|---------------|------------------|---------|---------|---------|-------|----------|---------|--------|--------|
| INF MGD  |           | VIAS     | INCHES |      |                           |       |      | NH3-N    | P(M     | \$19-pt | GAL CHECK | (FF Tempor | INFpH | ny feng C | (A)(25e)((01) | EFF € BCC (+1 Cs | 23 CSC0 |         | OF ALCO |       | md press | (FF ISC | 29 155 | 30 MIN |
| 0.261000 | 0.215000  | 0.003052 | 00.0   | 65   | 18                        |       |      | 6.80     | 8.88    |         |           |            |       |           |               | 10               | 253     | 0.0500  | 39.70   |       |          |         |        |        |
| 0.251000 | 0.215000  | 0.003052 | 60.0   | 64   |                           | 8.29  | 7.50 | 0.53     | E 50    | 7.413   | 7.430     | 20.8       | 7.060 | 20 1      | 500           | 1.1              | 203     | 0.0480  | 38.60   |       |          |         |        | 270    |
| 0.252500 | 0.235000  | 0.910681 | 94.9   | 70   |                           | 8.00  | 7.29 | 9.04     | E.40    | 7 3 30  | 7.350     | 20.8       | 7.060 | 21.3      | 2000          | 1.0              | 213     | 0.0390  | 48.00   |       |          |         |        | 270    |
| 0.250000 | 0.000000  | 0.000000 | 00.0   | 62   |                           | 7.20  | 6.79 | 8.05     | 6.14    | 7.230   | 7.260     | 20.6       | 6.970 | 72.6      | 570           | 1.7              | 377     | 0.5770  | 48.70   |       |          |         |        | 270    |
| 0.290000 | 0.000000  | 0.000000 | 0.00   | t)   | 12                        | 6.83  | 8.00 | 83.0     | 1.30    | 7350    | 7.350     | 21.5       | 7.140 | 25.2      | 3200          | 1.6              | 273     | 0 5120  | 41.60   | 1.963 | 10.70    |         |        | 250    |
| 9.129700 | 0.148000  | 0.010631 | 00.0   | 75   |                           | 8.60  | 7 30 | 0.07     | 1.74    | 7 320   | 7.330     | 21.5       | 7.040 | 24.3      | 490           |                  |         |         |         |       |          |         |        | 250    |
| 0.231900 | 0.208800  | 0.004578 | 0.00   | 76   | M                         | 9.00  | 8.20 | 0.00     | 3.92    | 7240    | 7.260     | 21.0       | 7.610 | 22.1      |               |                  |         |         |         |       |          |         |        | 250    |
| 6.222800 | 0.195000  | 0.004578 | 0.00   | 14   | -                         | 8,94  | 7.60 | 0.00     | 1.35    | 7.200   | 7.340     | 21.1       | 6.830 | 28.1      |               | 1.0              | 243     | 0.0350  | 42.50   |       |          |         |        | 250    |
| 9.227400 | 0.216200  | 0.000000 | 0.00   | 66   | THE RESERVE               | 960   | 8.20 | 00.0     | 1.30    | 7.130   | 7 150     | 21.9       | 6.990 | 20.0      | 57            | 1.1              | 227     | 0.0310  | 41.90   |       |          |         |        | 250    |
| 0.264000 | 0.242900  | 0.004578 | 0.40   | 62   |                           | 8.70  | 8.20 | 72.0     | 1.74    | 6.790   | 6.640     | 22.1       | 7.090 | 22.0      | 43            | 1.4              | 259     | 0.0590  | 43.90   |       |          |         |        | 0      |
| 0.247200 | 0.225200  | 0.004578 | 6.25   | 64   | The second second         | 8 90  | 8.10 | 0.64     | 1.35    | 6240    | 6.840     | 22.2       | 7.040 | 21.8      | 7             | 1.0              | 226     | 0.0310  | 46.40   | 0.871 | 7.45     |         |        | 0      |
| 0.151100 | 0.172000  | 0.004578 | 0.00   |      | No. of London             | 9.00  | 8.60 | 0.03     | 1.34    | 0.520   | 6.940     | 22.0       | 7.070 | 21.4      | 32            | 1.0              | 242     | 0.0330  | 41.60   |       |          |         |        | 0      |
| 0.251800 | 0.226000  | 0.007630 | 04.0   | 80   | The second second         | 9.40  | 8.10 | 0.84     | 1.30    | 6.700   | 6.730     | 22.8       | 7.010 | 25.0      | 10            |                  |         |         |         |       |          |         |        | 250    |
| 0.247200 | 0.227200  | 0.000000 | 0.16   | 73   | 4                         | 8.90  | 8.50 | 0.01     | 1.23    | 6.720   | 8.740     | 216        | 6.090 | 24.1      |               |                  |         |         |         |       |          |         |        | 0      |
| 0.253300 | 0 221200  | 0.007630 | 0.00   | 80   |                           | 821   | 8.84 | 0.00     | 1.09    | 6.770   | 6.750     | 21.4       | 7.010 | 20.6      |               | 0.8              | 334     | 0.0230  | 42 00   |       |          |         |        | 0      |
| 0.262500 | 0 24 3200 | 0.004578 | 90,00  | 74   | 24                        | 8.10  | 8.90 | 90.0     | 1.00    | 6.630   | 0.850     | 21.6       | 7.049 | 23.4      | 4             | 1.0              | 255     | 0.0300  | 40.60   |       |          |         |        | 250    |
| 0.262500 | 0 23 9000 | 0.004578 | 0.30   | 70   | The second second         | 6.10  | 8.50 | 0.00     | 0.84    | 8.749   | 8.750     | 21.8       | 7.000 | 24.6      | 4             | 0.7              | 217     | 0.0270  | 04.80   | 0.343 | 7.54     |         |        | 0      |
| 0.257000 | 0.254700  | 0.007630 | 00.0   | 78   | the state of the state of | 8.70  | 8.20 | 00.0     | 8.99    | 6.620   | 6.510     | 21.5       | 7.010 | 20.9      |               |                  |         | 0.0200  | 42.20   |       |          |         |        | 250    |
| 0.252000 | 0.250700  | 0.007630 | 6.45   | 76   | 100                       | 9.10  | 8.80 | 8.00     | 1.04    | 6.743   | 6.750     | 212        | 7.000 | 22.3      | 13            |                  |         |         |         |       |          |         |        | 0      |
| 0.231900 | 0.258700  | 0.007830 | 0.00   | 72   |                           | 8.40  | 8.60 | 6.00     | 8.78    | 6.733   | 6.750     | 21.5       | 7.070 | 24.0      |               |                  |         |         |         |       |          |         |        | 240    |
| 0.241700 | 0.224500  | 0.010681 | 0.45   | 12   | 11                        | 9.00  | 8.80 | 00.0     | 1.43    | 6.780   | 6.790     | 21.4       | 6.910 | 25.7      |               |                  |         |         |         |       |          |         |        | 0      |
| 0.252500 | 0 224300  | 0.010681 | 0.00   | 79   | THE RESERVE               | 9.20  | 6.00 | 0.00     | 1.96    | 6.700   | 6.710     | 21.7       | 6.710 | 22.5      |               |                  |         |         |         |       |          |         |        | 0      |
|          |           |          | 0.00   | 72   | 12                        | 9.20  | 6.40 |          |         | 6,600   | 6.620     | 22.1       | 7.040 | 22.6      |               |                  |         |         |         |       |          |         |        | 22     |

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY:

PERMITTEE NAME:

Howell Township WWTP

MAILING ADDRESS:

3525 Byron Road

Howell, MI 48855 Howell Township WWTP

FACILITY: LOCATION:

1222 Packard Drive

MI0055727

DAILY DISCHARGE MONITORING REPORT

|     | Viotlatio        | ins                    |
|-----|------------------|------------------------|
| NO. | Parameter        | Limit                  |
| 2   | Ammoina          | 2.0 mg/L               |
| 2   | Fecal            | 400                    |
| 3   | pH .             | Report Daily           |
| 14  | Dissolved Oxygen | Report Daily           |
| 1   | Total Phosphorus | 0.50 mg/L Monthly AVG. |

| PARAMETER                            | FLOW               |          | SUSPENI      | DED SOLIDS      |   |               | CBOD <sub>5</sub> |           |            | AMMONU          |           |      | OTAL<br>SPHORUS |      |         | TOTAL N | MERCURY |      |      | FECAL C  | OLIFORM   | pH MIN | рн мах          | D.O.      |
|--------------------------------------|--------------------|----------|--------------|-----------------|---|---------------|-------------------|-----------|------------|-----------------|-----------|------|-----------------|------|---------|---------|---------|------|------|----------|-----------|--------|-----------------|-----------|
|                                      |                    | 7 D      | AY AVG       |                 |   | <1.0          | 7 DAY             | daily max | <0.01      | 7 DAY           | daily max |      | <0.1            |      | <0.     | 5       |         | <0   | .2   | 7 DAY    | 0=1       | 6.5    | 9.0             | Daily MIN |
| Dates                                | MGD                | mg/l     | lbs/da       | y mg/l          | lbs/day   | mg/l          |                   | lbs/day   | mg/l       | lbs/avg         | lbs/day   | mg/I | lbs/day         | ng/L | lbs/day | ng/L    | ng/L    | ng/L | ng/L | GEO MEAN | daily MAX | SU     | SU              | mg/l      |
| Wednesday, June 1, 2022              | 0.3400             | 671      | 103,00       | 5.0             | 14  | 2.0           | ,                 | 5.7       | 0.08       |                 | 0.2       |      |                 |      |         |         |         |      |      |          | 58        |        |                 |           |
|                                      | 0.3700             |          |              | 5.0             | 15  | 2.0           |                   | 6.2       | 0.04       |                 | 0.1       |      |                 |      |         |         |         |      |      |          | 140       | 6.85   | 6.85            |           |
|                                      |                    |          |              | 5.0             | 13  | 2.0           |                   | 5.2       | 0.04       |                 | 0.1       |      |                 |      |         |         |         |      |      |          | 75        | 6.88   | 6.88            |           |
| Saturday, June 4, 2022               |                    |          |              | 3.0             |   |               |                   |           |            |                 |           |      |                 |      |         |         |         |      |      |          |           | 6.93   | 6.93            | 15.9      |
|                                      |                    |          |              |                 |   |               |                   |           |            |                 | 1         |      |                 |      |         |         |         |      |      |          |           | 7.00   | 7.00            | 14.0      |
| Monday, June 6, 2022                 |                    |          |              | 6.0             | 14  | 4.4           |                   | 10.3      | 2.80       |                 | 6.5       | 0.16 | 0.4             |      |         |         |         |      |      |          | 2400      | 6.88   | 6.88            | 16.8      |
| Tuesday, June 7, 2022                |                    | 3.8      | 10           | 5.5             | 15  | 3.6           | 5.3               | 9.6       | 6.10       | 3.3             | 16.3      |      |                 |      |         |         |         |      |      | 311      | 2000      | 6.92   | 6.92            | 16.6      |
| Wednesday, June 8, 2022              |                    | 3.8      | 10           | 5.0             | 12  | 2.0           | 5.2               | 4.8       | 0.36       | 3.4             | 0.9       |      |                 |      |         |         |         |      |      | 295      | 44        | 6.91   | 6.91            | 16.2      |
| Thursday, June 9, 2022               | 0.2600             | 3.8      | 9            | 5.0             | 11  | 2.0           | 4.9               | 4.3       | 0.17       | 3.5             | 0.4       |      |                 |      |         |         |         |      |      | 255      | 68        | 6.73   | 6.73            | 16.5      |
| Friday, June 10, 2022                | 0.3000             | 3.8      | 9            | 5.0             | 13  | 2.0           | 4.9               | 5.0       | 0.02       | 3.4             | 0.1       |      |                 |      |         |         |         |      |      | 241      | 57        | 6.84   | 6.84            | 16.1      |
|                                      | 0.2900             | 3.8      | 9            | 3.0             |   | 2.0           | 4.9               | 0.0       | 0.02       | 3.4             |           |      |                 |      |         |         |         |      |      | 196      | 69        | 7.03   | 7.03            | 15.8      |
| Sunday, June 12, 2022                | 0.2300             | 3.8      | 9            |                 |   |               | 4.9               |           |            | 3.4             |           |      |                 |      |         |         |         |      |      | 196      |           | 7.13   | 7.13            | 15.5      |
| Monday, June 13, 2022                | 0.2900             | 3.6      | 9            | 5.0             | 12  | 2.0           | 4.1               | 4.8       | 0.05       | 2.5             | 0.1       | 0.42 | 1.0             |      |         |         |         |      |      | 122      | 140       |        |                 |           |
| Tuesday, June 14, 2022               | 0.2900             | 3.6      | 9            | 5.0             | 12  | 2.0           | 3.4               | 4.8       | 0.00       | 0.2             |           |      |                 |      |         |         |         |      |      | 74       | 102       | 7.15   | 7.15            |           |
| Wednesday, June 15, 2022             | 0.2900             | 3.6      | 9            | 5.0             | 12  | 2.0           | 3.4               | 4.8       | 0.04       | 0.1             | 0.1       |      |                 |      |         |         |         |      |      | 75       | 48        | 6.93   | 6.93            |           |
| Thursday, June 16, 2022              | 0.2700             | 3.6      | 9            | 5.0             | 11  | 2.0           | 3.4               | 4.5       | 0.03       | 0.0             | 0.1       |      |                 |      |         |         |         |      |      | 101      | 390       | 7.02   | 7.02            |           |
| Friday, June 17, 2022                |                    | 3.6      | 8            | 5.0             | 12  | 2.0           | 3.4               | 4.7       | 0.03       | 0.1             | 0.1       |      |                 |      |         |         |         |      |      | 139      | 390       | 7.28   | 7.28            |           |
| Saturday, June 18, 2022              |                    | 3.6      | 8            | -               |   |               | 3.4               |           |            | 0.1             |           |      |                 |      |         |         |         |      |      | 160      |           | 6.98   | 6.98            |           |
| Sunday, June 19, 2022                |                    | 3.6      | 8            |                 |   |               | 3.4               |           |            | 0.1             |           |      |                 |      |         |         |         |      |      | 160      |           | 7.16   | 7.16            |           |
| Monday, June 20, 2022                | 0.2600             | 3.6      | 8            | 5.0             | 11  | 2.0           | 3.3               | 4.3       | 0.01       | 0.0             | 0.0       | 0.38 | 0.8             |      |         |         |         |      |      | 140      | 73        | 7.09   | 7.09            |           |
| Tuesday, June 21, 2022               |                    | 3.6      | 8            | 5.0             | 13  | 2.0           | 3.4               | 5.2       | 0.02       | 0.0             | 0.1       |      |                 |      |         |         |         |      |      | 107      | 26        | 7.15   | 7.15            |           |
| Wednesday, June 22, 2022             | 0.2300             | 3.6      | 8            | 5.0             | 10  | 2.0           | 3.2               | 3.8       | 0.67       | 0.2             | 1.3       |      |                 |      |         |         |         |      |      | 146      | 230       | 7.24   | 7.24            | 16.4      |
| Thursday, June 23, 2022              |                    | 3.6      | 8            | 5.0             | 10  | 2.0           | 3.1               | 4.0       | 1.20       | 0.5             | 2.4       |      |                 |      |         |         |         |      |      | 137      | 280       | 7.35   | 7.35            | 16.2      |
| Friday, June 24, 2022                |                    | 2.9      | 6            |                 |   |               | 2.5               |           |            | 0.5             |           |      |                 |      |         |         |         |      |      | 110      | 130       | 7.30   | 7.30            | 15.6      |
| Saturday, June 25, 2022              |                    | 2.9      | 6            |                 |   |               | 2.5               |           |            | 0.5             |           |      |                 |      |         |         |         |      |      | 110      |           | 7.14   | 7.14            |           |
| Sunday, June 26, 2022                |                    | 3.9      | 8            | 7.2             | 13  | 1.0           | 2.7               | 1.8       | 0.05       | 0.6             | 0.1       |      |                 |      |         |         |         |      |      | 110      |           |        |                 |           |
| Monday, June 27, 2022                | 0.2150             | 3.8      | 8            | 4.6             | 8   | 1.1           | 2.4               | 2.0       | 0.05       | 0.6             | 0.1       |      |                 |      |         |         |         |      |      | 161      | 500       | 7.41   | 7.41            | 7.8       |
| Tuesday, June 28, 2022               |                    | 3.8      | 7            | 5.0             | 10  | 1.0           | 1.9               | 2.0       | 0.04       | 0.6             | 0.1       |      |                 |      |         |         |         |      |      | 384      | 2000      | 7.33   | 7.33            | 7.2       |
| Wednesday, June 29, 2022             | 0.2409             | 3.8      | 7            | 4.6             | 9   | 1.7           | 1.9               | 3.4       | 0.68       | 0.6             | 1.4       |      |                 |      |         |         |         |      |      | 461      | 570       | 7.23   | 7.23            | 6.7       |
| Thursday, June 30, 2022              |                    | 3.7      | 7            | 4.2             | 9   | 1.6           | 1.8               | 3.4       | 0.55       | 0.4             | 1.2       | 1.96 | 4.2             |      |         |         |         |      |      | 750      | 3200      | 7.35   | 7.35            | 8.0       |
| Friday, July 1, 2022                 |                    |          |              |                 |   |               |                   |           |            |                 |           |      |                 |      |         |         |         |      |      |          |           |        |                 |           |
| PARAMETER                            | FLOW               |          | SUSPEN       | DED SOLID       | s   |               | CBODs             |           |            | IMONIA<br>ROGEN | AVG       | 0.73 | SPHORUS         |      |         | TOTAL   | MERCURY |      |      | FECAL O  | OLIFORM   | pH MIN | pH MAX          | D,O.      |
| Name/Title of Principal Executive Of | fficer Or Authoris | ed Agert | with the int | ormation sumbin | e that I have person<br>ed herein; and bas<br>onsible for obtaining | ed on my inqu | iry of those      | Deputy    | PLATURE OF | PRINCIPAL EXEC  |           |      |                 |      |         |         |         |      |      | FROM     |           |        | /2022<br>1/2022 |           |

When completed mail this report to: PCS-Data Entry, MDEQ-V/B, P.O. Box 30273, Lansing U.I., 48009-7773

#### Howell Township Daily Checks

| Howell WV   | MTP                                 |   | WEA   | THER   | 2000   | few.   | 100                                     | f fire  | pr   | 0.0              | 815  | ermar.            |  |                   |                    | Core                    |   | CHEMICA                                 |   |                                      | ********                             | HSTING                |  | GINERATOR  |  | UTILITE                                 | S                              | Clar   | fier   |   | She was                                 | 0-1  |
|---|-------------------------------------|---|---|--|--|--|---|---|--|------------------|--|-------------------|--|-------------------|--------------------|-------------------------|---|---|---|--------------------------------------|--------------------------------------|-----------------------|--|--|--|---|--------------------------------|--|--|---|---|--|
|   |                                     |   |   |  | 2500   |  | 102-23                                  |   |  |                  | -  |                   |  |                   | 100                |                         | 100000  | CITE IIII                               |   | 100                                  |                                      |                       |  | antibotion.  | 646  | Proper                                  | -                              |  | ***  |   |   |  |
| BATE  | 34 HR TIME                          | beide                                   | 2100  |  | MEN  | cjus   | Ef lynd                                 | MGD   | rel  | Temp             | W.   | Bony              |  |                   | Making to          | 1 0                     | BALLMONS  | 1,70                                    | Forte Uned                              | 601                                  |                                      |                       |  | Rest   | METER  | 0015100                                 | 1100                           | Cheferi  | Coster I   |   |   |  |
| Strender, Jone 2, 2012                              | University and                      | 100000000000000000000000000000000000000 | Description of  |  | 10000  | 100000   |   |   | 100000   | 100 0000000      | the state of   | Section 2         | Bull-track   |                   |                    |                         |   |   |   | -                                    | STATE OF THE PERSON NAMED IN         |                       | Maria Company  | NAME OF TAXABLE PARTY.   | and the latest   |   | -                              |  |  | THE OWNER WHEN                          | <b>CARROLL</b>                          |  |
| Status, June 1, 2022                                |                                     |   | A STATE OF THE PARTY.   | 4000   | Sec.   | No. of Concession, Name of Street, or other Persons, Name of Street, or ot | Part (1975)                             | F 885,550,400   | DOMEST A   |                  | 1000000  | September 1       |  | 100000000         | September 1        | Marie Paris             |   | THE PERSON NAMED IN                     | A COLUMN TWO IS NOT THE OWNER.          | Name and Address of the Owner, where | Name and Address of the Owner, where |                       | 100000000000000000000000000000000000000  | THE RESIDENCE AND RESIDENCE  | Section 2  | Deliver with                            | The second                     | Control of the last  | Authority district   | No. of Concession,                      | The same of                             | C RESIDENCE OF THE PARTY OF THE |
| Selection June 6, 2022                              | 100000                              | -                                       |   | -  |  | A CONTRACTOR   | 100000000000000000000000000000000000000 | A LONG THE REAL PROPERTY.   | PORT 15  | 100000           | 200,000,000  | 1000              | Section 2  | 10000000          |                    | STATE OF THE PERSON.    |   | that plante                             | Telephone Company                       | MERCHANDS!                           | Printed Sprint                       | Control Control       |  | PROPERTY AND PERSONS NAMED IN  | 100000000  | (Separate)                              | 0.0745.000                     |  | The Street of th |   | ALIGNATURE TO                           | THE PERSON   |
| Surden hora 5 2022                                  |                                     |   | 1700000   |  | Carrie a   | 100000   |   | 00000   | Barrier Co.  | Administration 1 | 100000   |                   |  | September 1       | An princip         | The same of             | State of the last   | FOR STREET, SQUARE,                     |   |                                      | Designation of                       | Industrial            |  | AND DESCRIPTION OF THE PERSON NAMED IN   | productions.   | AND DESIGNATION OF THE PERSON NAMED IN  | The second                     | Description.   | DESCRIPTION OF THE PERSON NAMED IN   | 100000000000000000000000000000000000000 | DESCRIPTION.                            | No. of Concession, Name of Street, or other Designation, or other  |
| Mandry, June 8, 2017                                |                                     | 2000                                    |   | 100000000000000000000000000000000000000  | 1000   |  | and the same of                         |   | A STATE OF   | -                | STATES.  | 1000              | 100000   | The second second | No. of Concession, | STATE OF TAXABLE PARTY. | No. of Concession, Name of Street, or other Designation, Name of Street, Name | Partie Land                             | ARROW ALCOHOL                           | BOOK SET                             |                                      |                       | and a soul   | THE RESERVE OF THE PARTY OF THE | Section 201  |   | STATE STATE STATE AND ADDRESS. |  | The winds in the last  | CONTRACTOR OF THE PARTY.                | THE RESERVE                             |  |
| Transfer, June 2, 2022                              | -                                   | -                                       |   |  |  | The second   | 100000                                  |   | 1000   |                  |  | District Contract | 100,000,013  | STATE OF          | Page Special       | September 19            | of the property.  | September 1                             | STATE OF THE OWNER, OR WHEN             | The second                           | Service Transfer                     |                       | The Part of the Pa | THE RESERVE OF THE PARTY OF THE | THE REAL PROPERTY.   | Name and Post                           |                                |  | Production of the last   | PERSONAL PROPERTY.                      | Section 2                               | STATE OF THE PARTY |
| Wednesday, bank S, 2022                             |                                     |   | -   | -  | _  |  | Maria Company                           |   | -  | 1000             | -  | 100000            | -  | 100000            | The State of       |                         | Street Section  |   |   | Publisher with                       |                                      | STATE OF THE PARTY.   | Company of the last  | HEROTOPIC PRODUCTS   | STATE OF THE   |   | 200                            | Total Labor  |  | State State                             |   | AND DESCRIPTION  |
| Thursday, June 9, 2022                              |                                     |   | -   |  |  |  | -                                       | _   |  | -                |  |                   | -  | _                 |                    | -                       |   |   | -                                       | 10000                                | FREE PON                             | STATE OF THE PARTY OF |  | Department of the last   | 17-18-18-18-18-18-18-18-18-18-18-18-18-18-   | 12000                                   | Grant Cont.                    |  | The Part of the Pa | March Colonia                           | A STATE OF THE PARTY OF                 | The state of   |
| Pridry, hose 10, 2022                               |                                     |   | 100000000000000000000000000000000000000   |  |  |  |   | -   |  | -                |  |                   |  | -                 |                    | -                       |   |   | -                                       |                                      | -                                    | _                     | D1000000000000000000000000000000000000   | The second second  | _  | Section 1                               | 1000000                        | All of the last to   |  | Section 1                               | P. Committee                            | N. December 1  |
| Securdor, June 11, 2022                             | THE RESERVE OF THE PERSON NAMED IN  |   |   |  |  | 1  |   |   |  |                  |  |                   | _  |                   | -                  | 1                       |   |   | _                                       | -                                    |                                      | -                     | Same Said  |  | 10000  | _                                       |                                | The State of |  | -                                       | 100000000000000000000000000000000000000 | A STATE OF THE PARTY OF  |
| Sunday, June 12, 2012                               | 1000000000                          | 100000                                  |   | Section 2  |  |  |   | 100000  |  |                  |  |                   |  |                   |                    | -                       | -   |   | -                                       | -                                    | -                                    | -                     | Section 1  | THE RESERVE  | 1000   | 1                                       | Street Street,                 | Commence of the last   |  | The second second                       | -                                       | 1  |
| Mardry, Inno 13, 2022                               | 1000000                             |   | 100000  | No. of Concession,   |  |  |   | 1   |  |                  |  |                   |  |                   |                    | -                       | -   |   |   | -                                    |                                      |                       | -  |  | 100000   | Total Control                           |                                | -  | -  | 1                                       | -                                       |  |
| Tomebra, June 14, 2022                              | Contract of                         | 100                                     | A 100 TO |  |  | -  |   | 100000  | 100000000000000000000000000000000000000  |                  |  |                   | 1  |                   |                    |                         | -   |   | -                                       | -                                    |                                      |                       | _  |  |  | 100000000000000000000000000000000000000 |                                |  | STATE OF THE PERSON NAMED IN   | -                                       |   | 1000   |
| Wednesday, June 15, 2022                            | ECTION OF S                         | 1                                       | partie of the last  | NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN COLUMN TWO IN COLUMN | No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, | 1000   | 1000                                    | 100000000000000000000000000000000000000   |  | -                |  |                   | -  |                   |                    | -                       |   | -                                       | -                                       | -                                    |                                      |                       | _  |  | -  | -                                       | 10000                          | -  | -  | 1000                                    | -                                       |  |
| Thursday, hone 14, 2022                             | -                                   | 10000000                                | 100012000   | District of the  | 200000000  |  | 100 Carrier                             | Name of Street  | 100000000000000000000000000000000000000  |                  |  |                   |  | 100000            | -                  |                         |   |   |   |                                      |                                      |                       |  |  | -  |   |                                | -  | -  | 100                                     | The Real Property lies                  | -  |
| Stdry, Jane 17, 3032                                | PROPERTY.                           |   | STATE OF THE PARTY OF   | 1  | Service Services   | No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, | The same of                             | and the latest terminal to the  | The Contract of the Contract o |                  | -  |                   |  |                   |                    |                         |   |   |   | -                                    | The second second                    |                       |  |  |  |   |                                |  |  |   |   | -  |
| Searchy, June 18, 2022                              | 12 of the late.                     |   | 100.003-00000   | THE PARTY NAMED IN   | The state of the s | Part Contract  | -                                       |   | 1000   |                  | 100000   |                   | 2000000  |                   |                    |                         |   | 100000000000000000000000000000000000000 |   | -                                    |                                      |                       |  | The second second  |  | -                                       | _                              |  |  |   |   | -  |
| Sunday, lune 19, 2012                               | Design Street                       |   | Bhopping.   | ALC: NO  | 400000   | 100000000000000000000000000000000000000  | Name and Address of the Owner, where    | d contraction   | THE RESERVE  | SHOW AND         | 10000  | Target and        | Normal Control   | 10000000          | 13000000000        | -                       |   |   | 100000000000000000000000000000000000000 |                                      |                                      | -                     |  |  |  | 100000                                  |                                |  |  |   | 1000                                    |  |
| Mondry, have 20, 2022                               | THE RESERVE AND ADDRESS OF          | 1                                       | IN RESIDENCE  | The second   | -  | AND REAL PROPERTY.   | The second second                       |   | 100000   | 107000000        |  | -                 | Section 199  |                   | Total Control      | -                       |   |   | Contract Contract                       |                                      |                                      |                       | _  |  |  |   |                                | _  | -  | -                                       |   |  |
| Tuendry, June 25, 2023                              | September 1                         |   | Section 1997  |  | 100000000000000000000000000000000000000  | Description.   |   | Laboratoria de la constantina della constantina | The same of the same of  |                  | -  | Chelling 1        |  | Charles and the   |                    |                         |   |   |   |                                      |                                      | -                     |  |  |  |   |                                | _  |  |   |   |  |
| Wednesday, June 22, 2027                            | A CONTRACTOR OF THE PERSON NAMED IN |   | Annual Property and address of the last   | THE REAL PROPERTY.   | Name and Address of the Owner, where   | Later Street   | Section in                              | C PROPERTY OF   |  | No. of Con-      | The same of  | ALC: YES          | The Part of the Pa | 1000000           | -                  |                         |   |   |   |                                      | The second second                    | -                     | -  |  |  |   | -                              |  |  |   |   |  |
| Thursday, June 23, 2022                             |                                     |   | Tarifford Street  | Total Street   | 1000   | Control of the last  |   | and the last of   | 100000   | Personal         | Property and the   | All residents     |  | The same          | 10000              | and the same of         | For plante have been  | 200                                     |   |                                      |                                      |                       |  |  |  |   |                                |  |  |   |   |  |
| \$1derg, Suns 24, 2022                              | THE PARTY                           |   | AND DESCRIPTIONS.   |  |  |  | THE REAL PROPERTY.                      | The second second   | 1  | The Course       | BATTERS.   | District Co.      |  | 100000            | The second         | All Persons in con-     | Printed Street, or other  | -                                       |   |                                      | -                                    | The second            |  | District Control of the last   | -  |   |                                | Name and Address of  |  | 100000000000000000000000000000000000000 | -                                       |  |
| Seturday, June 25, 2022                             | A CONTRACTOR OF THE PERSON NAMED IN | 1                                       | DISCOVERY.  | Part of the last   |  |  |   | The second second   | PROPERTY AND PROPERTY.   |                  | half-market  | Section 2         | 1000   |                   |                    | State of the last       |   | Section Section                         | The second second                       | 1000000                              | Contract Contract                    |                       | DOM: NO.   | Company of the last of the las | -  |   | The second                     |  | 100000000000000000000000000000000000000  |   |   |  |
| Sonder, New 26, 2022                                |                                     |   | ASSESSMENT OF THE PARTY NAMED IN  | STREET, SQUARE, SQUARE,  | 100000000  | PERSONAL PROPERTY.   | 100000                                  | Color Color   |  | the contra       | AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM | 15000000          |  |                   |                    | Sec.                    | 100000000000000000000000000000000000000   | AND REAL PROPERTY.                      | ALTO VIOLENCE                           | Date of the lateral                  | The Real Property lies               |                       | \$100 march  | ESCHEROLOGY AGAIN  | Separate and a separa | _                                       | 100000                         |  |  |   | Contract of the last                    |  |
| Mundry, Suns 27, 2022                               |                                     |   | 9.30  | - Q  | \$.000000  | 6.261000   | 3.799140                                |   | 7.8  | 20.4             | 1.0  | 1.0               | 8.0  | 5.0               | 1.0                | 10.0                    | 8.00  |   | 64.80                                   | 5.88                                 | 0.80                                 | 7.33                  | 2.50   |  |  |   |                                |  |  |   |   |  |
| Family, June 28, 2022<br>Wednesday, June 28, 2022   |                                     |   | 0.00  | 70   |  | 0.281000   |   |   | 7.2  | 20.7             | 10   | 10                | 84   | 1                 | Le                 | 48.3                    | 8.00  |   | 64.80                                   | 3.30                                 | 0.55                                 | 7.20                  | 279  |  | BDC8   | 22440                                   | 13173                          | 6.00   |  |   |   | •  |
| Wednesday, June 29, 2022<br>Thursday, June 34, 2022 |                                     |   | 0.00  | Q  | 8.543000   |  |   | 6.251740  | E)   | 28.4             | 8.4  | 1.0               | LA.  | 14                | LO                 | 44.9                    | 12.00   |   | 17.20                                   |                                      | 3.04                                 | 6.70                  | 270  |  | 8008   | 22469                                   | 13/03                          | 6.00   |  |   |   | 1  |
| Duraday, Jene 34, 2022                              |                                     |   | 0.00  | a  |  | 0.23mme  |   |   | ш  | 21.4             | 14   | 14                | 8.0  | 14                | 1.0                |                         | 8.00  |   | 64.80                                   | 3.14                                 |                                      | 8.00                  | 240  |  |  | 22478                                   |                                | 5.00   |  |   |   | 1  |
| Semantino, July 2, 2022                             | 10-00                               |   | 0.00  | 73   | L054000  | 0.213000   | 6.778000                                |   | 7.4  | 21.3             | LA   | 1.0               | 8.0  | 1.0               | 1.0                | 44.3                    | 30.00   |   | 81.60                                   | 1.10                                 | 013                                  | 7.80                  | 330  |  |  | 22454                                   |                                | 4.00   |  |   |   |  |
| Secretary, Salve E., 2022                           | 10.00                               | CC.                                     | 0.00  | - 4  | 1.31 10:00   | 6.234000   |   |   | 6.2  | 30.6             | 8.0  | 1.0               | 10.0   | 1.0               | 1.0                | 46.9                    | 6.00  |   | 44                                      | 1.74                                 | 0.07                                 | \$.20                 | 150  |  |  | 22499                                   |                                | 6.00   |  |   |   | ,  |
| Manday My A, 2022                                   | 2000                                | 77                                      | 0.00  | - 4  | 1.533000   |  | 5.1743.70                               |   | 74   | 21.0             | 8.0  | 14                | 10.4   | 14                | 1.0                | 46.5                    | 6.50  |   | 440                                     | 3.92                                 | 0.00                                 | 7.63                  | 255  |  |  | 22501                                   |                                | 1.00   |  |   |   | ,  |
| Trendry, July S. 2022                               | 8.30                                |   | 0.40  | -  | 1.05.2000  | 6.241000   |   | 6.3377236   | 12   | 43               | 10.0   | 14                | 10.0   | 140               | 1.0                | 44.1                    | 5.00  |   | 40.50                                   | 1.35                                 | 0.00                                 | 1,20                  | 150  |  |  | 22308                                   |                                | 6.00   |  |   |   | ,  |
| Wednesday, July 5, 2022                             | \$100                               | No.                                     | 611   |  |  | 8.312000   |   |   | A1   | 44               | MA.  | - 11              | 12.0   | 14                | 1.0                | 44.5                    | 6.20  |   | 410                                     |                                      | 6.30                                 |                       |  |  |  | 22516                                   |                                | 1.00   |  |   |   | ,  |
| Thursday, pay J., 2020                              | 900                                 |   | 0.00  | -  | 2.114000   |  | 647920                                  |   | 44   | 21.3             | 14   | - 11              | 13   | 140               | 1.0                | 46.5                    | (L3)  | _                                       | 440                                     |                                      | 0.57                                 | 8.10                  | _  |  |  | 22525                                   |                                | 1.00   | _  |   |   | - 6  |
| Friday, July 8, 2022                                | 2.52                                |   | 6.00  | -  |  | 8.217000   |   |   | 41   | 722              | 10   |                   | 18.0   | 120               | 10                 | 44.3                    | 1.00  |   | 26.45                                   |                                      | 0.04                                 | 8.60                  |  |  |  | 22533                                   |                                | 1.00   |  |   |   | •  |
| Securities, 3-July 8, 2022                          | 1200                                | Me                                      | 0.15  | n  | 2.671000   | 6.279000   |   | 6.230026  | 41   | 23.2             | 10   | - 13              | 44   |                   | 1.0                | 44.1                    | 1.00  |   | 16.70<br>M.M                            | 130                                  | 0.28                                 | 9.40                  | 150  |  |  | 22341                                   |                                | 2.00   | _  |   |   |  |
| Screen Auto \$4, 2022                               | 12.50                               | 504                                     | 0.00  | 80   | 1247000  |  |   | 624488  | - ii   | 22.8             | 1.0  | 10                | 100  | - 44              | 12                 | 4.1                     | 6.00  |   | M40                                     | 1.30                                 | 0.04                                 | 1.50                  | -  |  | 8608   | 77150                                   | 13354                          | 2.75   | _  |   | _                                       |  |
| Monday July 11, 2022                                | 9.50                                | 7.9                                     | 0.00  | 76   | 1.64 (0.00   | 8.251000   |   |   | 13   | 21.4             | 10   | 14                | 11.0   | - 12              | 10                 | 41                      | 6.00  | _                                       | 44.10                                   | 1.09                                 | 0.09                                 | 1.10                  |  |  |  |   |                                | 1.50   | _  |   | _                                       |  |
| Femders My 12, 2022                                 | 915                                 | FW                                      | 0.92  | 70   | 8,77,90.00   |  | 2.54 20.00                              |   | M  | 21.6             | 74   | 14                | 11.4   | 14                | 1.0                |                         | 6.00  | _                                       | 44.10                                   |                                      | 6.00                                 | A 50                  | 790  |  |  | 22546<br>22576                          |                                | 1.00   | -  |   | _                                       | -  |
| Wednesday, July 13, 2022                            | 930                                 |   | 0.50  | 75   | 1,9972000  |  | 7.AE71.10                               |   | N)   | 21.6             | 7.0  | 14                | 14   | 14                | 10                 | 40                      | 4.30  |   | 211                                     | 0.88                                 |                                      | 8.20                  | 250  |  |  | 72574                                   |                                | 675  | _  |   | _                                       | + :  |
| Thursday, July 14, 2022                             | 9:00                                |   | 0.45  | ×  | 4.253000   | 4.15.000   | 7.8509.20                               | 6,343779  | - W  | 21.3             | 7.8  | 14                | 14   | 14                | 14                 |                         | 1.00  | _                                       | 46.50                                   |                                      | 6.00                                 | 8.00                  | 450  |  |  | 72593                                   |                                | 1.00   | _  |   | _                                       | 1  |
| Selding, 34'y 13, 2022                              | 9:00                                | t w                                     | 6.00  | 72   | CAL STOR   |  | 7.841700                                |   | ш  | 27.4             | 7.0  | 10                | -  | 10                | 14                 | 44                      | Lin   | _                                       | 49.50                                   | 1.05                                 |                                      | 8.60                  | 140  |  |  | 22599                                   |                                | 1.00   | _  |   | _                                       | + :  |
| Seturday, July 18, 2022                             | 10 40                               |   | 0.45  | 77   | 4.779008   | 0.234000   |   |   | - H  | 21.2             | 7.0  | 13                | 0.0  | 14                | 14                 | 46.0                    | 5.00  |   | W.50                                    |                                      | 0.00                                 | 1.00                  | 140  |  |  | 22599<br>22408                          |                                | 325  | _  |   | _                                       | + +  |
| Sandey Saly 17, 2022<br>Mandry My 18, 2022          | 243                                 | 2.6                                     | 6.00  | 70   | 4.564000   |  |   | 6,209750  | 14   | 21.3             |  | 12                | 0.0  | 14                | 14                 | 44.9                    | 5.00  | _                                       | #I.50                                   | 141                                  |                                      | 1.00                  | _  |  |  | 22515                                   |                                | 975  | _  |   | _                                       | 1.75   |
|   |                                     | 23                                      | 6.00  |  | 5.14 Tube  |  |   | 6,23,1739   |  | 21.5             |  |                   |  |                   |                    |                         |   |   |   |                                      |                                      |                       |  |  |  |   |                                |  |  |   |   |  |

#### Howell Township Plant Repair Projects Summary

|     | Wastewater Treatment Plant                                 |          |
|-----|--|----------|
| No. | Project Description  | Cost     |
| 1   | Lakeside Fine Screen Per DuBois Cooper Email Dated 7-18-22 | \$22,294 |
| 2   | Air Compressor   |          |
| 3   | North RAS Pump   | \$7,190  |
| 4   | Packing and Seal on Middle RAS Pump                        |          |
| 5   | New South RAS Pump   |          |
| 6   | Building for Influent Sampler                              |          |
| 7   | Ferric Room Sump Pumps                                     |          |
| 8   | Plant Lighting Improvements                                |          |
| 9   | Painting of Plant Doors, Rooms, Floors, Etc.               |          |
|     |  |          |



1022 E Devon Ave, BARTLETT IL 60103

T: (630) 837-5640 F: (630) 837-5647 E: parts@lakeside-equipment.com https://www.lakeside-equipment.com/

#### PARTS REPLACEMENT QUOTE

DATE: 07/18/2022

EMAIL:

FOR: DUBOIS-COOPER ASSOCIATES INC.

SUBJECT: Quote #:99-202 HOWELL TOWNSHIP, MI

**ATTN: GREG TATARA** 

**QUOTE NO: Q22000701** 

FROM: LaVar Parish

Replacement Parts

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivery of the message to the intended recipient, YOU ARE HEREBY NOTIFIED that any dissemination, distribution, publication, or copying of this message is strictly prohibited. If you have received this message in error, please notify Lakeside immediately by phone at 630-837-5640 and return the message by U.S. Mail.

Dear: GREG TATARA

We are pleased to quote the following replacement parts for your Equipment(s). Your current costs are as follows:

| Equipment No: | 1) 1 - 20MS- | 0.25-176 Micro Strainer            | 99-202-01     |             |
|---------------|--------------|------------------------------------|---------------|-------------|
|               | 1 EA         | 20MS BRUSH ASSEMBLY w/ CLIPS & HDW | A48364AA-P005 | \$1,164.00  |
|               | 1 EA         | SCREEN TROUGH WELDMENT             | D75963C       | \$12,010.00 |
|               | 1 EA         | 20MS TROUGH GASKET ASSEMBLY        | B87534F       | \$715.00    |
|               | 2            | 3/4" LOWER BEARING BAR             | A109601       | \$216.00    |
|               | 1 EA         | D56316G SPRAY WASH PIPING          | NOTE          | \$5,599.00  |
|               | 1 EA         | D59539 DISCHARGE EXTENSION CHUTE   | NOTE          | \$2,590.00  |

Please be advised that this quotation will be honored for 30 days.

Vas L. Paish

The above prices are F.O.B. factory with freight allowed to the job site. Terms of payment are net 30 days from date of shipment and the Conditions of Sales are in accordance with GIL-108, copy attached

NOTE: Lakeside will accept payment by Credit Card. A 3% Service Charge will be added to the invoice upon shipment

Shipment would be 8-10 WEEKS after receiving an order subject to the shop's backlog at the time of the order.

In an effort to become more efficient Lakeside would prefer to invoice clients by email whenever possible. When ordering if you could verify the email address you wish to have the invoice sent to it would be appreciated. We will Still be glad to mail the invoice if you wish

We thank you for this opportunity to quote and are looking forward to being of service to you

Very truly yours,

LaVar Parish

E-Mail:lp@lakeside-equipment.com

CC:

|                             | QUOTATION ACCEPTED BY: |  |
|-----------------------------|------------------------|--|
| Sign as Agent for Purchaser |                        |  |
| Print Name                  |                        |  |
| Title                       |                        |  |
| Company                     |                        |  |
| Date                        |                        |  |



|           | QUOTATION |        |
|-----------|-----------|--------|
| DATE      | NUMBER    | PAGE   |
| 3/29/2022 | 0045784   | 1 of 2 |

| В | <b>HOW201</b> |   |
|---|---------------|---|
|   | 11044701      | • |

L HOWELL TOWNSHIP

L 3525 BYRON RD

T assessor@howelltownshipmi.org

o HOWELL, MI 48855

| Accepted By: |  |
|--------------|--|
| Company:     |  |
| Date:        |  |
| PO#:         |  |

ATTENTION:

JASON HALL

810-624-9656

jason.hall@inframark.com

WE ARE PLEASED TO PROPOSE THE FOLLOWING FOR YOUR CONSIDERATION:

| CUSTOMER REF/PO# | JOB TITLE  | SLP     | SHIPPING TYPE |
|------------------|--|---------|---------------|
|                  | RAS PUMPS AND BURKHART RD, HAYWARD GORDON, PUMP,<br>XCS4-C, SEWAGE | BHS/CRB | FIELD SERVICE |
| QTY DESCRIPTION  |  |         |               |

THE FOLLOWING QUOTE IS FOR THE COST OF LABOR AND MATERIALS TO REPAIR THE ABOVE REFERENCED PUMP.

#### NEW PARTS REQUIRED:

\*\*\*\*\*\*\*

- (1) MECHANICAL SEAL
- (1) STUFFING BOX GASKET
- (1) DISCHARGE GASKET
- (1) SUCTION GASKET
- (1) THRUST BEARING PUMP
- (1) RADIAL BEARING PUMP
- (1) BEARING LOCK NUT
- (1) BEARING LOCK WASHER
- (1) SNAP RING
- (1) RADIAL BEARING MOTOR
- (1) THRUST BEARING MOTOR
- (1) SET OF O-RINGS
- (1) SET OF FITTINGS
- (1) SET OF FASTENERS
- (1) COUPLING INSERT
- (2) LIPSEALS

#### LABOR REQUIRED:

#### \*\*\*\*\*\*\*\*\*\*

PICKUP AT JOB SITE AND TRANSPORT TO KENNEDY INDUSTRIES' WIXOM REPAIR FACILITY.

PERFORM ALL ELECTRICAL TESTS ON MOTOR AND TEST RUN.

DISASSEMBLE COMPLETE PUMP AND MOTOR.

SANDBLAST COMPONENTS AND PREP FOR INSPECTION.

DIMENSIONALLY MEASURE ALL OPERATING CLEARNACES AND RECORD ON INSPECTION REPORT.

ASSEMBLE ALL ROTATING PARTS ON SHAFT AND PLACE IN BALANCE MACHINE.

VERIFY T.I.R'S THEN DYNAMICALLY BALANCE ROTATING ELEMENT TO 4W/N.

ASSEMBLE PUMP AND MOTOR COMPLETE WITH NEW PARTS LISTED.

PERFORM ALL ELECTRICAL TESTS ON MOTOR AND TEST RUN.



| QUOTATION |         |        |  |  |  |  |  |  |
|-----------|---------|--------|--|--|--|--|--|--|
| DATE      | NUMBER  | PAGE   |  |  |  |  |  |  |
| 3/29/2022 | 0045784 | 2 of 2 |  |  |  |  |  |  |

#### QTY DESCRIPTION

PRESSURE TEST TO ENSURE LEAK FREE.

PAINT THEN PRESERVE PUMP FOR FIELD SERVICE INSTALLATION.

TOTAL COST: \$4,995.00

DELIVERY: 4 WEEKS (AFTER RECEIPT OF ORDER)

\*\*\*\*\*\*\*\*

THE FOLLOWING QUOTE IS FOR FIELD SERVICE REQUIRED ON YOUR ABOVE REFERENCED PUMP STATION:

FIELD SERVICE LABOR REQUIRED:

\*\*\*\*\*\*\*\*\*

KENNEDY INDUSTRIES WILL PROVIDE (2) FIELD SERVICE TECHNICIAN(S) ONSITE TO INSTALL YOUR REPAIRED PUMP, START UP, TEST RUN AND VERIFY PROPER OPERATION.

TOTAL FIELD SERVICE COST: \$2,195.00

\*

\*

TOTAL REPAIR COST: \$4,995.00

TOTAL FIELD SERVICE COST: \$2,195.00

TOTAL COST: \$7,190.00

DELIVERY: 4 WEEKS (AFTER RECEIPT OF ORDER)

PLEASE PROVIDE WRITTEN OR VERBAL AUTHORIZATION SO THAT WE MAY RESPOND TO YOUR REQUIREMENTS. IF YOU HAVE ANY QUESTIONS, COMMENTS, OR ARE IN NEED OF ADDITIONAL INFORMATION PLEASE FEEL FREE TO CONTACT ME AT (248) 684-1200.

SINCERELY,

KENNEDY INDUSTRIES

MIKE HORN MHORN@KENNEDYIND.COM REPAIR CENTER MANAGER

CRB

This quote is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Kennedy reserves the right to change the Terms & Conditions and Customer Warranty for future orders. By accepting this quote and/or issuing a purchase order relative to this quote, buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.

QUOTE VALID FOR 30 DAYS. CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE NO TAXES OF ANY KIND ARE INCLUDED IN THIS PROPOSAL. PAYMENT TERMS: NET 30

TOTAL:

\$7,190.00

Page 3 of 27

#### Section A. Limitations and Monitoring Requirements

#### 1. Final Effluent Limitations, Monitoring Point 001A

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge treated municipal wastewater from Monitoring Point 001A through Outfall 001. Outfall 001 discharges to the South Branch of the Shiawassee River at Latitude 42.61222, Longitude -83.96444. Such discharge shall be limited and monitored by the permittee as specified below.

| Barranatan                             |                         |              |                      |                    |                         |            |                         |              | Sample                 |                                 |
|--|-------------------------|--------------|----------------------|--------------------|-------------------------|------------|-------------------------|--------------|------------------------|---------------------------------|
| Parameter                              | wontniy                 | 7-Day        | Daily                | Units              | Monthly                 | 7-Day      | Daily                   | Units        | Frequency              | Type                            |
| Flow                                   | (report)                |              | (report)             | MGD                |                         |            |                         |              | Daily                  | Report Total<br>Daily Flow      |
| Carbonaceous Bioc                      |                         |              |                      |                    |                         |            | 40                      |              | F. W. H.               | 0411.0                          |
| May - November<br>December - March     | 25<br>81                | 63<br>130    | (report)<br>(report) | lbs/day<br>lbs/day | 4<br>13                 |            | 10<br>20                | mg/l<br>mg/l | 5× Weekly<br>5× Weekly | 24-Hr Composite 24-Hr Composite |
| April                                  | <b>7</b> 5              | 110          | (report)             | lbs/day            | 12                      |            | 18                      | mg/l         | 5× Weekly              | 24-Hr Composite                 |
| Total Suspended So                     |                         |              |                      |                    |                         |            |                         |              |                        |                                 |
| May - November                         | 130                     | 190          | (report)             | lbs/day            | 20                      | 30         | (report)                | mg/l         | 5× Weekly              | 24-Hr Composite                 |
| December - April                       | 190                     | 280          | (report)             | lbs/day            | 30                      | 45         | (report)                | mg/l         | 5× Weekly              | 24-Hr Composite                 |
| Ammonia Nitrogen (                     | as N)                   |              |                      |                    |                         |            |                         |              |                        |                                 |
| May - November                         | 3.1                     | 13           | (report)             | lbs/day            | 0.5                     |            | 2.0                     | mg/l         | 5× Weekly              | 24-Hr Composite                 |
| December - March                       |                         | 44           | (report)             | lbs/day            |                         |            | 7.0                     | mg/l         | 5× Weekly              | 24-Hr Composite                 |
| April                                  |                         | 34           | (report)             | lbs/day            |                         |            | 5.4                     | mg/l         | 5× Weekly              | 24-Hr Composite                 |
| Total Phosphorus (as                   | P) 3.1                  |              | (report)             | lbs/day            | 0.50                    |            | (report)                | mg/l         | Weekly                 | 24-Hr Composite                 |
| Fecal Coliform Bact                    | eria                    |              |                      |                    | 200                     | 400        | (report)                | cts/100 ml   | 5× Weekly              | Grab                            |
| Total Mercury                          |                         |              |                      |                    |                         |            |                         |              |                        |                                 |
| Corrected                              | (report)                |              | (report)             | lbs/day            | (report)                |            | (report)                | ng/l         | Quarterly              | Calculation                     |
| Uncorrected                            |                         |              |                      |                    |                         |            | (report)                | ng/l         | Quarterly              | Grab                            |
| Field Duplicate                        |                         |              |                      |                    |                         |            | (report)                | ng/l         | Quarterly              | Grab                            |
| Field Blank                            |                         |              |                      |                    |                         |            | (report)                | ng/l         | Quarterly              | Preparation                     |
| Laboratory Meth                        | nod Blank               |              |                      |                    |                         |            | , ,                     |              |                        |                                 |
|  |                         |              |                      |                    |                         |            | (report)                | ng/l         | Quarterly              | Preparation                     |
| Ro                                     | 12-Month<br>lling Avera |              |                      | Ro                 | 12-Month<br>lling Avera | <u>ige</u> |                         |              |                        |                                 |
| Total Mercury                          | 0.000019                |              |                      | lbs/day            | 3.0                     |            |                         | ng/l         | Quarterly              | Calculation                     |
| rotal Wordary                          | 0.000010                |              |                      | iborday            | 0.0                     |            |                         | ng/i         | additiony              | Carcalation                     |
|  |                         |              |                      |                    | Minimum<br>Monthly      |            | Minimum<br><u>Daily</u> | 1            |                        |                                 |
| Total Suspended So<br>December - April | olids Minim<br>         | um % Rer<br> | noval<br>            |                    | 85                      |            | (report)                | %            | Monthly                | Calculation                     |
|  |                         |              |                      |                    | Minimum<br><u>Daily</u> |            | Maximun<br><u>Daily</u> | n            |                        |                                 |
| pН                                     |                         |              |                      |                    | 6.5                     |            | 9.0                     | S.U.         | Daily                  | Grab                            |
| Dissolved Oxygen                       |                         |              |                      |                    |                         |            |                         |              |                        |                                 |
| May - November                         |                         |              |                      |                    | 5.0                     |            |                         | mg/l         | Daily                  | Grab                            |
| December - April                       |                         |              |                      |                    | 7.0                     |            |                         | mg/l         | Daily                  | Grab                            |
|  |                         |              |                      |                    |                         |            |                         |              |                        |                                 |

#### **PARTI**

#### **Section A. Limitations and Monitoring Requirements**

#### 1. Final Effluent Limitations, Monitoring Point 001A

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge treated municipal wastewater from Monitoring Point 001A through Outfall 001. Outfall 001 discharges to the South Branch of the Shiawassee River at Latitude 42.6122, Longitude -83.9644. Such discharge shall be limited and monitored by the permittee as specified below.

|                            |              |         | Limits for |              | Maximum Limits for Quality or Concentration Mo |       |          |               | Monitoring | Sample                     |
|----------------------------|--------------|---------|------------|--------------|--|-------|----------|---------------|------------|----------------------------|
| <u>Parameter</u>           | Monthly      | 7-Day   | Daily      | <u>Units</u> | Monthly  | 7-Day | Daily    | Units         | Frequency  | Type                       |
| Flow                       | (report)     |         | (report)   | MGD          |  |       |          |               | Daily      | Report Total<br>Daily Flow |
| Carbonaceous Bioche        | emical Oxyge | en Dema | nd (CBOE   | )5)          | *  |       |          |               |            |                            |
| May - November             | 25           | 63      | (report)   | lbs/day      | 4  |       | 10       | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| December – March           | 81           | 130     | (report)   | lbs/day      | 13   |       | 20       | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| April                      | 75           | 110     | (report)   | lbs/day      | 12   |       | 18       | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| Total Suspended Soli       | ds (TSS)     |         |            |              | ,  |       |          |               |            |                            |
| May - November             | 130          | 190     | (report)   | lbs/day      | 20   | 30    | (report) | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| December – April           | 190          | 280     | (report)   | lbs/day      | 30   | 45    | (report) | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| Ammonia Nitrogen (a        | s N)         |         |            |              |  |       |          |               |            |                            |
| May – November             | 3.1          | 13      | (report)   | lbs/day      | 0.5  |       | 2.0      | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| December – March           |              | 44      | (report)   | lbs/day      |  |       | 7.0      | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| April                      |              | 34      | (report)   | lbs/day      |  |       | 5.4      | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| Total Phosphorus (as P)    | 3.1          | ,       | (report)   | lbs/day      | 0.5  |       | (report) | mg/l          | 5x Weekly  | 24-Hr<br>Composite         |
| Fecal Coliform<br>Bacteria |              |         |            |              | 200  | 400   | (report) | cts/100<br>ml | 5x Weekly  | Grab                       |
| Chloride                   |              |         |            |              | (report)                                       |       | (report) | mg/l          | Monthly    | 24-Hr<br>Composite         |
| Sulfate                    |              |         |            |              | (report)                                       |       | (report) | mg/l          | Monthly    | 24-Hr<br>Composite         |
| Total Mercury              | •            |         |            |              |  |       |          |               |            |                            |
| Corrected                  | (report)     |         | (report)   | lbs/day      | (report)                                       |       | (report) | ng/l          | Quarterly  | Calculation                |
| Uncorrected                |              |         |            |              |  |       | (report) | ng/l          | Quarterly  | Grab                       |
| Field Duplicate            |              |         |            |              |  |       | (report) | ng/l          | Quarterly  | Grab                       |
| Field Blank                |              |         |            |              |  |       | (report) | ng/l          | Quarterly  | Preparation                |
| Laboratory<br>Method Blank |              |         |            |              |  |       | (report) | ng/l          | Quarterly  | Preparation                |

#### PART I

#### Section A. Limitations and Monitoring Requirements

|                   | )                       | Maximum Limits for<br>Quantity or Loading |              |              | Maximum Limits for Quality or Concentration |       |                           |              | Monitoring | Sample      |
|-------------------|-------------------------|---|--------------|--------------|---|-------|---------------------------|--------------|------------|-------------|
| <u>Parameter</u>  | <u>Monthly</u>          | 7-Day                                     | <u>Daily</u> | <u>Units</u> | <u>Monthly</u>                              | 7-Day | <u>Daily</u>              | <u>Units</u> | Frequency  | Type        |
|                   | 12-Month<br>Rolling Avg |   |              |              | 12-Month<br>Rolling Avg                     |       | Minimum %<br><u>Daily</u> |              |            |             |
| Total Mercury     | 0.000019                |   |              | lbs/day      | 3.0   |       | ***                       | ng/l         | Quarterly  | Calculation |
|                   |                         |   |              |              | Minimum %<br>Monthly                        |       |                           |              |            |             |
| TSS Minimum % Rei | moval                   |   |              |              |   |       |                           |              |            |             |
| December – April  |                         |   |              |              | 85  |       | (report)                  | %            | Monthly    | Calculation |
|                   |                         |   |              |              | Minimum<br><u>Daily</u>                     |       | Maximum<br><u>Daily</u>   |              |            |             |
| рН                |                         |   |              |              | 6.5   |       | 9.0                       | S.U.         | Daily      | Grab        |
| Dissolved Oxygen  |                         |   |              |              |   |       |                           |              |            |             |
| May – November    |                         |   |              |              | 5.0   |       |                           | mg/l         | Daily      | Grab        |
| December – April  |                         |   |              |              | 7.0   |       |                           | mg/l         | Daily      | Grab        |

The following design flow was used in determining the above limitations, but is not to be considered a limitation or actual capacity: 0.75 MGD.

#### a. Narrative Standard

The receiving water shall contain no turbidity, color, oil films, floating solids, foams, settleable solids, or deposits as a result of this discharge in unnatural quantities which are or may become injurious to any designated use.

#### b. Sampling Locations

Samples for Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>), Total Suspended Solids (TSS), Ammonia Nitrogen (as N), Total Phosphorus (as P), Chloride, and Sulfate shall be taken prior to disinfection. Samples for Fecal Coliform Bacteria, Total Mercury, pH, and Dissolved Oxygen shall be taken after disinfection. The Department may approve alternate sampling locations that are demonstrated by the permittee to be representative of the effluent.

#### c. Quarterly Monitoring

Quarterly samples shall be taken during the months of January, April, July, and October. If the facility does not discharge during these months, the permittee shall sample the next discharge occurring during the period in question. If the facility does not discharge during the period in question, a sample is not required for that period. For any month in which a sample is not taken, the permittee shall enter "\*G" on the Discharge Monitoring Report (DMR). (For purposes of reporting on the Daily tab of the DMR, the permittee shall enter "\*G" on the first day of the month only).

#### d. Ultraviolet Disinfection

It is understood that ultraviolet light will be used to achieve compliance with the fecal coliform limitations. If disinfection other than ultraviolet light will be used, the permittee shall notify the Department in accordance with Part II.C.12. of this permit.

Section 2
Collection System Operation

#### **Howell Township Pump Stations**

#### Summary

#### • PS-70 (Trans West)

o Cleaned Wet Well

#### • PS-71 (Burkhart North)

- o Relocated Generator Outlet
- o Met with Contractors about Rehabbing Station

#### • PS-72 (Burkhart South)

- o Replaced Phase Monitor
- o Replaced Generator Block Heater
- o Replaced Transfer Switch Battery
- o Replaced Cabinet Fan
- o Replaced Exhaust Fan

#### • PS-73 (Lambert)

- o Pump #1 VFD is Bad
- Pump #2 Installed Hour Meter
- o Cleaned Wet Well
- o Installed Quick Connect to Bypass Line

#### • <u>PS-74 (Tooley)</u>

- o Installed Sump Pump in Metering Pit
- o Installed Fuses in Surge Suppressor
- PLC is Bad (Waiting on Kennedy)

#### • PS-75 (South Oak Grove)

- o UIS onsite to Fix Pump 1
- o Replaced Carbon Fan
- o Installed New High/Low Level Floats
- o Replaced Transfer Switch Battery
- o Installed New Cabinet Fan
- Filled Ruts in Lawn with Top Soil and Grass Seed

#### • PS-76 (North Oak Grove)

- o Pump at Kennedy (\$12,590)
- o Replaced Transfer Switch Battery

- o Replaced Generator Block Heater
- o Ordered New Secondary Surge Arrestor

#### • PS-77 (Operator School)

- o Replaced Soft Start for Pump #2
- o Replaced Cabinet Fan
- o Replaced Surge Arrestor
- o Installed Tracer Box

#### • PS-78 (Grand River)

- o Removed Silt Fence
- o Replaced Cabinet Exhaust Blower



#### Pump Station 70 Weekly Checks

| Date      | Time     | Initials | Pump 1 | Pump 2 | кwн   | Generator<br>Hours | Fuel/Gas<br>Read | Hours #1 | Hours #2 | HOURS SINCE<br>LAST CHECK IN | a Cir Davis | AVG RUNTINE /<br>DAY PUMP ( | AVG RUNTIME / BAY<br>PUMP 2 | KWH Net | Generator<br>Net | Fuel/Gas<br>Net | Comments                               |
|-----------|----------|----------|--------|--------|-------|--------------------|------------------|----------|----------|------------------------------|-------------|-----------------------------|-----------------------------|---------|------------------|-----------------|--|
| 6/28/2022 | 12:50 PM | bc       | 4479.7 | 4220.0 | 21127 | 444                | 80               |          | 10.00    |                              |             | Charles S.                  |                             |         | #VALUE!          | #VALUE!         |  |
| 7/5/2022  | 8:35 AM  | đb       | 4494.3 | 4234.5 | 21448 | 444                | 80               | 14.6     | 14.5     | 163.8                        | 6.8         | 2.140                       | 2.125                       | 321.0   | 0.0              | 0.0             |  |
| 7/19/2022 | 9:10 AM  | ds       | 4525.6 | 4265.3 | 22107 | 444                | 80               | 31.3     | 30.8     | 336.6                        | 14.0        | 2.232                       | 2.196                       | 659.0   | 0.0              | 0.0             | Generator Not Exercising, Looking Into |

| Date      | Time    | Initials | Pump 1 | Pump 2 | кwн   | Hours #1 | Hours #2 | HOURS SINCE LAST<br>CHECK N | # OF DAYS | AVG RUNTIME / DAY<br>PUMP 1 | AYG RUNTIME I DAY<br>PUMP 2 | KWH Net | Comments |
|-----------|---------|----------|--------|--------|-------|----------|----------|-----------------------------|-----------|-----------------------------|-----------------------------|---------|----------|
| 6/28/2022 | 9:50 AM | bc       | 5531.6 | 411.1  | 53613 |          |          |                             |           |                             |                             |         |          |
| 7/5/2022  | 9:50 AM | db       | 5534.5 | 414.0  | 53791 | 2.9      | 2.9      | 168.0                       | 7.0       | 0.414                       | 0.414                       | 178.0   |          |
| 7/19/2022 | 9:25 AM | ds       | 5540.1 | 420.2  | 54154 | 5.6      | 6.2      | 335.6                       | 14.0      | 0.400                       | 0.443                       | 363.0   | Good     |

| Date      | Time     | Initials | Pump 1 | Pump 2 | кwн   | Generator<br>Hours | Fuel/Gas<br>Read | Hours #1 | Hours #2 | HOURS SINCE<br>EAST CHECKIN | and care | AVG RUNTINE!<br>SAY PUREP I | AVG RUNTIME / DAY<br>PUMP 2 | KWH Net | Generator<br>Net | Fuel/Gas<br>Net | Comments                     |
|-----------|----------|----------|--------|--------|-------|--------------------|------------------|----------|----------|-----------------------------|----------|-----------------------------|-----------------------------|---------|------------------|-----------------|------------------------------|
| 6/28/2022 | 10:15 AM | bc       | 508.6  | 1393.3 | 52662 | 1008               | 598              |          | 120700   | -                           | 2230     |                             |                             |         | #VALUE!          | #VALUE!         |                              |
| 7/5/2022  | 10:15 AM | db       | 510.9  | 1399.4 | 52770 | 1008               | 599              | 2.3      | 6.1      | 168.0                       | 7.0      | 0.329                       | 0.871                       | 108.0   | 0.5              | 1.0             | Pump 2 is 3.8 hours higher   |
| 7/19/2022 | 9:55 AM  | dş       | 515.5  | 1412.3 | 52984 | 1009               | 602              | 4.6      | 12.9     | 335.7                       | 14.0     | 0.329                       | 0.922                       | 214.0   | 0.7              | 3.0             | Need to Adjust VFD on Pump 2 |

| Date      | Time     | Initials | Pump I | Pump 2 | Pump 3 | KWH  | Generator<br>Hours | Fuel/Gas<br>Read | Hours #1           | Hours #2 | Hours #3  | HOUSE MAKES CAN'<br>CHIEFE M | ets (att | AVG RUNTINE GAT<br>PARE I | AYO RUNT BILL DAY<br>PURP 2 | AVO RUNTHE: SAY<br>PURP 1 | KWH Nat | Generator<br>Net | Fuel/Gas<br>Net | Comments   |
|-----------|----------|----------|--------|--------|--------|------|--------------------|------------------|--------------------|----------|-----------|------------------------------|----------|---------------------------|-----------------------------|---------------------------|---------|------------------|-----------------|--|
| 6/28/2022 | 10:40 AM | bc       | 2256.7 | 2256.7 | 2729.6 | 2760 | 481                | 70               | THE REAL PROPERTY. |          | William . | 1000                         | 10000    |                           |                             | #D(V/01                   |         | #VALUE!          | #VALUE!         |  |
| 7/5/2022  | 2:40 PM  | đb       | 2256.7 | 2256.7 | 2737.1 | 2766 | 482                | 70               | 0.0                | 0.0      | 7.5       | 172.0                        | 7.2      | 0.000                     | 0.000                       | 1.047                     | 6.0     | 0.6              | 0.0             | only pump 3 running?   |
| 7/19/2022 | 8:40 AM  | ds       | 2256.7 | 14,1   | 2748.6 | 2778 | 483                | 70               | 0.0                | -2242,6  | 11.5      | 330.0                        | 13.8     | 0.000                     | -163.098                    | 0.836                     | 12.0    | 1.1              | 0.0             | Pump 2 - New Hour Meter 1st Reading,<br>Pump 1 Lower Priority At This Time |

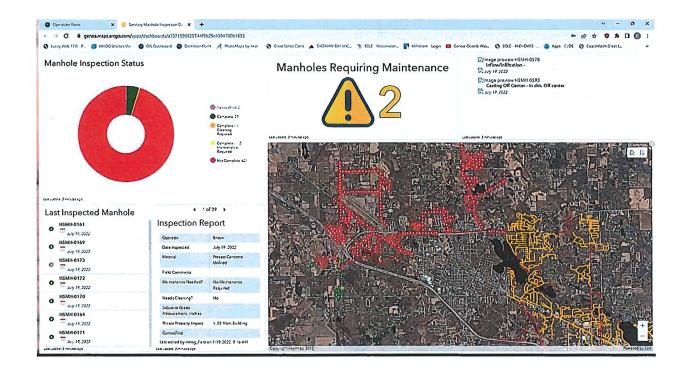
| Date      | Time     | Initials | Pump 1 | Pump 2 | кwн | Generator<br>Hours | Fuel/Gas<br>Read | Hours #1 | Hours #2 | HOLIES SINSE LAST<br>CHECK IN | +010411 | AVO RUNTING - GAY<br>PUMP ( | AYO RUNTINE BAY<br>PUMP 2 | KWH Net | Generator<br>Net | Fuel/Gas<br>Net | Comments  |
|-----------|----------|----------|--------|--------|-----|--------------------|------------------|----------|----------|-------------------------------|---------|-----------------------------|---------------------------|---------|------------------|-----------------|---|
| 6/28/2022 | 11:10 AM | bc       | 177.8  | 177.6  | 0   | 1439               | 80               |          |          |                               |         |                             | 1000                      |         | #VALUE!          | #VALUE!         | pump 1 turned off leaking                               |
| 7/5/2022  | 2:15 PM  | db       | 179.6  | 178.8  | 0   | 1440               | 80               | 1.8      | 1.2      | 171.1                         | 7.1     | 0.253                       | 0.168                     | 0.0     | 0.8              | 0.0             | Repaired Leak, PLC Screen Blank After<br>Battery Change |
| 7/19/2022 | 8:25 AM  | ds       |        |        | 0   | 1442               | 80               | -179.6   | -178.8   | 330.2                         | 13.8    | -13.055                     | -12.997                   | 0.0     | 1.6              | 0.0             | Running on Floats, No Hour Meter Readings               |

| Date      | Time    | Initials | Pump 1 | Pump 2 | кwн  | Generator<br>Hours | Fuel/Gas<br>Read | Hours #1 | Hours #2 | -curs since Last<br>C-CCs in | 404.0418   | AVG RUNTERE   DAY<br>PUMP 1 | AVD RUNTINE DAY<br>PUMP 2 | KWH Net  | Generator<br>Net | Fuel/Gas<br>Net | Comments  |
|-----------|---------|----------|--------|--------|------|--------------------|------------------|----------|----------|------------------------------|------------|-----------------------------|---------------------------|----------|------------------|-----------------|---|
| 6/28/2022 | 1:40 PM | bc       | 518.4  | 2304.0 | 2086 | 779                | 3375             |          |          |                              | ESTABLE OF |                             |                           | Sels Mil | #VALUE!          | #VALUE!         |   |
| 7/5/2022  | 1:20 PM | db       | 518.5  | 2311.4 | 2091 | 780                | 3378             | 0.1      | 7.4      | 167.7                        | 7.0        | 0.014                       | 1.059                     | 5.0      | 0.3              | 3.0             | Fixed Output Card On PLC, Pump 1 Working<br>Again |
| 7/19/2022 | 8:10 AM | ds       | 524.8  | 2320.3 | 2109 | 780                | 3380             | 6.3      | 8.9      | 330.8                        | 13.8       | 0.457                       | 0.646                     | 18.0     | 8.0              | 2.0             | Okay  |

| Date      | Time    | Initials | Pump 1 | Pump 2 | кwн   | Generator<br>Hours | Fuel/Gas<br>Read | Hours #1 | Hours #2 | HOLAS SINCE CASE<br>CHECK IN | roctos | AVG RUNTERE DAY<br>PUMP 1 | AYO BURTARE: DAY<br>PLAIP 2 | KWH Net | Generator<br>Net | Fuel/Gas<br>Net | Comments                               |
|-----------|---------|----------|--------|--------|-------|--------------------|------------------|----------|----------|------------------------------|--------|---------------------------|-----------------------------|---------|------------------|-----------------|--|
| 6/28/2022 | 1:15 PM | bc       | 2779.6 | 2236.8 | 79817 | 474                | 50               | HET THE  |          |                              |        | A PROPERTY.               | and one                     |         | #VALUE!          | #VALUE!         |  |
| 7/5/2022  | 1:40 PM | db       | 2787.9 | 2236.8 | 79913 | 474                | 50               | 8.3      | 0.0      | 168.4                        | 7.0    | 1.183                     | 0.000                       | 96.0    | 0.0              | 0.0             |  |
| 7/18/2022 | 8:45 AM | ds       | 2805.7 | 2236.8 | 80139 | 474                | 50               | 17.8     | 0.0      | 307.1                        | 12.8   | 1.391                     | 0.000                       | 226.0   | 0.0              | 0.0             | Generator Not Exercising, Looking Into |

| Date      | Time    | Initials | Pump 1 | Pump 2 | KWH   | Hours #1 | Hours #2 | HOURS SINCE LAST<br>CHECK IN | a OF DAYS | AVG RUNTDIE / DAY<br>PUMP 1 | AVG RUNTIME / DAY<br>PUMP 2 | KWH Net | Comments                          |
|-----------|---------|----------|--------|--------|-------|----------|----------|------------------------------|-----------|-----------------------------|-----------------------------|---------|-----------------------------------|
| 6/28/2022 | 2:15 PM | bc       | 349.2  | 509.5  | 14860 |          |          |                              |           |                             |                             |         |                                   |
| 7/5/2022  | 1:00 PM | db       | 349.6  | 509.8  | 14895 | 0.4      | 0.3      | 166.7                        | 6.9       | 0.058                       | 0.043                       | 35.0    |                                   |
| 7/18/2022 | 8:30 AM | ds       | 350.0  | 510.6  | 14959 | 0.4      | 0.8      | 307.5                        | 12.8      | 0.031                       | 0.062                       | 64.0    | Repaired Motor Starter for Pump 2 |

| Date      | Time     | Initials | Pump 1 | Pump 2 | кwн   | Hours #1 | Hours #2 | HOURS SINCE LAST<br>CHECK IN | # OF DAYS | AVG RUNTIME / DAY<br>PUMP 1 | AYO RUHTIME / DAY<br>PUMP 2 | KWH Net | Comments |
|-----------|----------|----------|--------|--------|-------|----------|----------|------------------------------|-----------|-----------------------------|-----------------------------|---------|----------|
| 6/28/2022 | 2:35 PM  | bc       | 811.4  | 873.5  | 17079 |          |          |                              |           |                             |                             |         |          |
| 7/7/2022  | 12:15 PM | bc       | 821.8  | 884.8  | 17476 | 10.4     | 11.3     | 213.7                        | 8.9       | 1.168                       | 1.269                       | 397.0   | ОК       |
| 7/19/2022 | 10:15 AM | ds       | 835.9  | 900.4  | 18013 | 14.1     | 15.6     | 286.0                        | 11.9      | 1.183                       | 1.309                       | 537.0   | OK       |



#### Monthly Missdig Log

Date Wednesday, June 01, 2022 Thursday, June 02, 2022 Friday, June 03, 2022 Saturday, June 04, 2022 Sunday, June 05, 2022 Monday, June 06, 2022 Tuesday, June 07, 2022 Wednesday, June 08, 2022 Thursday, June 09, 2022 Friday, June 10, 2022 Saturday, June 11, 2022 Sunday, June 12, 2022 Monday, June 13, 2022 Tuesday, June 14, 2022 Wednesday, June 15, 2022 Thursday, June 16, 2022 Friday, June 17, 2022 Saturday, June 18, 2022 Sunday, June 19, 2022 Monday, June 20, 2022 Tuesday, June 21, 2022 Wednesday, June 22, 2022 Thursday, June 23, 2022 Friday, June 24, 2022 Saturday, June 25, 2022 Sunday, June 26, 2022 Monday, June 27, 2022 Tuesday, June 28, 2022 Wednesday, June 29, 2022 Thursday, June 30, 2022

**Total** 

|                 |                             |               |                | June-                 | 22  |             |          |         |           |           |          |
|-----------------|-----------------------------|---------------|----------------|-----------------------|-----|-------------|----------|---------|-----------|-----------|----------|
|                 | Miss                        | sdig Tick     | ets            |                       |     |             |          | Mar     | ked       |           |          |
| Received        | Positive<br>Response        | Marked        | Cleared        | Out of<br>System      |     | мнос        | OPW      | LE      | G/O       | OPS       | нтѕ      |
| 15              | 25                          | 10            | 15             | 0                     |     | 7           | 0        | 0       | 1         | 2         | 0        |
| 34              | 32                          | 5             | 27             | 0                     |     | 5           | 0        | 0       | 0         | 0         | 0        |
| 26              | 28                          | 3             | 25             | 0                     |     | 1           | 1        | 0       | 0         | 1         | 0        |
| 4               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 5               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 36              | 32                          | 7             | 25             | 0                     |     | 7           | 0        | 0       | 1         | 0         | 0        |
| 35              | 27                          | 8             | 19             | 0                     |     | 6           | 0        | 0       | 2         | 0         | 0        |
| 28              | 27                          | 8             | 19             | 0                     |     | 8           | 0        | 0       | 0         | 0         | 0        |
| 26              | 29                          | 16            | 12             | 1                     |     | 7           | 1        | 0       | 7         | 1         | 0        |
| 23              | 34                          | 9             | 25             | 0                     |     | 4           | 2        | 0       | 1         | 2         | 0        |
| 4               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 1               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 37              | 34                          | 10            | 24             | 0                     |     | 6           | 1        | 0       | 2         | 1         | 0        |
| 24              | 31                          | 5             | 26             | 0                     |     | 2           | 0        | 0       | 2         | 1         | 0        |
| 29              | 19                          | 8             | 11             | 0                     |     | 5           | 1        | 0       | 1         | 1         | 0        |
| 32              | 26                          | 7             | 19             | 0                     |     | 5           | 0        | 0       | 0         | 2         | 0        |
| 8               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 4               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 23              | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 22              | 44                          | 11            | 33             | 0                     |     | 6           | 0        | 0       | 4         | 1         | 0        |
| 21              | 26                          | 7             | 19             | 0                     |     | 5           | 0        | 0       | 2         | 0         | 0        |
| 14              | 30                          | 4             | 26             | 0                     |     | 3           | 0        | 0       | 0         | 1         | 0        |
| 18              | 20                          | 9             | 11             | 0                     |     | 9           | 0        | 0       | 0         | 0         | 0        |
| 14              | 14                          | 3             | 11             | 0                     |     | 1           | 0        | 0       | 0         | 2         | 0        |
| 14              | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 6               | 0                           | 0             | 0              | 0                     |     | 0           | 0        | 0       | 0         | 0         | 0        |
| 21              | 20                          | 8             | 12             | 0                     |     | 5           | 0        | 0       | 2         | 1         | 0        |
| 20              | 36                          | 3             | 33             | 0                     |     | 2           | 0        | 0       | 0         | 1         | 0        |
| 24              | 27                          | 5             | 22             | 0                     |     | 3           | 0        | 0       | 2         | 0         | 0        |
| 28              | 26                          | 5             | 21             | 0                     |     | 4           | 0        | 0       | 0         | 1         | 0        |
| <u> </u>        |                             |               |                |                       |     |             |          |         |           |           |          |
| 596<br>Received | 587<br>Positive<br>Response | 151<br>Marked | 435<br>Cleared | 1<br>Out of<br>System |     | 101<br>MHQ6 | 6<br>OPW | 0<br>LE | 27<br>G/O | 18<br>OPS | 0<br>HTS |
| 20              | 20                          | 5             | 15             | 0                     |     |             | tal      |         |           | 152       |          |
| 20              |                             | erage Per     |                | V                     | % M | arked 1     |          | ived    |           | , 04      |          |

MHOG = MHOG Water System
OPW = Oak Pointe Water System

LE = Lake Edgewood Sewer System G/O = G/O Sewer System OPS = Oak Pointe Sewer System HTS = Howell Township Sewer System

25%

# Howell Township Collection System Repair Projects Summary

|     | Collection System                         |          |
|-----|---|----------|
| No. | Project Description                       | Cost     |
| 1   | PLC at Station 74 on Tooley Road          |          |
| 2   | Pump 3 at Station 73 (Lambert Drive)      |          |
| 3   | Pump 2 at Station 76 (N. Oak Grove Road)* | \$12,590 |
|     |   |          |
|     |   |          |
|     |   |          |
|     |   |          |
|     |   |          |
|     |   |          |
|     |   |          |

\* Quote Attached



|           | QUOTATION | -      |
|-----------|-----------|--------|
| DATE      | NUMBER    | PAGE   |
| 3/28/2022 | 0045755   | 1 of 2 |

| В | HOW201                        |
|---|-------------------------------|
| L | HOWELL TOWNSHIP               |
| L | 3525 BYRON RD                 |
| т | assessor@howelltownshipmi.org |
|   | HOWELL, MI 48855              |

| Accepted By: | <br> |
|--------------|------|
| Company:     | <br> |
| Date:        | <br> |
| PO#:         |      |

ATTENTION:

JASON HALL

810-624-9656

jason.hall@inframark.com

WE ARE PLEASED TO PROPOSE THE FOLLOWING FOR YOUR CONSIDERATION:

| CUSTOMER REF/PO# | JOB TITLE  | SLP     | SHIPPING TYPE |
|------------------|--|---------|---------------|
|                  | STATION #6, PUMP #2, FLYGT, PUMP, 3127.090-0630176, SEWAGE | BHS/CRB | FIELD SERVICE |
| QTY DESCRIPTION  |  |         |               |

THE FOLLOWING QUOTE IS FOR THE COST OF LABOR AND MATERIALS TO REPAIR THE ABOVE REFERENCED PUMP.

#### **NEW PARTS REQUIRED:** \*\*\*\*\*\*\*

- (1) UPPER MECHANICAL SEAL
- (1) LOWER MECHANICAL SEAL
- (1) UPPER BEARING
- (1) LOWER BEARING
- (1) O-RING KIT
- (74') POWER CABLE
- (2) CABLE SEALS
- (1) LEAKAGE SENSOR
- (1) STATOR FACTORY MUTUAL EXPLOSION PROOF
- (1) SET OF FASTENERS

#### LABOR REQUIRED:

#### \*\*\*\*\*\*

PICK UP AND TRANSPORT TO KENNEDY INDUSTRIES' WIXOM REPAIR FACILITY.

PERFORM ALL ELECTRICAL TESTS.

DISASSEMBLE, SANDBLAST, CLEAN AND INSPECT COMPLETE PUMP.

DIMENSIONALLY MEASURE ALL OPERATING CLEARANCES AND RECORD ON INSPECTION REPORT.

PREP MACHINE SHAFT FOR HARD CHROME PLATING AT MECHANICAL SEAL JOURNAL.

CHROME PLATE JOURNAL THEN GRIND TO O.E.M. SPECIFICATIONS.

ASSEMBLE ALL ROTATING PARTS ON SHAFT AND PLACE IN BALANCE MACHINE.

VERIFY TOTAL INDICATOR RUN OUTS THEN DYNAMICALLY BALANCE ROTOR TO ISO G2.5.

ASSEMBLE PUMP COMPLETE WITH NEW PARTS LISTED.

PRESSURE TEST SEAL CHAMBER TO ENSURE LEAK FREE.

INSTALL NEW OIL IN SEAL CHAMBER.

PERFORM ALL ELECTRICAL TESTS AND TEST RUN.



| QUOTATION |         |        |  |  |  |
|-----------|---------|--------|--|--|--|
| DATE      | NUMBER  | PAGE   |  |  |  |
| 3/28/2022 | 0045755 | 2 of 2 |  |  |  |

#### QTY DESCRIPTION

PRESERVE AND CRATE FOR FIELD SERVICE INSTALLATION.

TOTAL REPAIR COST: \$11,495.00

THE FOLLOWING QUOTE IS FOR FIELD SERVICE REQUIRED ON YOUR ABOVE REFERENCED PUMP STATION:

FIELD SERVICE LABOR REQUIRED:

KENNEDY INDUSTRIES WILL PROVIDE (1) FIELD SERVICE TECHNICIAN(S) ONSITE TO INSTALL YOUR REPAIRED FLYGT 3127.090 PUMP, START UP, TEST RUN AND VERIFY PROPER OPERATION.

TOTAL FIELD SERVICE COST: \$1,095.00

\*

TOTAL REPAIR COST: \$11,495.00

TOTAL FIELD SERVICE COST: \$1,095.00

TOTAL COST: \$12,590.00

PLEASE PROVIDE WRITTEN OR VERBAL AUTHORIZATION SO THAT WE MAY RESPOND TO YOUR REQUIREMENTS. IF YOU HAVE ANY QUESTIONS, COMMENTS, OR ARE IN NEED OF ANY ADDITIONAL INFORMATION PLEASE FEEL FREE TO CONTACT ME AT (248) 684-1200.

SINCERELY, SARAH RAHN SRAHN@KENNEDYIND.COM

CRB

This quote is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Kennedy reserves the right to change the Terms & Conditions and Customer Warranty for future orders. By accepting this quote and/or issuing a purchase order relative to this quote, buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.

QUOTE VALID FOR 30 DAYS. CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE NO TAXES OF ANY KIND ARE INCLUDED IN THIS PROPOSAL. PAYMENT TERMS: NET 30

TOTAL:

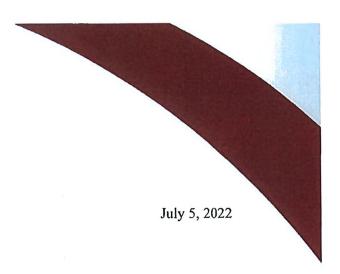
\$12,590.00

Section 3
Capital Improvement Plan

#### Howell Township Capital Improvement Plan Summary

|     | Wastewater Treatment Plant  |                  |          |  |  |  |
|-----|---|------------------|----------|--|--|--|
| No. | Project Description   | Criticality      | Cost     |  |  |  |
| 1   | Lining of Influent Channel Due to Corrosion, Causing Bypass of Screen (Need to Add Cost of Bypass | High             | \$17,250 |  |  |  |
| 1   | Pumping Headworks)  | High<br>Moderate | 717,230  |  |  |  |
| 2   | SCADA System for Plant  | Moderate         |          |  |  |  |
| 3   | UV Disinfection System Upgrade  | High             |          |  |  |  |
| 4   | Walker North Clarifier Upgrade and Coating  | High             |          |  |  |  |
| 5   | Junction Chamber and Ferric Chloride Injection Improvements                                       | High             |          |  |  |  |





M.H.O.G. 600 Chilson Rd. Howell, MI 48843

SUBJECT: Channel Lining Howell Sanitary Sewer System

Advanced Rehabilitation Technology LLC is pleased to offer the following pricing to install OBIC Liner on the Flow Channel at the Howell Sanitary Sewer System Plant in Howell, MI. Flow Channel to be lined is approx.. 650 Sq. Ft. in area.

#### **Conditions & Clarifications:**

- This quote is good for 30 days
- Pricing is for installation of the Liner System including surface preparation, average leak stoppage (up to 1 gallon of chemical grout), materials for minor concrete patching, installation and supervision.
- Requires Application Truck access within 100' of the channel to be provided.
- Off road locations may require assistance from owner for access.
- DOT Traffic Control to be provided by others if required. Our crew will supply cones for the immediate work area.
- By-pass Pumping, if required, is to be provided by others.
- Permits, Fees and Inspector Rates are not included in this quote.
- We ask that a vac-truck be supplied to remove debris after our hydro-blasting of the pump station. This will be a small amount of water and sand/stone less than ½ yard.
- Quote is based on completing structure in 1 mobilization.

# OBIC Liner Installation as Described Above: \$17,250.00

Upon agreeing to the terms we ask you acknowledge in the area below and fax to our office. Should you have any questions regarding this proposal, please feel free to call me.

| Thank you,                         |            |  |
|------------------------------------|------------|--|
| Eric Stanford                      | Signature: |  |
| Advanced Rehabilitation Technology | Name:      |  |
| 419-636-2684 Office                | P.O. #:    |  |
| 419-636-7437 Fax                   | Date:      |  |



#### **Large Station Lining Process:**

- We are generally the last ones in. Complete any mechanical work and penetrations before we arrive.
- We ask that a water supply be made available. A garden hose spigot or nearby hydrant is fine.
- When we arrive we will Hydro-Blast the interior. Sometimes this is completed by the end of the first day and sometimes it runs into the second.
- After the Hydro-Blasting is complete we ask that you have a Vac-Truck come and suck out the debris. Our crew will be able to be the ones inside the channel just send the Vac-Truck with a hose. This debris is just sand and stone from profiling the surface and is less than ½ yard. Generally the Vac-Truck is only on site for an hour or so.
- After the Flow Channel is sucked out we would dry, prime and then line it. Sometimes these are completed on the second day but please plan on 3 days for larger stations.
- The material cures in minutes and if needed, the station can be put into service an hour after completion.

# Howell Township Capital Improvement Plan Summary

|     | Collection System                                     |             |          |  |  |  |
|-----|---|-------------|----------|--|--|--|
| No. | Project Description                                   | Criticality | Cost     |  |  |  |
| 1   | Lining of Burkhart Road Pump Station (Station No. 71) | High        | \$17,250 |  |  |  |
| 2   | SCADA System for 6 Kennedy Stations                   | Moderate    |          |  |  |  |

# Cost Estimate Burkhart Pump Station 71 Lining and Repair

| Company          | Work Scope  | Price     |
|------------------|---|-----------|
| ETNA Supply      | Piping Parts for Bypass Connection                                | \$3,386   |
| TLS Construction | Excavation and Installation of Bypass Piping (T&M Est. of 1 Day - | \$6,000   |
| McCallister/CAT  | 2 - Weeks Bypass Pumping  | \$23,889  |
| CSM Mechanical   | New Piping To Inside and Outside Wetwell                          | \$44,200  |
| ART              | Obic Liner of Wetwell and Piping                                  | \$19,750  |
|                  | Subtotal  | \$97,225  |
|                  | Contingency (5%)  | \$4,861   |
|                  | Grand Total Project Estimate                                      | \$102,086 |

 Previous Quote
 \$195,759

 Savings
 \$93,673



ETNA SUPPLY - GRAND RAPIDS 4901 CLAY AVENUE SW GRAND RAPIDS, MI 49548-3038 616 241 5414 Fax 616 241 4786

QUOTE TO:

M H O G SEWER & WATER 2911 DORR RD BRIGHTON, MI 48116-9498

# Quotation

| QUOTE DATE  | QUOTE NUMBER |
|---|--------------|
| 07/14/2022  | S104647994   |
| ETNA SUPPLY   | PAGE NO.     |
| PO Box 772107<br>DETROIT, MI 48277-2107<br>P-616 248 9182<br>F-616 245 9940 | 2 of 2       |

SHIP TO:

M H O G SEWER & WATER 900 CHILSON RD HOWELL, MI 48843

| CUSTOMER NUMBER  | JOB NAM   | E / PO NUMBER   | JOB NAME / RELEASE NUM | BER  | SA                   | LESPERSON    |            |
|--|---|---|------------------------|------|----------------------|--------------|------------|
| 20331  |   |   |                        |      | Jasor                | n McClanahan |            |
| WRITER   |   | SHIP VIA  | TERMS                  | EXP  | RE DATE              | FREIGHT EXEM | PT         |
| Nate Borde   | wyk   |   | NET 25TH               | 07/  | 21/2022              | No           |            |
| ORDER QTY  |   | DESCRIPTION   | V                      | UNIT | PRICE                | EXT PRICE    |            |
| 2ea<br>2ea   | SERIES 20<br>Pn: 64822  |   |                        |      | 4.000/ea<br>2.000/ea | 88           |            |
| 200  |   |   |                        |      |                      |              |            |
|  |   |   |                        |      |                      |              |            |
| inis Quotation is controlle<br>"ETNA's Standard Terms'<br>https://www.etnasupply.cc<br>Any other terms are expre<br>conflict between any of the<br>not the face of this Quotati<br>ppearing on the face of the<br>proper in the face of the same of the<br>proper in the face of the same proper in the | nd by ETNA's sta ') found at mm/TermsandCor ssly rejected. To terms appearin on and ETNA's S ne Quotation con | ndard terms and conditions ditionsofQuotation the extent there is a g tandard Terms, the terms trol. DTEI |                        |      | Charges              | 3386         | 0.6<br>0.0 |
| AXES ARE NOT INCLUDE   | dave Drice  | отеі<br>e subject to change afte  | r 7 days               | Amou | nt Due               | 3386         | 3.0        |



#### 7825 NORTHPORT DRIVE LANSING, MI 48917 248-674-0000

| Contract No. | Date      |
|--------------|-----------|
| 4736678      | 20JUL2022 |

**COPY QUOTE** 

Page

10:05 AM

| _     |  | Da  | te out         |                | Date       | In           |  |
|-------|--|---|----------------|----------------|------------|--------------|--|
| i     | 2919181  | 01SEP2                                    | 2022 8:00      | AM             |            |              |  |
|       | GENOA-OCEOLA WATER AND SEWER A   | doI.                                      | Number         | Purchase Order |            |              |  |
|       | s 2911 DORR RD   |   | DA-OCEOLA WAT  |                | PENDING    |              |  |
|       | s BRIGHTON, MI 48116   |   |                |                | Ordered by |              |  |
|       | E <sub>.</sub>   |   | Job Location   |                |            |              |  |
|       | Phone: 810-227-5225  | PS-71 B                                   | YPASS EQUIPMEN | T, HOWELL      | GREG       | 810-224-5837 |  |
|       | Fax: 810-227-3420  | WY  | NSTEVEJ        |                | 0003       | 33           |  |
| Qty   | Equipment #  | Min                                       | Day            | Week           | 4 Week     | Amount       |  |
| 1     | MISCELLANEOUS RENTAL   | ĺ   | 1500.00        | 4500.00        | 13500.00   | 9000,00      |  |
|       | Forcemain Bypass System  |   |                |                |            |              |  |
|       | 1-6" Thompson Diesel Pump (Primary)  |   |                |                |            |              |  |
|       | 1-6" Thompson Diesel Pump (Stand-by)   | 1   |                |                |            |              |  |
|       | 3-6"x10' Bauer Suction Hose  | 1   |                |                |            |              |  |
|       | 3-6"x20' Composite Discharge Hose  |   |                |                |            |              |  |
|       | 1-6" Bauer TEE   |   |                |                |            |              |  |
|       | 2-6" Flanged TEE   | 1 1                                       |                |                |            |              |  |
|       | 1-6" Flange w/ ARV   |   | i              |                |            |              |  |
|       | 3-6" Check Valve   |   |                |                |            |              |  |
| 1     | REMOTE CALL OUT BOX  | 500.00                                    | 500.00         | 800.00         | 1800.00    | 1600.00      |  |
|       | 0750450  |   |                |                |            |              |  |
| 1     | MISCELLANEOUS RENTAL   |   | 85.00          | 595.00         | 2380.00    | 1020.00      |  |
|       | 22k Frac Tank  |   | [              |                |            |              |  |
|       | Tank will be used to collect sewage from   |   |                |                |            |              |  |
|       | force main tap. Auto-Start Floats will   |   |                |                |            |              |  |
|       | be installed to signal pumps to run and  |   | 1              |                |            |              |  |
|       | discharge to force main bypass   |   |                |                |            |              |  |
|       | connection.  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       | SALES ITEMS:   |   |                |                |            |              |  |
| Qty   | Ttem number  | Unit                                      | Price          |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   | CONTINUED      |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
|       |  |   |                |                |            |              |  |
| IMPOR | RTANT! Please note and acknowledge safety instruc<br>Initial, Lessee will provide All safety accessories as required, per safety instruc | ction by initialir<br>Hons, Initial here: | ng here:       |                | ····       |              |  |

PAYMENT: Nat-30 days from invoice date unless otherwise specified herein. A service charge will apply to all past due accounts.

RENTAL EQUIPMENT PROTECTION PLAN ("REP"): Lessee will purchase REP (terms at www.macallister.com/rep and incorporated herein by reference) if Lessee fails to obtain insurance coverage and provide MacAllister with proof of such coverage or if such insurance contains coverage amounts that are inadequate to cover the Equipment at any time.

TERMS AND CONDITIONS: The rental agreement terms and conditions found at www.macallister.com/rentaiterms ("Rental Terms") are incorporated herein by this reference and apply to your rental of Equipment from or provision of Services by MacAllister (as defined in the Rental Terms). Please read carefully. This agreement includes an indemnification clause, a jury waiver, warranty disclaimers, and limitations of MacAllister's liability. By accepting delivery of or using the Equipment or Services or making payment(s) to MacAllister for the same, Lessee agrees to be bound by the Rental Terms and REP Terms, even if this Rental Out form has not been fully executed.

ACCEPTED BY CUSTOMER

PAYMENT: Net-30 days from invoice date unless otherwise specified herein. A service charge will apply to all past due accounts.



#### 7825 NORTHPORT DRIVE LANSING, MI 48917 248-674-0000

| Contract No. | Date      |  |  |
|--------------|-----------|--|--|
| 4736678      | 20JUL2022 |  |  |

Page

2

## **COPY QUOTE**

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|          |  |         |                              |            | Date     | 7n           |
|----------|--|---------|------------------------------|------------|----------|--------------|
|          | 2919181  |         | te out                       | <u> </u>   | Dace     |              |
|          | GENOA-OCEOLA WATER AND SEWER A   | 01SEP2  | n nervejelengska iki ngjara. | AM         |          | A 1          |
|          | 2911 DORR RD   |         | Number                       |            | Purchase |              |
|          | BRIGHTON, MI 48116   | 1 - GEN | DA-OCEOLA WAT                |            | PEND     |              |
|          |  |         | Job Location                 |            | Or       | dered by     |
|          | Phone: 810-227-5225  | PS-71 B | YPASS EQUIPMEN               | NT, HOWELL | GREG     | 810-224-5837 |
|          | Fax: 810-227-3420  | WY      | NSTEVEJ                      |            | 000      | 333          |
| <u> </u> | Equipment #  | Min     | Day                          | Week       | 4 Week   | Amount       |
| Qty      |  |         |                              |            |          |              |
|          | SALES ITEMS:<br> tem number  | Unit    | Price                        |            |          |              |
| Qty      | 1.1.1  | EA      | 4000.00                      |            | 1        | 4000.00      |
| 1        | *DECON FRAC TANK DECONTAMINATION   |         |                              |            |          |              |
|          |  |         |                              |            | 1        |              |
|          | Fee is for cleaning and disinfection of  Frac Tank upon completion of project. |         |                              |            |          |              |
|          | Frac lank upon comprection of project.   |         |                              |            |          |              |
|          | SALES ITEMS:   |         |                              |            |          |              |
| Qty      | Item number  | Unit    | Price                        |            |          |              |
| 12       | MOBILIZATION   | EA      | 125.00                       |            |          | 1500.00      |
| 12       | ASSEMBLY OF RENTAL EQUIPMENT   |         |                              |            |          |              |
| 6        | DEMOBILIZATION   | EA      | 125.00                       |            |          | 750.00       |
|          | DISASSEMBLY OF RENTAL EQUIPMENT  |         |                              |            |          |              |
| 1        | ENVIRONMENTAL FEE  | EA      | 19.00                        |            |          | 19.00        |
| •        | ENVIRONMENTAL FEE  |         |                              |            | -        |              |
|          |  |         |                              |            |          |              |
|          | DELIVERY CHARGE  |         |                              |            |          | 3000.00      |
|          |  |         |                              |            |          |              |
|          | PICKUP CHARGE  |         |                              |            |          | 3000.00      |
|          |  |         |                              |            |          |              |
|          |  |         |                              |            |          |              |
|          |  |         |                              |            |          |              |
|          |  |         |                              |            |          | •            |
|          |  |         |                              |            |          |              |
| <u> </u> |  |         |                              |            |          |              |
|          |  |         | ł                            |            |          |              |
|          |  |         |                              |            |          |              |
| <b> </b> |  |         | <u> </u>                     | Sı         | ub-total | 23889.00     |
| 1        |  |         |                              |            |          |              |
|          |  |         |                              |            | Total    | 23889.00     |
|          |  |         |                              |            |          | <u> </u>     |
|          |  |         |                              |            |          |              |
|          |  |         |                              |            |          |              |

IMPORTANTI Please note and acknowledge safety instruction by initialing here: \_

By his/her Initial, Lessee will provide All safety accessories as required, per safety instructions. Initial here:

PAYMENT: Net-30 days from invoice date unless otherwise specified herein. A service charge will apply to all past due accounts.

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TERMS AND CONDITIONS: The rental agreement terms and conditions found at www.macallister.com/rentalterms" ("Rental Terms") are incorporated herein by this reference and apply to your rental of Equipment from or provision of Services by MacAllister (as defined in the Rental Terms). Please read carefully. This agreement includes an indemnification clause, a jury waiver, warranty disclaimers, and limitations of MacAllister's liability. By accepting delivery of or using the Equipment or Services or making payment(s) to MacAllister for the same, Lessee agrees to be bound by the Rental Terms and REP Terms, even if this Rental Out form has not been fully executed.

ACCEPTED BY CUSTOMER



July 11, 2022

Burkhart Road Pump Station Howell, MI

ATTENTION:

Mr. James Aulette

**Quotation No.:** 

CSM 07.11.22

SUBJECT:

**Burkhart Road Pump Station Rehab** 

**CSM Mechanical, LLC** is pleased to provide a proposal for the rehab of the Burkhart Rd. pump station in Howell Twp. pursuant to our recent site visit and meeting.

#### **OUR PROPOSAL INCLUDES:**

#### ITEM #1: Pump 1 & 2 Outlet Piping Replacement

 Provide skilled labor, equipment, and material necessary to excavate, remove, and replace the damaged pump piping at the Burkhart Rd. pump station in Howell, Michigan

Provide excavation roughly 6-8' below grade to access the damaged / leaking pump 1 & 2

outlet piping

 Provide saw cutting outside of manhole chamber and removal of all ductile iron piping and fittings back to the pump outlet flanges

- Provide procurement and installation of new 6" ductile iron MJ fittings (to connect to existing
  pipe outside of the manhole chamber), 6" ductile iron piping, and ductile iron fittings
- Backfill excavated hole with existing spoils
- NOTE: All bypass pumping, and dewatering to be handled by customer
- Provide jobsite supervision, confined space entry and degress, and removal of debris

#### ITEM #2: Wet Well Inlet Piping Modifications

- Provide skilled labor, equipment, and material necessary to modify the inlet piping to allow for proper discharge near the water level of the wet well at the Burkhart Rd. pump station in Howell, Michigan
  - Provide excavation roughly 6-8' below grade to access the damaged / leaking pump 1 & 2 outlet piping
  - Utilize Sch. 80 CPVC pipe and fittings to bring the inlet piping down within the wet-well
  - Backfill excavated hole with existing spoils
  - NOTE: All bypass pumping, and dewatering to be handled by customer
  - Provide jobsite supervision, confined space entry and degress, and removal of debris

#### OUR PRICE TO PROVIDE ALL THE ITEMS ABOVE IS:

\$44,200.00

#### NOTE: This proposal is based on STRAIGHT-TIME working hours

This proposal is based on LUMP SUM billing practices with payment terms of Net (30) days per occurrence

This proposal is based on straight time working hours, Monday through Friday, 7:00 am until 3:30 pm. This 7400 Hickory Valley Drive ● Fenton, MI 48430 ● Phone (248) 302-2078 ● Fax (517) 540-9704



quotation is valid for thirty (30) days.

The proposed work will begin upon receipt of signed proposal. If you have any further questions regarding the above proposal, please do not hesitate to contact our office at your earliest convenience.

Respectfully, CSM Mechanical, LLC

Logan H. Mortz



July 5, 2022

M.H.O.G. 900 Chilson Rd. Howell, MI 48843

#### SUBJECT: N. Burkhart Rd Wet Well

Advanced Rehabilitation Technology LLC is pleased to offer the following pricing to install the OBIC Armor Multi-Layer Liner System into 1 Wet Well in Howell, MI Wet Well is approximately 8' x 32'.

#### Conditions & Clarifications:

- This quote is good for 30 days
- Pricing is for installation of the Multi-Layer Liner System including surface preparation, average leak stoppage (up
  to 1 gallon of chemical grout), materials for minor concrete patching, installation and supervision.
- Requires Application Truck access within 100' of the pump station to be provided.
- Off road locations may require assistance from owner for access.
- DOT Traffic Control to be provided by others if required. Our crew will supply cones for the immediate work area.
- By-pass Pumping, if required, is to be provided by others.
- Permits, Fees and Inspector Rates are not included in this quote.
- We ask that a vac-truck be supplied to remove debris after our hydro-blasting of the pump station. This will be a small amount of water and sand/stone less than ½ yard.
- Quote is based on completing structure in 1 mobilization.

# **OBIC Liner System Installation As Described Above: \$19,750.00**

# The OBIC Liner System Has a 10 Year Limited Warranty.

Upon agreeing to the terms we ask you acknowledge in the area below and fax to our office. Should you have any questions regarding this proposal, please feel free to call me.

| Thank you,                         |            |  |
|------------------------------------|------------|--|
| Eric Stanford                      | Signature: |  |
| Advanced Rehabilitation Technology | Name:      |  |
| 419-636-2684 Office                | P.O. #:    |  |
| 419-636-7437 Fax                   | Date:      |  |
|                                    |            |  |



#### **Large Station Lining Process:**

- We are generally the last ones in. Complete any mechanical work and penetrations before we arrive. Have the rails and pumps installed.
- We ask that a water supply be made available. A garden hose spigot or nearby hydrant is fine.
- When we arrive we will set up scaffold and Hydro-Blast the interior. Sometimes this is completed by the end of the first day and sometimes it runs into the second.
- After the Hydro-Blasting is complete we ask that you have a Vac-Truck come and suck out the debris. Our crew will be able to be the ones inside the wet well just send the Vac-Truck with a hose. This debris is just sand and stone from profiling the surface and is less than ½ yard. Generally the Vac-Truck is only on site for an hour or so.
- After the Wet Well is sucked out we would dry, prime and then line it. Sometimes these are completed on the second day but please plan on 3 days for larger stations.
- The material cures in minutes and if needed, the station can be put into service an hour after completion.



JOB NAME



SIGNATURE

SUBMITTED TO

#### J.K of Michigan 3201 W. Michigan Ave. Jackson, MI 49202 (517)321-4486 Fax (517)783-1874

# **WORK PROPOSAL**

PROPOSAL#

1

DATE

5/12/2022

PREPARED BY

**Bryce** 

**CONTACT PERSON** 

| Clean station, remove existing discharge.  Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel discharge supports, re-support guide rail bracket, Install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware.  Resurface & line station walls & coat piping.  Remove discharge underground between wet well & valve vault.  Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault:  \$ 26,  Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install:  \$ 21,  Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.   | The same of the sa |   | the second of th | the second secon |              |
|--|--|---|--|--|--------------|
| 1222 Packard Drive Howell, MI 48843    Lift station  |  |   | NAME   | Jason  | Hall         |
| WORK TO BE PERFORMED PAYMENT TERMS  Rehab & Update Lift Station With Ductile NET 30  DESCRIPTION  Wet Well: \$ 104,1  Clean station, remove existing discharge. Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel discharge supports, resupport guide rail bracket, install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware.  Resurface & line station walls & coat piping.  Remove discharge underground between wet well & valve vault.  Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault: \$ 26,  Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install: \$ 21,  Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station: \$ 42,  Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention | ***************************************  |   |  | (810)-624  | 1-9656       |
| WORK TO BE PERFORMED PAYMENT TERMS  Rehab & Update Lift Station With Ductile NET 30  DESCRIPTION  Wet Well: \$ 104,i Clean station, remove existing discharge. Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel discharge supports, re-support guide rall bracket, install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware. Resurface & line station walls & coat piping. Remove discharge underground between wet well & valve vault. Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault: \$ 26, Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install: \$ 21, Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station: \$ 42, Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention       | Howell, MI 48843   |   |  |  |              |
| Rehab & Update Lift Station With Ductile  DESCRIPTION  Wet Well: \$ 104,6  Clean station, remove existing discharge. Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel discharge supports, re-support guide rall bracket, install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware. Resurface & line station walls & coat piping.  Remove discharge underground between wet well & valve vault.  Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault:  Valve Vault:  \$ 26,  Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install:  \$ 21,  Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station:  \$ 42,  Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention                           |  |   | EMAIL  | jason.hall@inf   | ramark.com   |
| DESCRIPTION  Wet Well: \$ 104, Clean station, remove existing discharge. Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel discharge supports, re-support guide rail bracket, install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware. Resurface & line station walls & coat piping. Remove discharge underground between wet well & valve vault. Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault:  \$ 26, Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install:  Bypass Install:  \$ 21, Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station:  \$ 42, Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention   | WOR  | K TO BE PERFORMED   | PAYM   | ENT TERMS  |              |
| Wet Well:  Clean station, remove existing discharge.  Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel lischarge supports, re-support guide rail bracket, install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware.  Resurface & line station walls & coat piping.  Remove discharge underground between wet well & valve vault.  Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault:  Valve Vault:  \$ 26,  Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install:  \$ 21,  Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station:  \$ 42,  Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention   | Rehab & Upo  | date Lift Station With Ductile  |  | IET 30   |              |
| Clean station, remove existing discharge.  Install new Ductile discharge piping, mega flanges, uni flanges, solid sleeves, 90's, stainless steel discharge supports, re-support guide rail bracket, Install new SCH 80 drop tee & pipe on pressure main with stainless steel supports, install new wet well vent & filter. All with stainless steel hardware.  Resurface & line station walls & coat piping.  Remove discharge underground between wet well & valve vault.  Install new Ductile discharge, solid sleves, mega flanges from wet well to valve vault.  Valve Vault:  Valve Vault:  \$ 26,  Remove existing flow meter, pipe stands, spool pieces & replace with Ductile spool pieces, uni flanges, pipe stands, with stainless steel hardware, install new flow meter & remote transmitter. Seal all leaks on vault floor, coat piping & plug drain pipe into wet well.  Bypass Install:  \$ 21,  Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station:  \$ 42,  Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention  | 9014357 Carl (1914)  | DESCRIPTION   | renewater in   |  | The state of |
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| Dig up force main coming into wet well & install shut off valves, valve boxes & risers, bypass connection.  Bypassing station:  Set up bypass pump with fraq tank, monitor bypass & service all alarms.  Some parts may have up to 8 week lead time.  Anything found over and above the scope of work on the quote will be brought to the owner's attention  | pipe stands, with stainless steel h  | stands, spool pieces & replace with Ductile ardware, install new flow meter & remote tr |  | ni flanges,  | 20,100.0     |
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| Anything found over and above the scope of work on the quote will be brought to the owner's attention  | Set up bypass pump with fraq tan   | k, monitor bypass & service all alarms.   | 4,   |  |              |
| Anything found over and above the scope of work on the quote will be brought to the owner's attention  |  |   | ,  |  |              |
|  | Some parts may have up to 8 wee  | ek lead time.   |  |  |              |
|  | and repaired at an additional cost   | •   | ght to the owner's   | attention  |              |
| TO ACCEPT THIS QUOTATION SIGN HERE AND RETURN  | TO ACCEPT THIS QUOTATION   | SIGN HERE AND RETURN  |  |  |              |
| TOTAL   \$ 195,758   |  |   | TOTAL  | \$ 195.  | 758.80       |

DATE SIGNED

# HOWELL TOWNSHIP ENGINEERING STANDARDS

June 2022

Accepted by Township Board:

Howell Township Hall 3525 Byron Road Howell, MI 48855

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# GENERAL PLAN SUBMITTAL REQUIREMENTS AND PROCEDURES

#### **PURPOSE**

It is the purpose of this Section to specify standards and data requirements, which shall be followed in the preparation of the site plans. It is also the purpose of this Section to ensure that:

- 1. The proposed use will not be injurious to the surrounding neighborhood and protects the general health, safety, welfare, and character of the Township.
- 2. Natural resources will be preserved to the maximum extent possible in the site design by developing in a manner which will not detrimentally affect or destroy natural features such as lakes, ponds, streams, wetlands, steep slopes, soils, ground water, and woodlands; and
- 3. Landscaping, including grass, trees, shrubs, and other vegetation is provided to maintain and improve the aesthetic quality of the site and area.

#### **DEFINITIONS**

AASHTO - The American Association of State Highway and Transportation Officials is a standard setting body which publishes specifications, test protocols, and guidelines that are used in highway design and construction throughout the United States.

Frontage - The distance between the two side lot lines of a lot or parcel of land, as measured between the two points at which the two side lot lines each intersect the right-of-way, dedicated easement or minimum building setback line.

HDPE - High Density Polyethylene

Manning's Equation - An empirical formula estimating the average velocity of a liquid flowing in a conduit with open channel flow.

NAD83 - A unified horizontal or geometric datum and successor to NAD27 providing a spatial reference for Canada and the United States.

NGVD88 - The vertical datum for orthometric heights established for vertical control surveying in the United States of America.

PVC - Polyvinyl chloride

RCP - Reinforced Concrete Pipe

**Engineering Standards** Howell Township

<u>Setbacks</u> – The minimum distance which a building or structure must be set back from a property line, road, river, shore, floodplain, or any other place which is deemed to need protection.

<u>Siphons</u> - A tube bent to form two legs of unequal length by which a liquid can be transferred to a lower level over an intermediate elevation by the pressure of the atmosphere in forcing the liquid up the shorter branch of the tube immersed in it while the excess of weight of the liquid in the longer branch when once filled causes a continuous flow

### CONSTRUCTION PLAN SUBMITTAL PROCEDURES

- 1. Following approval of the preliminary and final site plans by the Township, the applicant shall submit to the Zoning Administrator two (2) copies of construction plans and a PDF file of the construction plans, as well as any other data and exhibits hereinafter required, the review fee, and a completed application form. After the initial submittal, subsequent revisions can be sent directly to the Township Engineer.
- 2. The construction plans shall address the same concerns as the final site plan but shall include much greater detail in accordance with the adopted Howell Township Engineering Standards. Approval of the construction plans is required prior to beginning construction.
- 3. As part of the review process, the Township Engineer may contact the Township, Fire Department, or other regulatory agencies for comments and feedback. If other agencies (MDOT, EGLE, LCRC, LCDC, etc.) have not completed their reviews, the Township Engineer may request that their comments be supplied to the Township Engineer prior to final approvals. In general, the following agencies shall have review authority over the type of improvement:
  - a) Howell Township
    - i. Sanitary sewer and appurtenances
    - ii. Public and Private water distribution system and appurtenances
    - iii. Private storm sewer and appurtenances
    - iv. Stormwater management (detention, retention, etc.)
    - v. Private roads and paved areas
    - vi. Pathways and sidewalks
    - vii. Grading and restoration
    - viii. Any other improvements not regulated by another agency
  - b) Livingston County Road Commission (LCRC)
    - i. Public roads, streets, and right-of-ways
  - c) Livingston County Drain Commissioner (LCDC)
    - i. Public and private storm sewer and appurtenances
    - ii. Stormwater management (detention, retention, etc.)
    - iii. Soil Erosion Control
  - d) Livingston County Department of Public Health
    - i. Private septic fields
    - ii. Private water wells
  - e) Marion Howell Oceola Genoa Water Authority (MHOG)
    - i. Public water distribution system and appurtenances
- 4. When plans are complete and ready for approval the Township Engineer will request additional sets of plans be submitted for distribution to EGLE for sanitary sewer permitting (see item 7 in this Section).

5. The applicant shall be responsible for submitting directly to the LCRC, LCDC, MHOG, and other separate regulatory agencies (MDOT, EGLE for wetland permitting, etc.). Any such approvals shall be forwarded to the Township Zoning Administrator and the Township Engineer prior to beginning construction.

6. All public improvement plans submitted for permits must carry the seal and signature of the Design Engineer licensed in the State of Michigan. Note that the amount and type of sanitary and/or water main pipe must be summarized on the cover sheet when EGLE permitting is

required.

7. Sanitary sewer plans along with a completed Basis of Design and EGLE Sanitary Sewer Permit Part 41 Application, shall be provided to the Township Engineer. The Township Engineer will have the Township execute the permit application and then submit application and plans to the

EGLE for permitting.

8. **Modification of Plan During Construction** - All improvements shall conform to the final site plan. It shall be the responsibility of the applicant to notify the Zoning Administrator of any such changes prior to such change being made. Any changes which result in a material alteration of the approved final site plan shall require resubmittal of a site plan, which shows the proposed changes, to the Planning Commission including any fees determined by the Township Board of Trustees. The Planning Commission or Township Board of Trustees may require the applicant to correct the changes so as to conform to the approved final site plan.

9. **Phasing of Development -** The applicant may, at their discretion, divide the proposed development into two (2) or more phases. In such case, the preliminary site plan shall cover the entire property involved and shall clearly indicate the location, size, and character of each phase. A site plan for each phase shall be submitted in accordance with the procedure herein for a final

site plan including any fees required.

10. Appeals - No decision or condition related to a construction plan approval shall be taken to the

Zoning Board of Appeals.

11. **Fees -** The Howell Township Board shall establish by resolution a fee schedule to defray costs, which may include but not be limited to plan review, administration, inspection, and enforcement of this section. Before final approval, any costs incurred by the Township shall be paid by the applicant. Please refer to the Howell Township Wastewater Ordinance for more information regarding applicable fees.

#### **INSURANCE**

1. Prior to construction, the Contractor shall procure and maintain, during the term of the project, public liability and property damage insurance with a responsible insurance company which meets the approval of Howell Township, in such amounts as will be adequate to protect the public, Howell Township interests, and shall not be less than the limits set forth herein.

#### TYPE OF INSURANCE:

a. Workmen's Compensation Insurance and Employer's Liability Limit: As required by laws of State of Michigan

Public Liability & Property Damage:

Bodily Injury:

Each Occurrence:

\$1,000,000

Aggregate:

\$2,000,000

Property Damage:

Each Occurrence:

\$1,000,000

Aggregate:

\$2,000,000

b. Owner's and Contractor's Protective Liability & Property Damage:

Bodily Injury:

Each Occurrence:

\$1,000,000

Aggregate:

\$2,000,000

Property Damage:

Each Occurrence:

\$1,000,000

Aggregate:

\$2,000,000

Motor Vehicle (including Owner, Hired and Non-Owned Vehicles):

**Bodily Injury:** 

Each Occurrence:

\$1,000,000

Property Damage:

Each Occurrence:

\$1,000,000

Combined Single Limit:

\$2,000,000

2. Policies shall be made available to Howell Township and the Township Engineer for examination as to their validity and any undesirable exclusions deemed improper by legal opinion rendered to the Township regarding same. Underground construction, where applicable, shall be specified in the coverage. Certificates of coverage signed by the insurance carriers shall include a guarantee that 30 days written notice shall be given by the insurance carrier to Howell Township prior to cancellation of, or any change in the respective policies. In the event that the insurance is canceled, operations shall cease prior to the cancellation date and shall not resume until evidence is provided that proper insurance is again in effect. Additional Named Insured under Owners and Contractors Protective Public Liability and Property Damage Insurance shall include Howell Township, the Township Engineer (specifically by name) and members of staff, employees and agents for the Township.

3. The name of the proposed development must be included on the insurance documents.

#### **CONSTRUCTION OBSERVATION PROCEDURES**

Howell Township or their designated representative will provide observation on all proposed public utilities and improvements, as well as limited construction observation of private improvements. Any facilities installed without Township provided observation may not be accepted by the Township, and therefore may be required to be re-installed. The requirements and procedures for Construction Observation and final project closure shall be as follows.

- 1. Pre-Construction Meeting
  - a) Upon construction plan approval and receipt of all permits, but prior to commencing construction, a pre-construction meeting shall be held. The Developer or the Developer's Authorized Representative shall contact the Township Engineer to schedule the pre-construction meeting.
  - b) Attendees shall include: Township representatives, Township Engineer, Marion Howell Oceola and Genoa (MHOG) Water Authority representative, Developer or Developer's Authorized Representative, Design Engineer, Underground and Paving Contractors, and any interested regulatory agency.
  - c) At the pre-construction meeting, the following information shall be provided:
    - i. Proof of insurance naming Howell Township and its Engineer as additionally insured.
    - ii. All permits from other agencies (MDOT, EGLE, LCRC, MHOG, etc.).
    - iii. Approximate schedule for construction.

- d) Prior to the pre-construction meeting, the contractor shall provide the inspection escrow to the Township. Proof of payment should be forwarded to the Township Engineer. The final approval letter from the Township Engineer will detail the amounts and basis of the escrow based upon industry standard production rates.
  - i. Unused observation and administration escrow funds will be eligible for return as described in the final approval letter.
  - ii. The Township Engineer shall monitor the observation escrow and may require additional deposits. This shall be dependent on the contractor's rate of progress and the difficulty in completing the project.
  - iii. Failure to keep the observation escrow current may result in withholding construction observation, and therefore possibly delaying construction.

#### 2. Notice of Construction

- a. The Township Engineer shall have a minimum 72-hour notice (not including weekends or holidays) prior to the start of any construction requiring observation.
- 3. Construction Inspection
  - a. The Township's Engineer shall observe all public and private sanitary improvements. Full time inspection will be provided by the Township's Engineer. The Township's Engineer may inspect all other operations requested by the Township.
- 4. Sanitary Sewer Testing
  - a. Sanitary sewer will be required to undergo testing 30 days after the completion of construction. Developer/contractor are responsible for arranging and paying for all tests seen below. Township Engineer must witness all tests.
    - i. Pressure Testing
      - 1. The contractor shall conduct a sanitary air test with the Township Engineer witnessing. Air tests shall comply with current testing standards and requirements. Air testing should not be used if the groundwater level is 2 feet or more above the top-of-pipe at the upstream end (reference ASTM F1417)
    - ii. Deflection Testing
      - 1. The contactor shall conduct a deflection test with the Township Engineer witnessing. The test shall take place a minimum of 30 days after backfill has been installed, but not longer than 12 months after installation. Deflection tests shall comply with current testing standards and requirements.
    - iii. TV Testing
  - b. If the sanitary sewer fails to pass any of the above test, the failed portion must be repaired or replaced at the discretion of the Township Engineer.
- 5. Acceptance of final project:
  - a) After the project is substantially complete, including paving, the Township Engineer will perform a site walkthrough and generate a punch list. Once the items have been addressed, the Township and the Township's Engineer will conduct a final site inspection.
  - b) All punch list items must be addressed.
  - c) All fees and escrows must be paid in full.
  - d) Record drawings and related documents must be provided to the Township:
    - i. Upon acceptance of field improvements, the Township Engineer will provide the Developer's Engineer with a copy of Inspector's Daily Reports and any applicable lead reports. The Developer's Engineer will update the drawings using these materials and any of their own notes and submit these to the Township's Engineer for review and approval.

A grading certificate will be required at this time. This form (provided by the Township's Engineer with IDR's) will also need to be signed and sealed by the Developer's Engineer licensed in the State of Michigan and then submitted to the Township's Engineer along with the record drawings.

Easements for public utilities based on "As-Built" conditions requires a sketch iii. and legal description to be submitted by the Developer's Engineer to the Township's Engineer for review and approval along with the record drawings. Once easements documents are approved, the Township's Engineer will mail the Developer/Township the easements to be recorded with the County Register of Deeds. Once the easements are recorded with liber and page number, recorded copies will need to be forwarded to the Township and the Township's Engineer.

Once the record drawings are approved by the Township's Engineer, the iv. Developer's Engineer will be instructed as to what is required for final

distribution (i.e. CAD files, mylars, etc)

e) Performance guarantee will be released after all the above items have been completed.

#### CONSTRUCTION PLAN REQUIREMENTS

The following is a list of requirements that shall be used to assist in Construction Drawing and Record Drawing preparation. Items or criteria not specifically on this list or contained within the Howell Township Zoning Ordinance shall be subject to Township approval, based solely on the Township's discretion as to appropriate standards, regulations, or local impact.

#### PLAN REQUIREMENTS

#### **GENERAL**

1. Plan paper shall be 24" x 36".

2. Plan scale shall be a maximum horizontal scale of 1"=50' and vertical scale of 1"=5'.

3. Plan cover sheet shall include the following: project name, name of Howell Township, Livingston County, Michigan, proprietor's, engineer's, architect's and landscape architect's name, address, phone and fax number, a location map (1" = 2000' scale) with north arrow, parcel ID number(s), agency approvals required, plan sheet index, and professional architect's or engineer's seal Licensed in the State of Michigan.

4. A title block shall be present on each plan sheet.

- 5. The legal description for the property shall be included, must also be represented by bearing angles and distances in plan view, and shall have a ratio of closure no greater than 1 part in 5000.
- 6. Zoning information including zoning designation, land use, minimum lot area, frontage, and setbacks; and maximum lot coverage and building height requirements for the site's zoning designation.

7. A topographic survey plan sheet shall be included; additional requirements are outlined in Section II, Topographical Survey, of this document.

- 8. A general area plan shall be included at 1" =100' or 1" =200' when size of the site prohibits a single sheet. The general plan shall show existing and proposed roadways, site location, dimensions, utilities, building structures, landscaping, and topography.
- 9. A landscaping plan with tree survey information shall be included.
- 10. Location of wetlands, drainage courses, and floodplain areas shall be shown on the plans.
- 11. On and offsite permanent and temporary easements shall be shown on the plans.
- 12. Private and public roadways, road right-of-way, and road easements shall be shown on the plans.
- 13. Dimensions for existing and proposed road right-of-way and/or easements, roadways, parking areas, driveways, sidewalks, and pathways shall be shown on the plans and shall be in accordance with the Howell Township Zoning Ordinance and the requirements outlined herein.

### TOPOGRAPHICAL SURVEY

#### GENERAL

- 1. A complete topographical survey is required for all sites. Existing offsite elevations must be given at a minimum of 100' abutting the entire perimeter of the site. Onsite contours are required to establish the existing site drainage. Contours shall be at the following spacing:
  - a) 1-foot contours if scale of plan is less than or equal to 1" = 50'
  - b) 2-foot contours if scale of plan is greater than 1" = 50'
- 2. A minimum of two (2) benchmarks based on NAD83 or NGVD88 must be included. The datum shall be clearly referenced.
- 3. Property lines shall be indicated by bearing and distance.

- 4. All existing conditions shall be shown, including but not limited to the following items (location and elevation):
  - a) All utilities including sanitary, water main, gas, telephone, cable, and electrical (including rim and invert elevations).
  - b) Property lines.
  - c) The building finished floor.
  - d) Sidewalks and pathways.
  - e) Retaining walls.
  - f) Finished grades of all adjacent buildings.
  - g) All easements.
  - h) 100-year flood plain.
  - i) Existing drainage courses and wetlands.
  - j) Upstream and downstream culverts.
  - k) Adjoining road right-of-way.
- 5. Road Topography shall extend across the entire site with grades shown on both sides of the street for:
  - a) Property line.
  - b) Ditch centerline and top of bank.
  - c) Edge of shoulder.
  - d) Edge of pavement or top of curb.
  - e) Crown or centerline.

#### **UTILITIES (GENERAL)**

#### GENERAL

- 1. The location, size, and type of pipe of all existing and proposed utilities shall be shown in plan view.
- 2. Proposed sanitary sewer shall extend across the property frontage(s) or to a property line, as directed by the Township.
- 3. No new utilities shall be placed below or within a 1:1 influence of a building footprint. The limits of all removals and/or abandonments shall be shown on the plans. The following criteria shall apply for all existing utilities within the influence of a building foundation:
  - a) Utilities within five (5) or less below a footing shall be removed.
  - b) Utilities greater than five (5) feet below a footing shall be grouted full using a standpipe to prevent air voids.
  - c) Utilities that are to be abandoned and are not within the influence of a footing shall be bulkhead unless the utility is determined to be a hazard, nuisance or potential maintenance problem by the Township.
- 4. A minimum ten (10) feet wide horizontal separation shall be required between water main and sewers
- 5. No sanitary sewer shall be within five (5) feet (measured horizontally) from the high-water elevation of a detention, retention, and/or forebay basin.
- 6. All utility crossings, including sanitary sewer leads, shall specify top and bottom of pipe elevations in both plan and profile view. An 18" minimum vertical clearance between water main and sanitary sewer is required.
- 7. Sewer and storm mains shall maintain at least 18" minimum vertical clearance. If this cannot be achieved, a concrete cradle must be installed.
- 8. A casing pipe shall be provided when utilities must cross retaining walls or when a bore is proposed under a roadway. The casing pipe must extend beyond the angle of repose of the retaining wall or roadway. The size, length and invert of the casing pipe shall be indicated. All

bores under roadways shall meet the requirements of the Livingston County Road Commission Requirements.

#### SANITARY SEWER

#### **GENERAL**

- 1. Follow Howell Township Standard Sanitary Details and Howell Township Sewer Ordinance 21 Wastewater Collection and Treatment System.
- 2. Follow Recommended Standards for Waterwater Facilities (10 States Standards).
- 3. The following must be shown in plan view for sanitary and storm sewer:
  - a) Length, size, type, and class of pipe between structures.
  - b) Top of casting elevation at structures.
  - c) Easement width. Minimum width for sanitary sewer is 25', however a wider easement maybe required based on the depth of the sewer.
  - d) Progressive numbering system for all structures.
- 4. The following must be shown in profile view for sanitary and storm sewer:
  - a) Length, size, type, class, and slope of pipe between structures.
  - b) Size and type of structure.
  - c) Top of casting and sewer invert elevations at structures.
  - d) Existing and proposed ground elevations.
  - e) Utility crossings, including top and bottom of pipe elevations.
  - f) Special backfill areas under or within pavement areas.
  - g) Progressive numbering system for all structures.
- 5. A quantity list and design data (on the cover sheet or first sheet of the plans) shall be provided and be in accordance with the current 10 States Standards.
- 6. Lift stations will not be permitted unless there is no other alternative for sewer service. If a lift station is required, the Design Engineer shall provide the Township with all design details and calculations within flow range, which shall be in accordance with all current Township, County and State requirements.
- 7. Siphons shall only be allowed when specifically approved by the Township and Township Engineer.

#### **SEWER**

1. Sanitary sewer size, grade, and structure spacing table:

| Size          | Min. Grade (%) | Max. Grade (%) | Max Spacing (ft) |
|---------------|----------------|----------------|------------------|
| 8"*           | 0.40           | 10             | 400              |
| 10"           | 0.28           | 6.2            | 400              |
| 12"           | 0.22           | 6.0            | 400              |
| 15"           | 0.15           | 3.6            | 400              |
| 18"           | 0.12           | 2.8            | 400              |
| 21" & greater | 0.10           | 2.2            | 400              |

\*minimum allowable sanitary sewer size is 8"

- 2. Where Manning's equation is used to compute flow, a minimum value for "n", roughness coefficient shall be 0.013.
- 3. A minimum cover of 5' is required over all sanitary sewers, including leads.

4. A minimum 25' wide easement is required for all public sanitary sewer. Wider easements will be required for deeper sewer to maintain a 1:1 excavated side slope within the easement. The sanitary sewer shall be centered within the public easement. No buildings should be located within the easement.

#### **MANHOLES**

#### General

1. All pipe connections at structures shall be separated by a minimum of one (1) foot between pipe walls and 40% of the structure circumference must remain intact. The design engineer shall provide details for all structures with multiple pipe connections not meeting the requirements below:

| Structure<br>Diameter | Max. Pipe Size for Straight Through Installation | Max. Pipe Size for Right<br>Angle Installation |
|-----------------------|--|--|
| 48"                   | 24"  | 18"  |
| 60"                   | 36"  | 24"  |
| 72"                   | 42"  | 36"  |
| 96"                   | 60"  | 42"  |

- 2. The Township Engineer will inspect all sanitary taps into existing Township structures.
- 3. When there is a change in direction in a sewer at a manhole, an allowance of 0.10 feet in grade shall be made for a loss of head through the manhole.
- 4. Whenever there is a change in pipe size, the inverts of both sewers shall be set at a grade so that both sewers maintain the same energy gradient.

#### **Drop Connections**

- 1. External drop connections are required when there is an 18" vertical difference between inverts on the outlet and inlet pipes and shall be constructed according to Standard Details.
- 2. The Township must approval internal drop connections. The connection shall be based on field conditions an in accordance with standard details.

#### SERVICE LEADS

#### General

- 1. The Township will own sanitary lead within the ROW or easement. The property owner will own the lead outside the ROW or easement and will be responsible for maintenance of this portion of the lead.
- 2. A cleanout should be provided at the ROW and at every change of direction of the lead.
- 3. The building lead location, size, type, and slope (minimum 6" diameter and 1% per Ordinance 21, Section 5) shall be provided. In order to verify the slope of the lead, invert elevations shall be provided at the finished grade of the building and at the connection to the mainline sanitary sewer. The 6" lead shall extend all the way to the building.
- 4. In sanitary sewers where construction of building leads to the property line is not required, a wye branch shall be installed for sewer for 14' or shallower and a tee installed for sewer that is deeper than 14' for each lot or potential building site.

5. Leads shall not be connected to manholes unless specifically approved by the Township for connection to the last manhole or connection to deep sewer. An exterior drop connection will be required at connections to manholes.

#### **Grinder Pump Connections**

1. Grinder pump connection should connect to manhole where possible.

2. Grinder pumps may be connected to gravity sewer directly with a gravity lead with a cleanout located at the Right-of-Way line.

3. Manholes with grinder pump connection must be lined with interior corrosion protection.

#### Grease Interceptor

1. Grease interceptor shall be provided for all food service facilities and any facilities with a commercial kitchen, as required by the Planning Commission.

2. Grease interceptor shall be connected to all food service drains which include mop sinks, dishwashers, food prop sinks, and floor drains. Non-food wastewater shall not pass through the grease interceptor and be connected downstream of the grease interceptor.

3. A cleanout shall be provided after the grease interceptor.

4. Grease interceptors shall be located outside the building, outside of the ROW or easement, and underground.

5. The minimum size for grease interceptors is 1,000 gallons.

6. A maintenance schedule shall be provided.

#### Industrial/Manufacturing Sites

1. Oil water separators should be provided all industrial/manufacturing sites and as required by the Township Engineer.

2. A manhole shall be provided at the ROW instead of cleanout for inspection and sample collection purposes.

#### **PUBLIC PUMP STATIONS**

#### GENERAL

- 1. Pump stations should be designed in accordance to:
  - a. Recommended Standards for Wastewater Facilities (Ten State Standards)
  - b. Howell Township Standard Pump Station Drawings and Specifications
  - c. Howell Township Sewer Ordinance 21 Wastewater Collection and Treatment System.

2. Pump stations may be designed by Howell Township Engineer, if requested.

3. Each station's configuration shall be dependent on the proposed flow rate, based on the chart below. Final configuration to be approved by Howell Township.

| Peak Flow (GPM) | Pumps       | Discharge Piping Size | Configuration  |
|-----------------|-------------|-----------------------|--|
| 10-90           | Submersible | 2"-3"                 | Aboveground controls/<br>below ground Valve<br>Vault |
| 80-600          | Submersible | 4" – 6"               | Aboveground Hut                                      |
| >250            | Submersible | ≥ 4"                  | Aboveground Building                                 |

4. Wet well shall be appropriately sized for all future flows.

- 5. Buoyancy calculations and necessary ballast concrete for Wet well and valve vault (where applicable) must be included.
- 6. All pump stations shall be equipped with a flow meter.
- 7. Five-year warranty should be supplied from the time of start up.
- 8. All cabinetry, hatches, and other devices requiring locks shall be locked with a keyed pad lock.
- 9. Bollards, fences, and concrete pads may be required per discretion of Howell Township, depending on site location, and proximity to road.
- 10. A bypass connection shall be supplied with connect to match Howell Township pumps.
- 11. Aboveground shelters facade shall be approved by Howell Township.

#### CONTROLS

- 1. Primary Level Control Method: Submersible Pressure Transducer.
  - a. Power: 24 VDC, 4-20mA
  - b. Range: 0 to 10 PSI.
    - i. Scale: 0 to 23.1 Feet.
- 2. Backup Level Control Method: Float Switch Array.
  - a. High Level Alarm / Pumps Start
  - b. Low Level Alarm / Pumps Stop
- 3. Each pump shall be provided with a Hand-Off-Auto selector switch.
  - a. The "Hand" position provides Township personnel to operate each pump manually, regardless of other pump station conditions (sensor failures, alarms, etc.).
  - b. The "Off" position prevents starting of pumps due to pump station conditions.
  - c. The "Auto" position allows the pumps to operate in Automatic mode, which shall be a lead/lag method.
- 4. While in "Auto" mode pumps shall operate as follows:
  - a. When liquid level in wet well rises to elevation of "lead pump start" setpoint, start lead pump. When lead pump is started, run pump until liquid level in wet well is drawn down to "lead pump stop" setpoint, and then shut down lead pump.
  - b. When lead pump cannot keep up with influent flow, liquid level in wet well rises to "lag pump start" setpoint that starts lag pump. When lag pump is started, run pump until liquid level in wet well is pumped down to "lag pump stop" setpoint and shut down lag pump. Lead pump shall continue to run until wet well is drawn down to "lead pump stop" setpoint.
  - c. Automatically alternate lead and lag status of pumps after each pumping cycle (lead pump shutdown upon reaching "lead pump stop" setpoint).
- 5. When liquid level in wet well rises to elevation of the "wet well high level" float switch start lead pump, after an adjustable time delay start the lag pump, energize the "Wet Well High Level" alarm relay and light located on pump control panel, and activate the secondary control method. The secondary controls shall remain active until reset by pressing the "Alarm Reset" button.
- 6. When liquid level in wet well is pumped down to elevation of "wet well low level" float switch, shut down pumps and energize "Wet Well Low Level" alarm relay and light located on pump control panel.
- 7. Pumps shall be equipped with high temperature and seal leak detectors that shall shut down the pumps and alert Township personnel.
- 8. The following information, at a minimum, shall be made available via the township's remote monitoring and alarming system. These signals shall be wired to a dedicated terminal strip in the control panel, for wiring to alarming/monitoring device.
  - a. Power Failure / Phase Monitor.
  - b. Pump No. 1 Motor High Temperature/Seal Failure.

- c. Pump No. 2 Motor High Temperature/Seal Failure.
- d. High Wet Well Level.
- e. Wet Well Low Level.
- f. Pump No. 1 Running.
- g. Pump No. 2 Running.
- h. Wet Well Level.
- i. Flow Rate.
- j. Flow Totalizer.
- 9. Substituting operator interface devices such as indicator lights, elapsed time meters, pushbuttons, and selector switches with objects on a graphical interface (ie. Touchscreen or computer screen) shall only be allowed when given prior approval by the Township.

#### **GENERATOR**

- 1. An onsite Standby Generator shall be required at all pump stations.
  - a. A portable generator may be purchased for the Township in leu of an onsite generator, if approved by Howell Township, depending on location of pump station.
- 2. Generators smaller than and including 100KW shall be natural gas. Generators larger than 100KW may be diesel.
- 3. Generator engine speed shall be 1800 rpm. High-speed generators will not be acceptable.
- 4. All generators shall include the following accessories, at a minimum. Additional products may be necessary based on pump station location.
  - a. Coolant heater
  - b. Battery charger
  - c. Batteries
  - d. Exhaust silencer, critical type
  - e. Battery tray heater
  - f. Alternator heater
  - g. Convenience receptacle
- 5. Generator shall be equipped with a weatherproof, insulated, level 2 sound attenuated enclosure.
- 6. Generator shall be sized according to pump sizes, other electrical loads required per pump station, and must be approved by Howell Township.
- 7. An Automatic Transfer Switch (ATS) shall be sized to handle the electrical service and generator requirements. ATS shall be from the Generator supplier and approved by the Generator manufacturer for each specific application.

#### **PUMPS**

- 1. Pump shall be sized as to pump peak flow through one pump at any given time.
- 2. Pumps must be able to pass flushable wipes.
- 3. Pump discharge piping 3" or larger must be ductile iron. Discharge piping may only be one size larger than the pump discharge, as recommended by the manufacturer.
- 4. Pump discharge piping less than 3" must be PVC Sch 80.
- 5. For pump discharge less than 3", grinder pumps are required.
  - a. VFDs with a manual backflow option shall be provided for all grinder pumps.

#### **FORCEMAIN**

1. Forcemain shall be a minimum of 2" but may not be smaller than the outlet of the pumps.

- Connect to Howell Township manhole or pump station as approved by Howell Township.
   Forcemain material shall be HDPE or PVC.

# 

## **Proposal for:**

# **Howell Township, Livingston County MI**

July 19, 2022

**Quoted by: Keegan Nixon** 

# Software and Services for BS&A Cloud Upgrade



Thank you for the opportunity to quote our software and services.

At BS&A, we are focused on delivering unparalleled service, solutions, support, and customer satisfaction. You'll see this in our literature, but it's not just a marketing strategy... it's a mindset deeply embedded in our DNA. Our goal is to provide such remarkable customer service that our customers feel compelled to remark about it.

We are extremely proud of the many long-term customer relationships we have built. Our success is directly correlated with putting the customer first and consistently choosing to **listen**. Delivering unparalleled customer service is the foundation of our company.

## **Cost Summary**

Software is licensed for use only by municipality identified on the cover page. If used for additional entities or agencies, please contact BS&A for appropriate pricing. Prices subject to change if the actual count is significantly different than the estimated count.

#### **Upgrade - Cloud Modules**

| \$2,520 |
|---------|
| \$2,135 |
| \$2,135 |
| \$1,350 |
|         |
| \$3,455 |
|         |
| \$3,305 |
|         |
| \$2,755 |
| \$2,395 |
| \$1,275 |
| \$660   |
|         |
| \$0     |
|         |

Subtotal **\$21,985** 



#### **Project Management and Implementation Planning**

#### Services include:

- Analyzing customer processes to ensure all critical components are addressed.
- Creating and managing the project schedule in accordance with the customer's existing processes and needs.
- Planning and scheduling training around any planned process changes included in the project plan.
- Modifying the project schedule as needed to accommodate any changes to the scope and requirements of the project that are discovered.
- Providing a central contact between the customer's project leaders, developers, trainers, IT staff, conversion staff, and other resources required throughout the transition period.
- Installing the software and providing IT consultation for network, server, and workstation configuration and requirements.
- Reviewing and addressing the specifications for needed customizations to meet customer needs (when applicable).

\$9,250

#### **Implementation and Training**

- \$1,000/day
- Days quoted are estimates; you are billed for actual days used

#### Services include:

- Setting up users and user security rights for each application
- Performing final process and procedure review
- Configuring custom settings in each application to fit the needs of the customer
- Setting up application integration and workflow methods
- Onsite verification of converted data for balancing and auditing purposes
- Training and Go-Live

|                               | Total: | 17 | Subtotal | \$17,000 |
|-------------------------------|--------|----|----------|----------|
| Property Modules              | Days:  | 2  |          | \$2,000  |
| Community Development Modules | Days:  | 3  |          | \$3,000  |
| Personnel Management Modules  | Days:  | 3  |          | \$3,000  |
| Financial Management Modules  | Days:  | 5  |          | \$5,000  |
| Software Setup                | Days:  | 4  |          | \$4,000  |



#### **Cost Totals**

Not including Annual Service Fees

| Modules Project Management and Implementation Planning Implementation and Training | \$21,985<br>\$9,250<br>\$17,000 |
|--|---------------------------------|
| Total Proposed   | \$48,235                        |
| Travel Expenses  | \$1,495                         |
| Hosting Fees   | \$5,500                         |

# Payment Schedule

1st Payment: \$9,250 to be invoiced upon execution of this agreement.
 2nd Payment: \$27,485 to be invoiced at activation of customer's site.
 3rd Payment: \$18,495 to be invoiced upon completion of training.



### **Cloud Annual Service Fees**

Unlimited support is included in your Annual Service Fee. Service Fees are billed annually. After two (2) years, BS&A Software reserves the right to increase the Annual Service Fee by no more than the yearly Consumers Price Index for All Urban Consumers U.S. city average (CPI-U)."

| Financial Management         |          |
|------------------------------|----------|
| General Ledger               | \$2,520  |
| Acçounts Payable             | \$2,135  |
| Cash Receipting              | \$2,135  |
| Utility Billing              | \$1,350  |
| Personnel Management         |          |
| Payroli                      | \$3,455  |
| Community Development        |          |
| Building Department          | \$3,305  |
| Property                     |          |
| Assessing                    | \$2,755  |
| Tax                          | \$2,395  |
| Special Assessment           | \$1,275  |
| Delinquent Personal Property | \$660    |
| BS&A Online                  |          |
| Public Records Search        | \$4,700  |
| Total Annual Service Fees    | \$26,685 |

## **Hosting Fees**

Fees relating to the hosting and storage of data through Microsoft Azure are to be billed annually, for all modules included above.

\$5,500



#### Additional Information

#### **Program Customization**

BS&A strives to provide a flexible solution that can be tailored to each municipality's needs. However, in some cases, custom work may be required. Typical examples include:

- custom payment import/lock box import
- · custom OCR scan-line
- custom journal export to an outside accounting system
- custom reports

If you require any custom work, please let us know so that we can better understand the scope of your request and include that in a separate proposal.

| Cash Receipting Hardware                        |       | Q | uantity |   | Cost |
|---|-------|---|---------|---|------|
| Epson THM-6000V Series Receipt Printer*         | \$925 | x |         | = | \$   |
| APG Series 100Cash Drawer**                     | \$250 | x |         | = | \$   |
| Honeywell Hyperion 1300g Linear-Imaging Scanner | \$250 | х |         | = | \$   |
| Credit Card Reader (if using Invoice Cloud)     | \$75  | х |         | = | \$   |
| This will add \$ to the Total Proposed.         |       |   |         |   |      |

\*IMPORTANT. The receipt printer must be plugged into the USB port on one workstation (not your server). This printer is not to be shared with other workstations. If more than one workstation will be used for receipting, please consider purchasing more than one receipt printer.

Please provide the number of cash drawers that will be hooked up to the printer\_\_\_\_\_

Note: The availability, model numbers, and pricing for all third party hardware listed above is subject to availability from the manufacturers. In the event that the listed hardware is no longer available at the time of purchase, a comparable replacement will be available, at the then current cost. Returns require pre-approval, and all purchased equipment must be shipped back to BS&A in its original packaging. Returns are subject to a re-stocking fee of \$50.00.

# Additional Training - Building Department Report Designer

Most of our Building Department customers heavily use our Report Designer, which is included free with the program. Report Designer Training is not included in the training quoted on this proposal and is highly recommended. You may attend a class at our office in Bath Township, or we can train at your location. Report Designer Training is typically completed in one day.

Please check the option you are interested in. Report Designer Training will be scheduled after successful implementation and training of your Building Department software.

| Classroom | training, | \$205/p | erson/day |
|-----------|-----------|---------|-----------|
|           |           |         |           |

| On-site training | (unlimited   | attendees)  | , \$1,000/day, | travel | not | included |
|------------------|--------------|-------------|----------------|--------|-----|----------|
| Oll"Site dalima  | \u11111111CG | utteriaces, | , 4 1,000, 44, |        |     |          |



#### **BS&A Online**

#### **Connection Requirements**

BS&A Cloud modules require a high-speed internet connection (cable modem or DSL).

#### **Payment Processing Requirements**

Acceptance of online payments requires a contract with one of BS&A's approved Online Credit Card Processing companies. Please visit <a href="https://www.bsasoftware.com/solutions/bsaonline/public-records-search/">https://www.bsasoftware.com/solutions/bsaonline/public-records-search/</a> for information.



# 



3121 E. Grand River Howell, MI 48843 517.546.4836 fax 517.548.1670 www.bosseng.com

August 2, 2022

Ms. Jean Graham, Clerk Howell Township 3525 Byron Road Howell, Mi. 48855

Re: Burkhart Ridge Manufactured Housing Community REU Request

Dear Ms. Graham,

On behalf of Burkhart Ridge, LLC and Burkhart Road Associates, LLC, owner of the Burkhart Ridge Manufactured Housing Community, please accept this letter as request to appear before the Township Board on August 8, 2022 to request the following two items:

1. Confirmation by the Board of the reduction of the Residential Equivalent Unit factor for sewer to 0.58 REU's per new lot based on the attached Howell Township's letter dated March 4, 2019 responding to Burkhart's request for the REU reduction based on actual water meter readings. There is currently a 192 lot expansion underway that will begin home occupation in the fourth quarter of this year.

2. Request a tap fee offset based on the 0.58 REU confirmation to adjust for overcharge of the tap fee on the initial 306 sites that are built and occupied. Please reference the attached April 19, 2022 documentation (including the memorandum dated March 7, 2022) addressed to the Township Supervisor.

The documents that form the basis of the requests are the Consent Decree entered into in 1996 between Howell Township and Burkhart Road Associates, LLC and Section 7 D. of the Howell Township Sewer Ordinance. The Consent Decree allows for, and Section 7 D. of the Howell Township Sewer Ordinance requires, adjustment of REU values based upon the actual water meter readings in lieu of the presumed REU values in the Howell Township Sewer Ordinance, provided such readings are reasonably available to the Township, as is the case since the water meter readings are available through the Marion, Howell, Oceola and Genoa Water Authority (MHOG).

Thank you in advance for the opportunity to further discuss this important matter with the Board.

If you have any questions, please feel free to contact me. Thank you.

Sincerely,

Boss Engineering Company

Brent W. LaVanway, P.E.

President, Director of Engineering

CC: K:\DOCS\18-039twpclerkletter
Attachments-March 4, 2019 Howell Township letter and April 19, 2022 Boss Engineering letter

# Howell Township

3525 Byron Road • Howell, MI 48855 Phone: (517) 546-2817 • Fax (517) 546-1483 www.howelltownshipmi.org



March 4, 2019

Re: Burkhart Ridge Manufactured Housing Community

Dear Mr. LaVanway,

Per your letter of January 15, 2019 that requested a reduction of future sewer and water REU'S to 0.5 per manufactured home. I have ask MHOG to complete a water usage study to determine the Residential Equivalent Unit per manufactured home.

MHOG has completed a study to determine the REU per occupied site based on yearly water consumption for 2017 & 2018. MHOG has determined that that the residential equivalent unit per manufactured home is 0.58.

I have attached MHOG's evaluation that show the peak quarter, account history, and a copy of the MHOG Board approved methodology.

If you have any question feel free to contact me.

Sincerely,

Joe Daus

Zoning Administrator



3121 E. Grand River Howell, MI 48843 517.546.4836 fax 517.548.1670 www.bosseng.com

April 19, 2022

Mr. Michael Coddington, Supervisor Howell Township 3525 Byron Road Howell, Mi. 48855

Re: Burkhart Ridge Manufactured Housing Community

Dear Mr. Coddington,

As you are aware Burkhart Ridge is well underway with the 192 lot expansion. The park is at full occupancy thus new lots will be brought on line to meet demand. As a part of this process we had requested a reduction of the REU factor to 0.5 based on actual usage data from the 306 occupied sites.

Upon submittal of this request the Township requested the MHOG water authority to conduct a water usage study and MHOG determined the appropriate REU factor to be 0.58.

Thus, based on the above documentation and the attached REU analysis dated March 7, 2022, we respectfully request on behalf of Burkhart Ridge, LLC, the successor to Burkhart Road Associates, LLC, that the REU fees for the current expansion be waived due to the original application of the 1.0 REU factor for the first 306 lots plus clubhouse.

Also, as a result of the actual usage calculations the Burkhart Ridge sanitary pump station available capacity should be adjusted and documented at 558 REU's per the calculations provided in the Boss Engineering memo dated March 7, 2022.

If you have any questions, please feel free to contact me. Thank you.

Sincerely,

Boss Engineering Company

Brent W. LaVanway, P.E.

President, Director of Engineering

CC: K:\DOCS\18-039reureductionrequestletter

Attachments



3121 E. Grand River Howell, MI 48843 517.546.4836 fax 517.548.1670 www.bosseng.com

March 7, 2022

#### <u>Memorandum</u>

To: Mr. Paul Chosid, Burkhart Ridge Manufactured Housing Community

Re: Evaluation of allocated and proposed Residential Equivalent Units for Sewer and Water

Dear Paul,

Pursuant to your request I have evaluated past Burkhart Ridge sanitary sewer connection charges and provide the following information:

Based on the Marion, Howell, Oceola, Genoa (MHOG) Water Authority analysis performed in 2019 as noted in the Howell Township letter dated March 4, 2019 the appropriate Residential Equivalent Unit (REU) factor for the Burkhart Ridge Manufactured Housing Community is 0.58. In other words each manufactured home uses the water/sanitary sewer equivalent of 0.58 single family homes. As noted the resultant REU factor is based on an analysis of actual water usage for the years 2017 and 2018.

The Burkhart Ridge, Phase 4 expansion of 192 lots will bring the total number of lots to 498. The first 306 lots were charged 1.0 REU per lot based on the Equivalent User Table in the Howell Township "Wastewater Collection and Treatment System Ordinance" dated June 30, 1989 and amended January 1, 2004. It is now known, based on the MHOG study that each lot in Burkhart Ridge uses the equivalent of 0.58 REU's.

Extrapolating the 0.58 factor back to the first 306 lots results in the following:

0.58x306=177.48 (round to 178) REU's being the accurate allocation.

The overage is 306-178=128.

For Phase 4, the 192 lots, with a factor of 0.58 applied is equal to 111.36 (round to 112)

If the 128 lot overage is applied to Phase 4 then there should be a credit of 16 REU's (128-112).

Also, for the 850 REU sanitary sewer pump station the remaining capacity, after build out of the additional 192 lots, should be the following:

850 REU capacity 0.58x498 lots=288.84 REU's (round to 289) 3 REU's for the Clubhouse

Resultant available capacity=850-289-3=558 REU's

If you have any questions please feel free to contact me. Thank you.

Brent W. LaVanway, P.E. President, Director of Engineering

CC: G:\18-039\docs\18-039reuanalysis.doc

# 



July 8, 2022

#### GEOTECHNICAL MEMORANDUM

RE: Pioneer Cemetery

Groundwater & Geotechnical Investigation

By: Nils Lindwall, P.E.

Senior Project Manager | Geotechnical Engineer

Spicer Group, Inc.

This memorandum summarizes Spicer Group's investigation of subsurface conditions at Howell Township's Pioneer Cemetery, located in Livingston County, Michigan. Pioneer Cemetery is located on North Burkhart Road, north of Marr Road, as shown on Figure 1.

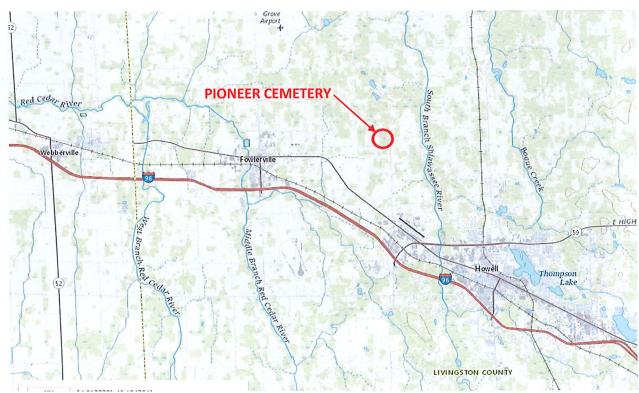


Figure 1 – Vicinity Map

#### **Project Overview:**

The cemetery is located on an approximately  $3\frac{1}{2}$  -acre parcel. The northeastern quarter of the site is cleared and maintained as lawn and the remainder is wooded. The east half of the cleared area currently contains graves. A "P"-shaped roadway traverses the site. High groundwater has limited the use of the cemetery. The Township is considering options for mitigating the high groundwater or modifying the use of the site. The purpose of our work was to investigate subsurface conditions, monitor groundwater levels, and provide

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Note that groundwater levels will be influenced by weather and climate and likely vary seasonally.

#### **Analysis & Conclusions**

Soils encountered in the borings consisted of silty clay and clay with sandy and silty seams. The upper soils were generally medium stiff, but became very stiff to hard at a depth of about 4 to 4.5 feet. Groundwater was encountered at depths of 2 to 3.5 feet during drilling.

Interpolating between groundwater measurements from the monitoring wells, and assuming a planar groundwater surface, results in the idealized groundwater surface as shown in the following figure:

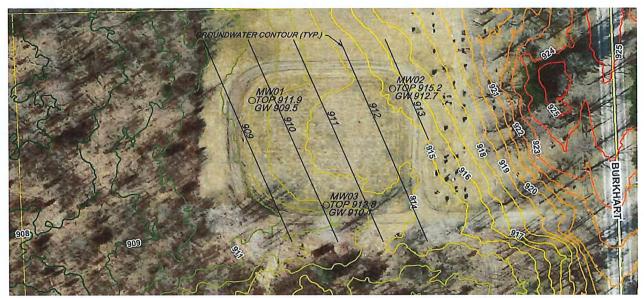


Figure 3 – Groundwater Contours

Groundwater appears to generally flow from east-northeast to south-southwest, and approximates the surface topography. We expect much of the groundwater flows through the sandy and silty seams that were encountered throughout our explorations. The groundwater table is generally about 2.5 feet below the existing ground surface. A hole excavated below this level will fill with water to about that level. We understand that graves are about 6 feet deep, which would result in about 3.5 feet of water depth. Concrete burial vaults will become buoyant in about 1 to 1.5 feet of water, depending upon the specific dimensions. We expect that groundwater levels must be at least 5 feet – and preferably 6 feet – below the ground surface to be able to utilize the site for standard burials.

We considered two potentially feasible mitigation alternatives: an underdrain system and site fill.

An underdrain system would consist of perforated pipe installed in a trench and backfilled with permeable aggregate. Pipe should be 6-inch diameter PVC. Excavation can either be performed with an excavator or a trencher. The permeable aggregate can either be clean sand (MDOT Class II AA) or coarse, uniform aggregate such as MDOT 34R. If sand is used, the pipe should incorporate a geotextile sock. If coarse aggregate is used geotextile blanket material should be placed between the aggregate and in-place soil. The drain would intercept and locally lower the groundwater table. We would recommend outletting to a low area on site. It appears that

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Alternatively, the open area of the site, as well as the wooded portion of the property could be used as a scatter garden for cremated remains.

#### Recommendations

In our opinion, the underdrain option is the most cost-effective alternative and will maintain the site close to its current configuration. We would develop a simple bidding and construction package with drawings and specifications for the work. We do not anticipate that additional survey would be required, though the elevation of the proposed outlet location should be confirmed. Since the drain would not outlet into wetlands, no EGLE permit is necessary. Similarly, the project disturbance is not large enough to require an SESC permit. With the drain will discharging on Township property and the flow will being minor, authorization by the neighbor adjacent to the outlet is not required; however, we suggest notifying the neighbor to avoid future dispute.



#### LOG OF HAND AUGER BORINGS

Client: Howell Township Project No: 132438SG2022 Project Name: Pioneer Cemetery Groundwater Investigation

Project Location: Livingston County, Michigan

HA01

Location: NW corner of driveway loop

Lat: 42.668822

Elev: 912 ft

Long: -83.996158

GW: 2.5 ft after drilling

By: JLH/NWL Date: 5/16/2022

|       | Surface: grass                         | GW: 2.5 ft after drilling                                     |                 | Date:    | 5/16/2022 |
|-------|--|---|-----------------|----------|-----------|
| Depth |  | Material Description  | Sample          | DCPT     | Other     |
| 0     | 5 inches topsoil                       |   |                 |          |           |
|       | Brown, fine SILTY SAND (SM), few fine  | gravel - moist - loose  |                 |          |           |
| 1 —   |  |   | . 1             |          |           |
|       | Brown SILTY CLAY (CL-ML), trace fine   | sand and gravel - wet - medium stiff                          |                 |          |           |
| 2 —   |  |   |                 | 4 8 7    |           |
|       | Brown CLAY (CL), trace coarse sand, n  | umerous fine sandy silt layers - wet - medium stiff           |                 |          |           |
| 3 —   | trace coarse gravel                    |   | 200, 11 1 1 200 |          |           |
| 4 —   | becomes very stiff, scattered silty sa | nd seams  |                 | 12 21 23 |           |
|       | becomes very sum, scattered sitty sa   | ila scans   |                 | 12 21 23 |           |
| 5 —   |  |   |                 |          |           |
|       |  |   | ,               |          |           |
| 6     |  | alans ground surface. Well installed, carooned 6 ft to 1 ft f |                 |          |           |

Refusal on coarse gravel at 6.0 feet below ground surface. Well installed: screened 6 ft to 1 ft, filter sand 6 ft to 1 ft, 0.5-ft bentonite seal, plastic surface box.



#### **LOG OF HAND AUGER BORINGS**

Client: Howell Township Project No: 132438SG2022

Project Name: Pioneer Cemetery Groundwater Investigation

Project Location: Livingston County, Michigan

HA03

Location: S side of driveway loop

Lat: 42.668558

Elev: 913 ft

Long: -83.99591

JLH/NWL By: 5/16/2022

|       | Lat: 42.668558  | Long: -83.99591                        |        | Dy.      | 546/0000  |
|-------|---|--|--------|----------|-----------|
|       | Surface: grass  | GW: 2.0 ft during drilling             |        | Date:    | 5/16/2022 |
| Depth |   | Material Description                   | Sample | DCPT     | Other     |
| 0     | 12 inches loamy topsoil                                     |  |        |          |           |
| 2 —   |   | trace fine sand - moist - medium stiff |        | * *<br>= |           |
| 3 —   | becomes light brown, wet                                    |  |        | 8 7 8    |           |
| 4 —   | lew fine to medium sarid                                    |  |        |          |           |
| 5 —   | becomes hard  |  |        |          |           |
| 6 —   | numerous fine SILTY SAND seams, trace fine to coarse gravel | trace fine gravel                      |        | 12 30 38 |           |
| 7 -   |   |  |        |          |           |
| 8     | few fine to coarse SAND                                     | 1001.00 (1)                            |        |          | 4         |

Boring terminated at 8 feet below ground surface. Well installed: screened 8 ft to 3 ft, filter sand 8 ft to 1 ft, 0.5-ft bentonite seal, plastic surface box.

# 

| Al | $\Box$ | D | R | Œ | I | J |
|----|--------|---|---|---|---|---|
|    |        |   |   |   |   |   |

| Permit #      | Contractor        | Job Address       | Fee Total  |
|---------------|-------------------|-------------------|------------|
| PREU22-001    | K & K LEASING LLC | 1695 HYDRAULIC DR | \$6,700.00 |
| Work Descript | cion:             |                   |            |

Total Permits For Type:

1

Total Fees For Type:

\$6,700.00

# Commercial Land Use

| Permit #    | Contractor  | Job Address                                      | Fee Total                |
|-------------|---|--|--------------------------|
| P22-041     | K & K LEASING LLC                                 | 1695 HYDRAULIC DR                                | \$250.00                 |
| Work Descri | iption: SITE GRADING AND BA                       | LANCING  |                          |
| P22-098     | K & K LEASING LLC                                 | 1695 HYDRAULIC DR                                | \$250.00                 |
| Work Descri | iption: CONSTRUCTION OF 8 S<br>AREA FOR OUTDOOR S | ELF STORAGE BUILDINGS, A 720 SQ FT OF<br>TORAGE. | FFICE BUILDING AND PAVED |

Total Permits For Type:

2

Total Fees For Type:

\$500.00

# **MHOG**

| Permit#       | Contractor             | Job Address       | Fee Total |
|---------------|------------------------|-------------------|-----------|
| PMHOG22-020   | ) JANUSZKA CHERYL      | 3041 IVY WOOD CIR | \$0.00    |
| Work Descript | tion:                  |                   |           |
| PMHOG22-01    | 9 WESTVIEW CAPITAL LLC | 3079 IVY WOOD CIR | \$0.00    |
| Work Descrip  | tion:                  |                   |           |
| PMHOG22-01    | 7 BAIN JOYCE J         | 2424 OAK GROVE RD | \$0.00    |
| Work Descrip  | tion:                  |                   |           |

Total Permits For Type:

3

Total Fees For Type:

\$0.00

# Residential Land Use

| Permit#                  | Contractor                                      | Job Address                           | Fee Total                 |
|--------------------------|---|---------------------------------------|---------------------------|
| P22-090                  | SABO MARCUS                                     | 989 W ALLEN                           | \$50.00                   |
| Work Descrij             | ption: GROUND MOUNTED                           | SOLAR ARRAY                           |                           |
| P22-093                  | GUENTHER RYAN AND                               | LINDE 4747 W MARR                     | \$75.00                   |
| Work Descri <sub>l</sub> | ption: 3061 SQ FT TWO STOP                      | RY DWELLING ON A FULL BASEMENT WITH   | A 3 CAR ATTACHED GARAGE   |
| P22-091                  | BOWMAN LUKE AND A                               | NNA 3680 W MARR                       | \$50.00                   |
| Work Descri              | ption: 218 SQ FT DECK ATTA                      | ACHED TO HOUSE                        |                           |
| P22-089                  | MACHIN PHILIP AND A                             | NDREA 3691 AMBER OAKS DR              | \$50.00                   |
| Work Descri              | ption: 16 X 32 ABOVE GROU                       | ND POOL                               |                           |
| P22-101                  | ROLTSCH JOSHUA AND                              | MELIN 3288 HILL HOLLOW LN             | \$50.00                   |
| Work Descri              | ption: ROOFTOP SOLAR SYS                        | STEM                                  |                           |
| P22-096                  | WESTVIEW CAPITAL LI                             | .C 3079 IVY WOOD CIR                  | \$105.00                  |
| Work Descri              | ption: 1576 SQ FT 2 STORY I<br>GARAGE.          | OWELLING ON A FULL UNFINISHED BASEME  | ENT WITH A 2 CAR ATTACHED |
| P22-095                  | VELFLING MICHELLE                               | 3195 FISHER RD                        | \$75.00                   |
| Work Descri              | ption: REPAIR OF FIRE DAM                       | MAGE                                  |                           |
| P22-103                  | SMITH SCOTT                                     | 889 W BARRON                          | \$75.00                   |
| Work Descri              | iption: 646 SQ FT ADDITION                      | ON A CRAWL AND A 176 SQ FT ADDITION ( | ON PIERS.                 |
| P22-099                  | GAUCI CHARLES AND                               | PHYLLI 2446 AMBERWOOD TRL             | \$10.00                   |
| Work Descri              | iption: REMOVE AND REPL                         | ACE ROOFING SYSTEM - NO STRUCTURE CH  | ANGES                     |
| P22-100                  | GREEN RANDALL AND                               | LINDS 3150 CRANDALL                   | \$75.00                   |
| Work Descri              | iption: 2,880 SQ FT SINGLE S<br>ATTACHED GARAGE | CTORY DWELLING ON A CRAWL SPACE / BA  | ASEMENT WITH A 2 CAR      |
| P22-102                  | GOLSCH KEVIN AND J                              | ENNIFE 2201 BREWER                    | \$75.00                   |
| Work Descri              | iption: 1,883 SQ FT 2 STORY                     | DWELLING ON A FULL BASEMENT WITH A 3  | 3 CAR ATTACHED GARAGE.    |
| P22-094                  | BRIDEAU WAYNE AND                               | ) WAND 2078 OAK GROVE RD              | \$50.00                   |
| Work Descr               | iption: 13 X 25 ROOF COVER                      | R OVER EXISTING PATIO                 |                           |
| P22-092                  | GRILL RICHARD AND J                             | JULIE 2263 KAREN DR                   | \$10.00                   |
| Work Descr               | iption: REROOF - ON HOUS                        | E AND GARAGE NO STRUCTURAL CHANGES    | S                         |
| P22-097                  | SAMPEY DENNIS AND                               | ELIZAB 5478 SPRING CRK                | \$10.00                   |
| Work Descr               | iption: GENERATOR INSTA                         | LLATION                               |                           |
| P22-088                  | TRUSS SHANE                                     | 3500 MASON RD                         | \$50.00                   |
| Work Descr               | iption: 17 X 34 INGROUND                        | POOL AND FENCE                        |                           |

Total Permits For Type: Total Fees For Type:

15 \$810.00

| Sewer ( |     | 4440         | A 11 | A41 |
|---------|-----|--------------|------|-----|
| 3-W-1   |     |              |      |     |
| OC WCI  | VV. | $\mathbf{I}$ | · ·  |     |
|         |     |              |      |     |

| Permit#   | Contractor        | Job Address       | Fee Total  |
|-----------|-------------------|-------------------|------------|
| PWS22-004 | K & K LEASING LLC | 1695 HYDRAULIC DR | \$5,000.00 |

**Total Permits For Type:** 

1

Total Fees For Type:

\$5,000.00

Sign

| Permit#     | Contractor                   | Job Address       | Fee Total |
|-------------|------------------------------|-------------------|-----------|
| P22-018     | K & K LEASING LLC            | 1695 HYDRAULIC DR | \$225.00  |
| Work Descri | ption: 62" X 173" GROUND SIG | N.                |           |

Total Permits For Type:

1

Total Fees For Type:

\$225.00

# Water Connection

| ***               |                   |            |
|-------------------|-------------------|------------|
| BAIN JOYCE J      | 2424 OAK GROVE RD | \$5,000.00 |
| ion:              |                   |            |
| K & K LEASING LLC | 1695 HYDRAULIC DR | \$5,000.00 |
|                   | ion:              | ion:       |

Total Permits For Type:

2

Total Fees For Type:

\$10,000.0

# Report Summary

Population: All Records Permit.DateIssued Between 7/1/2022 12:00:00 AM AND 7/31/2022 11:59:59 PM Grand Total Fees:

**Grand Total Permits:** 

\$23,235.0

### Monthly Activity Report for July 2022 - Assessing Dept/Brent Kilpela

### MTT UPDATE:

### 2022

**Chestnut Woods v Howell Township:** Filed answer to appeal on June 22<sup>nd</sup>. The Michigan Tax Tribunal will schedule discovery and hearing dates according to their calendar.

**Antolin Interiors USA, Inc. v Howell Township:** Filed answer to appeal on July 18<sup>th</sup>. The Michigan Tax Tribunal will schedule discovery and hearing dates according to their calendar.

### **SMALL CLAIMS TRIBUNAL:**

Violet Storey v Howell Township: Hearing has been scheduled for September 1st.

### **ASSESSING OFFICE:**

ASSESSOR: Field work is progressing. We have done sections 5-9 thus far. July Board of Review was held on July 19<sup>th</sup>. The July Board of Review docket contained 7 petitions. Recent legislation was handed down that changes the way Principal Residence Exemptions will be handled going forward. The Board of Review was stripped of the power to rule on previous year exemptions. The Assessor now has the power to put eligible PRE's in place for the 3 previous years. Administrative items still must be addressed but this is common when legislation is first passed. The Township Board needs to be aware of a change with any future IFT applications. This change affects personal property included in the application. If the personal property qualifies for the Eligible Manufacturing Personal Property (EMPP) Exemption, then it should **not** be included in the application.

**OTHER:** Attended a walkthrough meeting at our Waste Water Treatment Plant with the new operator. Prepared year end wrap for fiscal year 2021-2022.

### Oceola Township Fire Authority Meeting: July 20, 2022 6pm

**Personnel Committee:** Personnel Committee recommended and Board approved the same salary increase for the Fire Chief as the rest of the crew received.

**Software:** The State requires Fire Departments to have software that tracks certain information on their runs. Board approved software from First Due for \$16,000 per year. The current software being used will not be compliant as of January 1<sup>st</sup>, and the current software company has been unresponsive to questions about being updated.

**MIOSHA:** MIOSHA received a complaint about the Fire Authority and made an unscheduled visit on July 1<sup>st</sup> and requested a lot of information and documents from the Department. MIOSHA will be returning on July 22<sup>nd</sup> to conduct interviews with staff.

**Union Contract:** Kevin will be starting negotiations soon on the new union contract.

Respectfully submitted, Jonathan Hohenstein

Oceola Township MHOG Meeting: July 20, 2022 5pm

Lawsuits: Discussed the status of the Hometown and Padnos lawsuits.

**REU Evaluation:** Discussed and approved an REU evaluation to be completed by Tetra Tech. An REU was set at 218 gallons per day in 2013. Greg has looked into what an average house is using today and it is around 150 gallons per day. The evaluation will also look into the impact that this has on other sources of revenue. It was also brought up that the REU calculation does not include irrigation water. Irrigation water is what generates MHOG's revenue but also causes the most demand on the system. The MHOG Board will seriously need to consider how to accurately reflect the cost of this extra demand and the improvements to the system that it requires.

**Approvals:** The Board approved the replacement of failing concrete around the north plant lime silo and a new sonar level sensor for the hypochlorite day tank.

Respectfully submitted, Jonathan Hohenstein

### LAND PURCHASE AGREEMENT

This LAND PURCHASE AGREEMENT ("Agreement") is made July 21, 2022, by and between Leo Soave ("Purchaser") and Howell Township, of 3525 Byron Rd, Howell, MI 48855 ("Seller") as follows:

### BACKGROUND

Seller desires to sell, and Purchaser desires to purchase vacant land located in Howell Township, Livingston County, Michigan (the "Land"), which Land is owned by Seller in fee simple.

### **AGREEMENT**

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND CONDITIONS SET FORTH HEREIN THE PARTIES AGREE AS FOLLOWS:

- 1. <u>Land</u>. Seller agrees to sell and Purchaser agrees to purchase vacant Land located in Howell Township, Livingston County, State of Michigan, identified as Parcel ID No. 4706-17-400-031, legally described on Exhibit "A".
- 2. <u>Purchase Price</u>. The Purchase Price shall be two hundred fifteen thousand Dollars (\$215,000.00), paid in cash in United States currency or its equivalent at closing.
- 3. <u>Deposit</u>. Purchaser hereby tenders to Seller a good faith deposit in the amount of Six Thousand Dollars (\$6,000.00) with Scott Griffith at Griffith Realty, 502 W. Grand River Ave., Brighton, Michigan 48116, to be credited to the Purchase Price at the time of Closing. This deposit is nonrefundable except as may otherwise be provided in this Agreement. An earnest money or escrow agreement consistent with this Agreement, to the extent required by Griffith Realty, shall be completed by both parties to effectuate this Agreement.
- 4. Payment of Property Taxes. Property taxes for the year of Closing shall be pro-rated as of the date of Closing on a calendar basis based upon the amount of such taxes if known at the time of Closing. Taxes will be treated as if they cover the calendar year in which they are first billed. Taxes first billed in years prior to year of Closing will be paid by Seller without proration. If any bill for taxes is not issued as of the date of Closing, the then current taxable value and tax rate and any administrative fee will be substituted.
- 5. <u>Inspection Period</u>. Purchaser shall have sixty (16) days following the execution date noted in this Agreement ("Inspection Period") to conduct its due diligence. If Purchaser is not satisfied, in its discretion, that is has been or likely will be satisfied with the conditions required of this Agreement, Purchaser may terminate this Agreement by providing written notice to Seller, and upon such termination, Purchaser's good faith deposit shall be returned. Upon commencement of the Inspection Period and throughout the term of this Agreement, Purchaser and its agents shall have the right to enter upon the Land to conduct the Examinations, which shall include soil borings, surveys, drilling and all tests normally performed for the determination of the suitability of real estate and for the collecting of all information necessary thereto (except to the extent that any right to exercise Purchaser's termination ends as of the expiration of the Inspection Period). The Examinations are to be made at Purchaser's expense and Purchaser shall be liable for any damage (ordinary wear and tear excepted) caused to the Land during said Examinations. Further, Purchaser agrees to indemnify and hold harmless Seller from and against



any damages or claims for injuries to any persons or to the Land that arise as a direct result of such Examinations, except to the extent such damages or claims are caused by or arise from preexisting conditions or Seller's, or its officers', directors', members', managers', principals', employees' or agents', negligence or intentional misconduct, which indemnity shall survive the Closing or any earlier termination of this Agreement. Purchaser shall provide Seller with evidence of insurance coverage, from Purchaser or any of its consultants entering the Land pursuant to this Section. If Purchaser terminates during the Inspection Period, Purchaser shall provide to Seller all reports and information obtained regarding the Land.

- 6. <u>Closing Deadline</u>; <u>Schedule</u>. The parties agree to schedule a closing at the earliest possible time, but in no event later than twenty-one (21) days following the date of this Agreement. Seller and Purchaser agree to use Bell Title Insurance Company, 6910 S. Cedar St., Suite 1, Lansing, Michigan 48911, as closing agent.
- 7. <u>Seller's Closing Deliveries</u>. At the Closing, Seller shall deliver to the Purchaser a Limited Warranty or Special Warranty Deed conveying to Purchaser only such title to the Land as is held by Seller, executed and acknowledged by Seller in recordable form.
- 8. <u>Purchaser's Closing Deliveries</u>. At Closing, Purchaser shall deliver to Seller the balance of the Purchase Price in the form of cash in U.S. currency or certified funds, and execute a signed Closing Statement, transfer tax declarations and state and local law reports and forms, evidence satisfactory to establish Purchaser's authority to purchase the Land and other documents as are necessary and appropriate for the consummation of this transaction by Purchaser.
- 9. Closing Costs. Seller shall pay for the following costs of the Closing, including (i) all transfer and/or conveyance taxes, if any, assessed in connection with the Closing, (ii) the premium for the Title Policy. Purchaser will pay for the following costs of the Closing, including (iii) any Closing fee charged by the title company in connection with this transaction, (iv) any special assessments (water, sewer or otherwise) that currently are due at the time this Agreement is executed, and (v) any and all other regular and customary costs and expenses related to the Land.
- 10. <u>Title</u>. Seller shall at its own expense order a commitment for an owner's policy of title insurance (the "Title Policy") within ten (10) days of the date of this Agreement. If Purchaser is not satisfied with the title to Land as shown by the Title Policy, Purchaser may cancel this Agreement within thirty (30) days after the date of this Agreement, but not thereafter. Seller shall have no obligation to cure any alleged defects or objections to title to the Land.
- 11. Survey. Within ten (10) days of the date of this Agreement, Purchaser may order, at its own expense, a new ALTA survey (the "Survey") of the Land, showing the legal description of the Land, any boundary encroachments that may impact the Land, all easements affecting the Land and such other matters desired by Purchaser. If Purchaser is not satisfied with the Land as shown by the Survey, Purchaser may cancel this Agreement within thirty (30) days after the date of this Agreement, but not thereafter. Seller shall have no obligation to cure any alleged defects or objections shown by the Survey.
- 12. Environmental Matters. Within ten (10) days of the date of this Agreement, Purchaser may, at its own expense, conduct such environmental site evaluations of the Land as it deems appropriate including, without limitation, a Phase I and Phase II environmental site assessment and/or a Baseline Environmental Assessment (collectively, the "Site Investigation Reports"). If

Purchaser is not satisfied with the Land as shown by the Site Investigation Reports, Purchaser may cancel this Agreement within thirty (21) days after the date of this Agreement, but not thereafter. Seller shall have no obligation to cure any alleged defects or objections shown by the Site Investigation Reports.

- 13. <u>Representations of Seller</u>. Seller hereby represents to Purchaser that to the best of Seller's knowledge, as of the date hereof and on the date of Closing, but without additional investigation by Seller:
- A. Seller has the right, power and authority to enter into this Agreement and to sell the Land in accordance with the terms hereof, and Seller has granted no option or right of first refusal to any other person or entity to purchase the Land and has not entered into any contract to sell the Land as of the date of the Agreement. The individuals signing this Agreement and all other documents executed or to be executed pursuant hereto on behalf of Seller are and shall be duly authorized to sign the same on Seller's behalf and to bind Seller thereto.
- B. Except as set forth in the Site Investigation Reports, Seller has not received any notice of, and has no knowledge of, existing violations on the Land or any portion thereof of any zoning, building, fire, health, pollution, environmental protection, hazardous or toxic substance or waste disposal law or ordinance.
- C. Seller will convey the Land to Purchaser pursuant to the Limited Warranty or Special Warranty Deed.
- D. All prior due general real estate related property taxes and assessments shall have been paid when due.
- E. There is no litigation, proceeding or investigation pending or, to and to Seller's officials' knowledge, threatened against or involving Seller or the Land, and Seller does not know or have reason to know of any grounds for any such litigation, proceeding or investigation, which could have an adverse impact on Purchaser or Purchaser's title to or use of the Land, either before or after Closing.
- F. Seller is not a "foreign person" as that term is defined in section 1445 of the Internal Revenue Code of 1986, as amended.
- G. Except as set forth in any reports obtained or provided and to Seller's officials' knowledge, the Land and Seller are in full compliance with all requirements of federal, state and local environmental, health or safety laws, regulations and administrative or judicial decrees, as amended (the "Environmental Laws"), limited only to within the time-frame from when the seller acquired the interest being conveyed and the closing of the Land to the Purchaser.
- H. With the exception of the documents provided to the Purchaser and to Seller's officials' knowledge, there are no reports, studies, appraisals, engineering reports, correspondence, agreements with governmental authorities, wetland studies or reports, flood plain studies or reports and/or other written information related to the Land of which Seller is aware or that are in Seller's possession or control.
- 13. <u>Representations of Purchaser</u>. Purchaser hereby represents to Seller, which representations and warranties shall survive Closing, that as of the date hereof, and on the date of Closing:



- A. Purchaser has the full power and authority to execute, deliver and perform this Agreement and all of Purchaser's obligations under this Agreement; and
- B. The individuals signing this Agreement and all other documents executed or to be executed pursuant hereto on behalf of Purchaser are and shall be duly authorized to sign the same on Purchaser's behalf and to bind Purchaser thereto.
- C. Purchaser acknowledges that the Land was obtained by Seller through foreclosure sale and may dictate that title is transferred with a covenant or special warranty deed recognizing the same.

### 14. Default and Remedies.

- A. <u>Purchaser's Default; Seller's Remedy</u>. If the Purchaser fails to close on the purchase of the Land, Seller may, as its sole and exclusive remedy terminate this Agreement by giving an appropriate Notice of Default as provided below. Upon termination, Seller may retain any deposit paid by Purchaser to Seller, except as otherwise provided in this Agreement.
- B. <u>Seller's Default; Purchaser's Remedies</u>. In the event Seller fails to timely perform any material act, or provide any material document or information required to be provided by Seller, then Purchaser shall be entitled to (i) terminate this Agreement, and (ii) seek return of the deposit.
- C. <u>Notice of Default</u>. In the event either party declares the other to be in default, such declaration shall be in writing, with an outline of the actions required to cure such default. The recipient of such notice of default shall have 30 days to cure the alleged default.
- 15. Sale and Assignment of Agreement. Neither party may assign its rights or delegate its obligations under this Agreement without the consent of the other party, which consent may be withheld in such other party's sole discretion.
- 16. Right to Split Land. The Land may be located within the vicinity of farmland or farm operation. Generally accepted agricultural and management practices which may generate noise, dust, odors, and other associated conditions may be used and are protected by the Michigan right to farm act. The Seller grants to the Purchaser the right to make \_\_\_\_\_ division(s) under section 108 of the Land Division Act, Act No 288 of the Public Acts of 1967. (If no number is inserted, the right to make divisions stays with the portion of the parent tract retained by the Seller; if all of the parent tract is conveyed, then all division rights are granted.) No number or will shall be inserted on the line before divisions and has been intentionally left blank.
- 17. Special Assessments. Purchaser acknowledges that there are Special Assessments for sewer and water against the Land that will come due for payment in the future and that are in the principal amount of \$145,865.00 exclusive of interest. Purchaser agrees to pay said Special Assessments in full as they come due. Purchaser agrees to pay said special assessments in full at closing. Once easement is agreed upon, Buyer shall have 3 business days to review and approve easement granted to 3295 N BURKHART RD HOWELL, property owner.

### 18. Miscellaneous.

A. TIME IS OF THE ESSENCE OF THIS AGREEMENT.

- B. This Agreement shall be governed by and construed under the laws of the state of Michigan.
- C. This Agreement supersedes all prior discussions and agreements between Seller and Purchaser with respect to the conveyance of the Land and all other matters contained herein and constitutes the sole and entire agreement between Seller and Purchaser with respect thereto. This Agreement may not be modified or amended unless such amendment is set forth in writing and signed by both Seller and Purchaser.
- D. All notices, payments, demands or requests required or permitted to be given pursuant to this Agreement shall be in writing and shall be deemed to have been properly given or served effective on the second (2nd) business day after being deposited in the United States mail, postpaid and registered or certified with return receipt requested; or when sent by private courier service for same-day delivery or one day after being sent by private courier service for next-day delivery. Notices shall be sent to the respective addresses set forth below:

To Seller:

Howell Township

Attention: Jean Graham, Clerk

3525 Byron Rd Howell, MI 48855

With a copy to:

Fahey Schultz Burzych Rhodes PLC

Attn: Christopher S. Patterson

4151 Okemos Road Okemos, MI 48864 Phone: 517-381-0100

To Purchaser:

Leo Soave

2771 Seven Mile Road

Suite C

Livonia, MI 48152

With a copy to:

Cheryl McKinnon Real Estate One Novi 41430 Grand River Novi, MI 48375 (248)798-3555

- E. This Agreement shall inure to the benefit of and bind the parties hereto and their respective heirs, legal representatives, successors and permitted assigns.
- F. Purchaser shall be responsible for any compensation owing to any broker or consultant that they created in connection with the transaction contemplated by this Agreement and agrees to indemnify and hold the Seller harmless against any and all liability, loss, cost, damage and expense (including, but not limited to, attorneys' fees and costs of litigation) that the

Seller shall ever suffer or incur because of any claim by any such broker or consultant. These obligations will survive closing or termination of this Agreement.

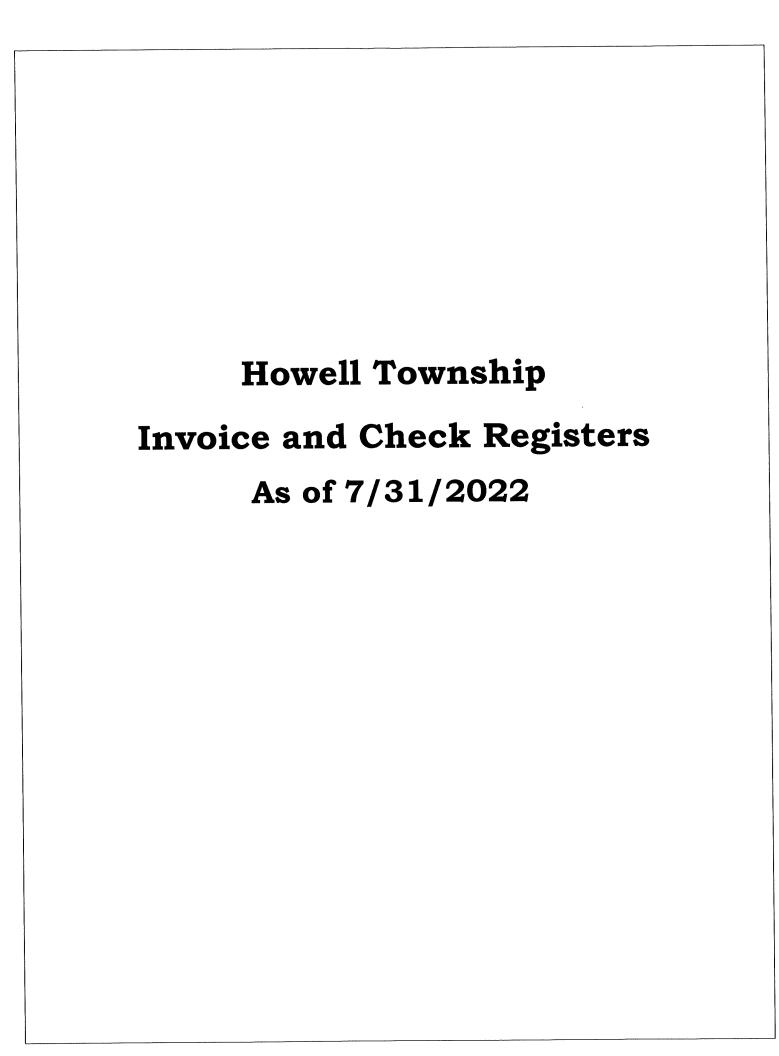
G. Purchaser is aware that this Property may be subject to a lease, which includes the use for agricultural purposes. If it is, a copy of the lease will be furnished to the Purchaser. The lessee of the Land (not a third-beneficiary of this Agreement with no right to bring any claim under the terms of this Agreement) may have planted a crop on the Land. The Closing Date will be scheduled no sooner than after the existing crop has been harvested, or if the Closing Date is prior to the harvest, the Purchaser must pay any damages or costs of Seller to compensate the lessee for any lost crop due to the sale of the Land through a credit to the Seller and debit to the Buyer at the Closing for approximately \$\_\_\_\_\_\_. The actual compensation will be determined at Closing but cannot increase by more than 10% than the stated amounted provided in this Paragraph. Purchaser further agrees to assume all obligations of the Seller under the terms and conditions of said lease and will honor the lessee's rights, which is limited to the end of the calendar year in which this property and transaction does close and disburse. H. Seller agrees to act in good faith to execute any documents reasonably requested by Purchaser for any approvals or consents in Seller's role as an owner of real estate, but this Agreement shall have no binding effect on any request for decisions, determinations, approvals, consent, governmental reviews, permits, or other governmental actions—whether an exercise of administrative or legislative authority—of any board, commission, committee, or public body of the Seller. IN WITNESS WHEREOF, the parties hereto have executed this Agreement under seal as of the date first above written. SELLER: HOWELL TOWNSHIP Its: PURCHASER: 7.22-2022 Its:

### **EXHIBIT A**

Legal Description of Land:

A parcel of land situated in Howell Township, Livingston County, Michigan containing approximately 18.13 acres, legally described as follows:

SEC 17 T3NR4E HOWELL TWP COMM AT THE SE COR OF SEC 17; TH ALG THE E LINE OF SEC 17 AND CL OF BURKHART RD, N00°01'51"W 816.50 FT, TO POB. TH S89°08'53"W 1323.59 FT; TH N00°05'04"W 781.23 FT; TH S89°09'15"E 1324.34 FT TH S00°01'51"E 66.01 FT; TH N89°09'15"W 519.91 FT; TH S01°06'25"W 304.95 FT TH S89°09'15"E 525.97 FT; TH S00°01'51"E, 82.12 FT; TH S89°58'09"W, 360.33 FT; TH S00°01'51"E, 148.22 FT; TH SOUTHERLY ON AN ARC RIGHT, HAVING A LENGTH OF 16.41 FT, A RADIUS OF 533.00 FEET, A CENTRAL ANGLE OF 01°45'52", AND A LONG CHORD WHICH BEARS S 00°51'05" W, 16.41 FT; TH N 89°58'09"E, 360.58 FT; TH S00°01'51"E, 124.25 FT, TO THE POB. CONT 18.13 AC M/L SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD. SPLIT/COMBINED ON 01/15/2020 FROM 4706-17-400-029, 4706-17-400-026;



# INVOICE REGISTER REPORT FOR HOWELL TOWNSHIP

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08/01/2022 03:01 PM

| Y<br>06/27/2022       | Paid   | 0.00    | 4,125.00<br>4,125.00            | 07/01/2022<br>PENSE          | Y 06/27/2022 07/<br>JUNE BRENT KILPELA<br>TWP HALL GROUNDS CARE EXPENSE                                       | LEPPEK LANDSCAPES & NURSERY<br>LAWN MAINTENANCE APRIL - J<br>101-265-931.00                      | 09146<br>21055  |
|-----------------------|--------|---------|---------------------------------|------------------------------|---|--|---|
| Y<br>06/27/2022       | Paid   | 0.00    | 400.00                          | 07/15/2022                   | 06/27/2022<br>BRENT KILPELA<br>GEN FUND ZBA FEES INCOME   | MARK & JULIE SANDERS ZBA APPLICATION REFUND 101-000-609.00                                       | 6/27/2022<br>21054  |
| Y<br>06/27/2022       | Paid   | 0.00    | 750.00<br>750.00                | 07/13/2022<br>NER EXPENSE    | C. 06/13/2022 07<br>BRENT KILPELA<br>PLANNING-CONTRACTED PLANNER  | CARLISLE WORTMAN ASSOC, INC<br>GENERAL CONSULTATION<br>101-400-801.00                            | 2165462<br>21053  |
| Y<br>06/27/2022       | Paid   | 0.00    | 32.50<br>32.50                  | 07/04/2022                   | C. 06/27/2022<br>BRENT KILPELA<br>BSP22-0003  | CARLISLE WORTMAN ASSOC, INC<br>BD Bond Refund<br>101-000-203.00                                  | 2165461<br>21052  |
| Y<br>06/22/2022       | Paid   | 0.00    | 201.75                          | 07/21/2022<br>E              | , LLC 06/21/2022<br>ELECTIONS BRENT KILPELA<br>ELECTION SUPPLIES EXPENSE                                      | SMART BUSINESS SOURCE, LLC<br>NON PROFIT STAMP FOR ELEC'<br>101-191-727.00                       | IN-7021<br>21050  |
| Y<br>06/22/2022       | Paid   | 0.00    | 1,510.00                        | 07/10/2022<br>S              | 06/12/2022<br>BRENT KILPELA<br>GEN FUND PREPAID EXPENSES  | PURCHASE POWER PREPAID POSTAGE 101-000-123.00  | 6/12/2022<br>21049  |
| 06/22/2022            | Paid   | 0.00    | 350.00<br>120.00<br>230.00      | 06/20/2022<br>EAN UP EXPENSE | ARGUS 05/31/2022 06/20/2022 BRENT KILPELA TWP AT LARGE SPRING CLEAN UP EXPENSE TWP BOARD PRINT & PUBL EXPENSE | LIVINGSTON DAILY PRESS & AN MAY PUBLICATIONS 101-268-882.00 101-101-900.00                       | 0004673438<br>21048   |
| y<br>06/22/2022       | Paid   | 0.00    | 35.63<br>35.63                  | 07/07/2022                   | 06/15/2022<br>BRENT KILPELA<br>WWTP ELECTRICITY EXPENSE   | DTE ENERGY<br>271 E HIGHLAND JUNE 2022<br>592-442-920.00   | 6/15/2022<br>21047  |
| Y<br>06/22/2022       | Paid   | 0.00    | 183.53<br>183.53                | 07/06/2022                   | 06/14/2022<br>BRENT KILPELA<br>WWTP ELECTRICITY EXPENSE   | DTE ENERGY<br>2700 TOOLEY JUNE 2022<br>592-442-920.00  | 6/14/2022<br>21046  |
| y<br>06/30/2022       | Paid   | 0.00    | 91.17<br>56.31<br>34.28<br>0.58 | 06/30/2022<br>EXPENSE        | 06/30/2022 BRENT KILPELA BOARD OF REVIEW SALARY TWP HALL OFFICE SUPPLIES TWP HALL POSTAGE EXPENSE             | HOWELL TOWNSHIP PETTY CASH PETTY CASH REPLENISHMENT 101-247-703.00 101-265-727.01 101-265-726.00 | 6/30/2022<br>21008  |
| Jrnlized<br>Post Date | Status | Amt Due | Inv Amt                         | Due Date                     | Inv Date<br>Entered By  | TWP TWP Vendor Description GL Distribution   | User: BRENT KILPELA DB: Howell Twp Inv Num Vendc Inv Ref# Desc: |

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| HOWELL   |
| TOWNSH.  |

|                 |   |         | 6,852.61  | SUBSCRIPTION EXPENSE | TWP HALL DUES & SUBSCRIE      | 101-265-957.00                              |                       |
|-----------------|---|---------|-----------|----------------------|-------------------------------|---|-----------------------|
| Y<br>07/01/2022 | Paid                                    | 0.00    | 6,852.61  | 07/01/2022           | 05/30/2022                    |   | 44655<br>21065        |
|                 |   |         | 1,031.00  |                      | WWIP CHEMICALS EXPENSE        | SODA ASH 49 BAGS<br>592-442-729.00          |                       |
| 06/28/2022<br>Y | Paid                                    | 0.00    | 1,031.00  | 07/27/2022           |                               | PVS TECHNOLOGIES, INC                       | 763365<br>21064       |
|                 |   |         | 205.00    | REPAIR EXPENSE       | TWP HALL GROUNDS EQUIP        | FIRE EXTINQUISHER INSPECTION 101-265-930.00 |                       |
| Y<br>06/28/2022 | Paid                                    | 0.00    | 205.00    | 07/15/2022           |                               | FIRE PROTECTION PLUS, INC                   | 06282<br>21063        |
|                 |   |         | 28,375.00 | EXPENSE              | REC FUND CONTRACTED SVCS      | HAPRA PART FEE 3RD QTR<br>220-000-801.00    |                       |
| Y<br>06/27/2022 | Paid                                    | 0.00    | 28,375.00 | 07/27/2022           |                               | PARKS AND REG                               | 208.0627003<br>21062  |
|                 |   |         | 765.00    | YABLE                | TRUST MOBILE HOME TAX PAYABLE | MOBILE HOME FEES<br>701-000-239.00          |                       |
| Y<br>06/27/2022 | Paid                                    | 0.00    | 765.00    | 07/15/2022           | 06/27/2022                    | TON C                                       | 6/27/2022<br>21061    |
|                 |   |         | 108.43    |                      | WWTP NATURAL GAS EXPENSE      | 2571 OAKGROVE<br>592-442-922.00             |                       |
| Y<br>06/27/2022 | Paid                                    | 0.00    | 108.43    | 07/15/2022           |                               |   | 206613589173<br>21060 |
|                 | *************************************** |         | 97.41     |                      | WWTP NATURAL GAS EXPENSE      | 1222 PACKARD DR<br>592-442-922.00           |                       |
| Y<br>06/27/2022 | Paid                                    | 0.00    | 97.41     | 07/14/2022           | 06/20/2022                    | MERS ENE                                    | 202164321232<br>21059 |
|                 |   |         | 24.05     |                      | WWTP NATURAL GAS EXPENSE      | 391 N BURKHART RD<br>592-442-922.00         |                       |
| Y<br>06/27/2022 | Paid                                    | 0.00    | 24.05     | 07/14/2022           | 06/17/2022                    | SUMERS ENERG                                | 206168805257<br>21058 |
|                 |   |         | 186.38    | EXPENSE              | TWP HALL LIFE INSURANCE       | JULY 2022<br>101-265-721.00                 |                       |
| Y<br>07/01/2022 | Paid                                    | 0.00    | 186.38    | 07/15/2022           | COMPANY 06/20/2022            | L OF OMAHA INSURANCE                        | 001378525133<br>21057 |
|                 |   |         | 52.48     | ENSE                 | TWP HALL NATURAL GAS EXPENSE  | 101-265-922.00                              |                       |
| Y<br>06/27/2022 | Paid                                    | 0.00    | 52.48     | 07/15/2022           | 06/20/2022<br>RBENT KII.DELA  | CONSUMERS ENERGY                            | 202609298445<br>21056 |
| Post Date       |   | 1       |           | i                    | Entered By                    | Description GL Distribution                 | Inv Num<br>Inv Ref#   |
| Jrnlized        | Status                                  | Amt Due | Inv Amt   | Due Date             | Thy Date                      |   |                       |
| e: 2/10         | Page:                                   |         | TOWNSHIP  | FOR HOWELL           | INVOICE REGISTER REPORT       | :01 PM                                      | 08/01/2022 03:01      |

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| Y<br>07/01/2022 | Paid          | 0.00    | 424.49<br>424.49           | 07/13/2022<br>1<br>ENSE         | 06/22/2022<br>BRENT KILPELA<br>TWP HALL TELEPHONE EXPENSE                        | COMCAST<br>JULY 2022<br>101-265-850.00  | 6/22/2022<br>21075  |
|-----------------|---------------|---------|----------------------------|---------------------------------|--|---|---|
| Y<br>06/30/2022 | р<br>ра<br>1. | 0.00    | 62.50<br>62.50             | 07/15/2022<br>1<br>ENT & REPAIR | 06/16/2022<br>BRENT KILPELA<br>TWP HALL OFFICE EQUIPMENT                         | UTS ACCOUNTING DEPT<br>SERVICE CALL<br>101-265-930.01                                       | INV-10915<br>21074  |
| Y<br>07/01/2022 | Paid          | 0.00    | 1,065.49                   | 07/15/2022                      | 06/30/2022<br>BRENT KILPELA<br>TREASURER POSTAGE                                 | ECONO PRINT<br>2022 SUMMER TAX BILLS<br>101-253-726.01                                      | 68364<br>21073  |
| Y<br>06/30/2022 | Paid          | 0.00    | 227.28                     | 07/15/2022<br>s Expense         | 06/30/2022<br>BRENT KILPELA<br>TWP HALL OFFICE SUPPLIES                          | SMART BUSINESS SOURCE, LLC OFFICE SUPPLIES 101-265-727.01                                   | OE-52570-1<br>21072   |
| Y<br>06/30/2022 | Paid          | 0.00    | 155.25<br>155.25           | 07/27/2022<br>SVCS EXPENSE      | 06/27/2022<br>BRENT KILPELA<br>ENGINEERING CONTRACTED                            | SPICER GROUP<br>DANGEROUS BUILDINGS<br>101-447-801.00                                       | 214836<br>21071   |
| Y<br>06/30/2022 | Paid          | 0.00    | 13,428.57                  | 07/17/2022                      | 06/17/2022<br>BRENT KILPELA<br>ROAD CHLORIDE EXPENSE                             | CHLORIDE SOLUTIONS, LLC DUST CONTROL 204-000-802.00   | CS100139<br>21070   |
| Y<br>06/30/2022 | Paid          | 0.00    | 2,840.00                   | 07/15/2022<br>UNIT (MHOG)       | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO OTHER GOV                            | MHOG<br>MHOG METERS FOR JUNE 2022<br>701-000-210.00   | 6/30/2022<br>21069  |
| Y<br>06/30/2022 | Paid          | 0.00    | 31.12                      | 07/15/2022<br>ELA<br>EXPENSES   | 06/30/2022<br>BRENT KILPELA<br>TREASURER MILEAGE & EXP                           | CAROL MAKUSHIK<br>DEPUTY TREASURER MILEAGE<br>101-253-860.00                                | 6/30/2022<br>21068  |
| Y<br>06/29/2022 | Paid          | 0.00    | 442.92<br>187.79<br>255.13 | 07/15/2022<br>SES<br>EXPENSE    | 06/29/2022 NSES BRENT KILPELA ZONING MILEAGE & EXPENSES TWP HALL OFFICE SUPPLIES | JULIUS DAUS III<br>ZONING ADMINISTRATOR EXPENSES<br>101-402-860.00 ZOI<br>101-265-727.01 TW | 6/29/2022<br>21067  |
| Y<br>07/01/2022 | Paid          | 0.00    | 195.00                     | 07/15/2022<br>NG EXPENSE        | 06/30/2022<br>BRENT KILPELA<br>TWP HALL OFFICE CLEANING                          | PERFECT MAINTENANCE<br>JULY 2022<br>101-265-775.00  | 5720<br>21066   |
| J <sub>T</sub>  | Status        | Amt Due | Inv Amt                    | Due Date                        | INVOICE REGISTER REPORT INV Date Entered By                                      | 03:01 PM  TWP  Vendor  Description  GL Distribution   | 08/01/2022 03:01 PM User: BRENT KILPELA DB: Howell Twp Inv Num Vendo Inv Ref# Desc: |
| e: 3/10         | Page:         |         | TOWNSHIP                   | FOR HOWELL                      |  |   |   |

## INVOICE REGISTER REPORT FOR HOWELL TOWNSHIP

| Y<br>07/05/2022    | Paid            | 0.00    | 23,886.99<br>23,886.99                     | 07/30/2022<br>S EXPENSE                   | 07/01/2022<br>BRENT KILPELA<br>WWTP CONTRACTED SERVICES  | GENOA TOWNSHIP DPW<br>JULY 2022<br>592-538-801.00  | 11082018-437<br>21085   |
|--------------------|-----------------|---------|--|---|--|--|---|
| 06/30/2022         | Paid            | 0.00    | 699.45<br>699.45                           | 07/15/2022<br>ELA<br>LIBRARY              | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO HOWELL LIB   | HOWELL CARNEGIE LIBRARY<br>DPPT JAN - JUNE 2022<br>701-000-223.00                                  | 6/30/2022<br>21084  |
| Y<br>06/30/2022    | Paid            | 0.00    | 517.92<br>517.92                           | 07/15/2022                                | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO LESA   | LIV EDUC SERVICE AGENCY<br>DPPT JAN - JUNE 2022<br>701-000-227.00                                  | 6/30/2022<br>21083  |
| 06/30/2022         | Paid            | 0.00    | 962.15<br>962.15                           | 07/15/2022<br>RE AUTH                     | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO HOWELL FIRE  | HOWELL AREA FIRE AUTHORITY<br>DPPT JAN - JUNE 2022<br>701-000-234.00                               | 6/30/2022<br>21082  |
| ° 06/30/2022       | Paid            | 0.00    | 2,372.09                                   | 07/15/2022<br>HLS DEBT                    | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO HOWELL SCHLS   | HOWELL PUBLIC SCHOOLS DPPT JAN - JUNE 2022 701-000-225.01  | 6/30/2022<br>21081  |
| 06/30/2022         | Pa i d          | 0.00    | 1,216.83                                   | 07/15/2022<br>ILS OPER                    | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO HOWELL SCHLS   | HOWELL PUBLIC SCHOOLS<br>DPPT JAN - JUNE 2022<br>701-000-225.00                                    | 6/30/2022<br>21080  |
| y<br>06/30/2022    | Paid            | 0.00    | 1,873.05                                   | 07/15/2022                                | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO COUNTY   | LIVINGSTON COUNTY TREASURER<br>DPPT - JAN - JUNE 2022<br>701-000-228.00                            | 6/30/2022<br>21079  |
| Y<br>06/30/2022    | Paid            | 0.00    | 55.50                                      | 07/15/2022<br>LICENSE                     | 06/30/2022<br>BRENT KILPELA<br>TRUST DUE TO COUNTY DOG   | LIVINGSTON COUNTY TREASURER DOG LICENSES JUNE 2022 701-000-238.00                                  | 6/30/2022<br>21078  |
| 07/01/2022         | Paid            | 0.00    | 248.63<br>248.63                           | 07/11/2022                                | 06/19/2022<br>BRENT KILPELA<br>WWTP TELEPHONE EXPENSE  | AT&T<br>WWTP JULY 2022<br>592-538-850.00   | 150560912<br>21077  |
| Y<br>06/30/2022    | Paid            | 0.00    | 250.79<br>97.04<br>28.03<br>50.00<br>75.72 | 07/15/2022 EXPENSES PENSE EXPENSE EXPENSE | 06/30/2022 0.  BRENT KILPELA  TREASURER MILEAGE & EXPENSE ELECTION POSTAGE EXPENSE TREASURER EDUCATION EXPENSE TWP HALL OFFICE EQUIPMENT & | JONATHAN HOHENSTEIN TREASURER EXPENSES 101-253-860.00 101-191-726.00 101-253-720.00 101-255-930.01 | 6/30/2022<br>21076  |
| Jrnlized Post Date | Page:<br>Status | Amt Due | TOWNSHIP  Inv Amt                          | FOR HOWELL                                | INVOICE REGISTER REPORT INV Date Entered By  | ::01 PM<br>(ILPELA<br>P<br>Vendor<br>Description<br>GL Distribution                                | 08/01/2022 03:01 PM User: BRENT KILPELA DB: Howell Twp Inv Num Vendo Inv Ref# Desci |

| Y<br>07/11/2022       | Paid   | 0.00    | 29.90<br>29.90         | 08/15/2022<br>NSE          | 07/08/2022<br>BRENT KILPELA<br>WWTP MISCELLANEOUS EXPENSE    | TRUE VALUE HARDWARE<br>KEYS<br>592-538-956.00                            | 9351<br>21095                         |
|-----------------------|--------|---------|------------------------|----------------------------|--|--|---------------------------------------|
| Y<br>06/30/2022       | Paid   | 0.00    | 28,746.90<br>28,746.90 | 07/28/2022<br>EXPENSE      | 06/29/2022<br>BRENT KILPELA<br>WWTP BIOSOLIDS REMOVAL        | BIOTECH AGRONOMICS, INC<br>BIOSOLIDS HAULING JUNE 21-<br>592-442-969.01  | 3124<br>21094                         |
| y<br>06/30/2022       | Paid   | 0.00    | 5,914.50<br>5,914.50   | 08/05/2022<br>EXPENSE      | 07/06/2022<br>2022 BRENT KILPELA<br>WWTP CONTRACTED SERVICES | GENOA TOWNSHIP DPW<br>MHOG UTIL DEPT APR - MAY<br>592-442-801.00         | 11082018-443<br>21093                 |
| 06/30/2022            | Paid   | 0.00    | 118.63                 | 07/30/2022<br>N UP EXPENSE | 06/30/2022<br>BRENT KILPELA<br>TWP AT LARGE SPRING CLEAN     | JEAN GRAHAM<br>CLERK EXPENSES<br>101-268-882.00                          | 6/30/2022<br>21092                    |
| Y<br>07/07/2022       | Paid   | 0.00    | 81.47                  | 07/17/2022<br>EXPENSE      | 07/07/2022<br>BRENT KILPELA<br>TWP HALL OFFICE CLEANING      | CINTAS CORPORATION<br>BLUE MATS<br>101-265-775.00                        | 4124585049<br>21091                   |
| Y<br>06/30/2022       | Paid   | 0.00    | 647.00                 | 07/20/2022<br>NSE          | 06/30/2022 0<br>BRENT KILPELA<br>TWP HALL IT SUPPORT EXPENSE | MICRO WORKS COMPUTING, INC<br>INSTALL DYMO PRINTERS<br>101-265-728.01    | 64553<br>21090                        |
| Y<br>06/30/2022       | Paid   | 0.00    | 399.50                 | 07/20/2022<br>NSE          | 06/30/2022 0. BRENT KILPELA TWP HALL IT SUPPORT EXPENSE      | MICRO WORKS COMPUTING, INC<br>INSTALL BATTERY BACKUPS<br>101-265-728.01  | 64543<br>21089                        |
| 06/30/2022            | Paid   | 0.00    | 187.50                 | 07/20/2022<br>NSE          | 06/30/2022 0. SSD BRENT KILPELA TWP HALL IT SUPPORT EXPENSE  | MICRO WORKS COMPUTING, INC<br>INSTALL WINDOWS, AND NEW<br>101-265-728.01 | 64538<br>21088                        |
| Y<br>06/30/2022       | Paid   | 0.00    | 150.00                 | 07/13/2022                 | 06/23/2022 0. BRENT KILPELA TWP HALL IT SUPPORT EXPENSE      | MICRO WORKS COMPUTING, INC<br>SERVICE CALL<br>101-265-728.01             | 64512<br>21087                        |
| Y<br>07/05/2022       | Paid   | 0.00    | 460.46                 | 08/10/2022<br>EXPENSE      | 06/30/2022<br>BRENT KILPELA<br>TWP AT LARGE STREETLIGHT      | DTE ENERGY<br>STREETLIGHTS<br>101-268-920.00                             | 200053729247<br>21086                 |
| Jrnlized<br>Post Date | Status | Amt Due | Inv Amt                | Due Date                   | Inv Date<br>Entered By                                       | Wendor Description GL Distribution                                       | DB: Howell Twp<br>Inv Num<br>Inv Ref# |
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| Y<br>07/12/2022       | Paid   | 0.00    | 317.48<br>317.48         | )22 07/26/2022<br>ILPELA<br>EXPENSE      | 07/01/20<br>BRENT K<br>WWTP ELECTRICITY                                      | DTE ENERGY<br>2571 OAK GROVE RD JULY 2022<br>592-538-920.00                          | 7/1/2022<br>21105  |
|-----------------------|--------|---------|--------------------------|--|--|--|--|
| Y<br>06/30/2022       | Paid   | 0.00    | 160.00<br>80.00<br>80.00 | 07/20/2022<br>PELA<br>INT & PUBL EXPENSE | ARGUS 06/30/2022 BRENT KILPELA BOARD OF APPEALS PRINT TWP BOARD PRINT & PUBL | LIVINGSTON DAILY PRESS & AF<br>JUNE PUBLICATIONS<br>101-412-900.00<br>101-101-900.00 | 0004748399<br>21104  |
| 07/12/2022            | Paid   | 0.00    | 845.00                   | 08/06/2022<br>PELA<br>T.                 | INC. 07/06/2022<br>F 8) BRENT KILPELA<br>GROUNDS CARE & MAINT.               | COMPLETE OUTDOOR SERVICES, CEMETERY MAINTENANCE (3 OF 101-276-931.00                 | 3383<br>21103  |
| 06/30/2022            | Paid   | 0.00    | 1,416.00<br>1,416.00     | 08/01/2022<br>PELA<br>EXPENSE            | IS PLC 07/01/2022 BRENT KILPELA TWP AT LARGE LEGAL EXPENSE                   | FAHEY SCHULTZ BURZYCH RHODES<br>OAKLAND TACTICAL<br>101-268-801.01                   | 4160<br>21102  |
| 06/30/2022            | Paid   | 0.00    | 1,934.00<br>1,934.00     | 08/01/2022<br>ELA<br>EXPENSE             | S PLC 07/01/2022 (BRENT KILPELA TWP AT LARGE LEGAL EXPENSE                   | FAHEY SCHULTZ BURZYCH RHODES<br>GENERAL<br>101-268-801.01                            | 4159<br>21101  |
| Y<br>06/30/2022       | Pa i d | 0.00    | 9,228.50<br>9,228.50     | PELA<br>EXPENSE                          | PLC 07/01/2022<br>BRENT KIL<br>IWP AT LARGE LEGAL                            | FAHEY SCHULTZ BURZYCH RHODES RAINBOW 101-268-801.01                                  | 4158<br>21100  |
| Y<br>07/01/2022       | Paid   | 0.00    | 12.00                    | 07/30/2022<br>TH SUPPLIES EXPENSE        | 06/30/2022 07/31/7/31/22 BRENT KILPELA TWP HALL KITCHEN/BATH SUPPLIES        | ABSOPURE<br>COOLER RENTAL 7/1/22 - 7/3<br>101-265-727.00                             | 59451574<br>21099  |
| Y<br>07/11/2022       | Paid   | 0.00    | 486.35<br>486.35         | 08/01/2022<br>ELA<br>TAGE EXPENSE        | 07/01/2022<br>BRENT KILPELA<br>UTILITY BILLING POSTAGE                       | PRINTING SYSTEMS UTILITY BILL STOCK 592-537-726.00                                   | 224015<br>21098  |
| Y<br>07/11/2022       | Paid   | 0.00    | 20.00                    | 07/31/2022<br>ELA<br>IPTION EXPENSE      | 07/11/2022<br>BRENT KILPELA<br>CLERK DUES & SUBSCRIPTION                     | LIV CO MUNIC CLERKS ASSOC<br>2022/2023 DUES<br>101-215-957.00                        | 7/11/2022<br>21097   |
| Y<br>06/30/2022       | Paid   | 0.00    | 427.29<br>427.29         | 08/07/2022<br>ELA<br>KPENSE              | 07/07/2022<br>BRENT KILPELA<br>ELECTION SUPPLIES EXPENSE                     | APPLIED IMAGING<br>ELECTION MANUAL COPIES<br>101-191-727.00                          | 1998828<br>21096   |
| Jrnlized<br>Post Date | Status | Amt Due | Inv Amt                  | Due Date                                 | Inv Date<br>Entered By   | XILPELA  MP  Vendor  Description  GL Distribution                                    | User: BRENT KILPELA DB: Howell Twp Inv Num Vendo Inv Ref# Desc |
| e: 6/10               | Page:  |         | TOWNSHIP                 | FOR HOWELL                               | INVOICE REGISTER REPORT  | 03:01 PM   | /2022  |

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|--|-----------------|--------|---------|--------------------------|---------------------------|--|---|--|
| TWP WILDERIAN  TYP  WENDOT  INV Date  Due Date  Date | Y<br>07/18/2022 | Paid   | 0.00    | 53,215.17<br>53,215.17   | 07/18/2022<br>DEBT SUMMER | 07/18/2022<br>7/15/22 BRENT KILPELA<br>TAX DUE TO HOWELL SCHLS | SCHOOLS<br>PAXES 7/1/22   | 7/18/2022<br>21114                                   |
| TWE CANDER OF THE PRINTER OF THE HALL DEFICE SUPPLIES EXPENSE 101-265-727.01  PURCHASE SERVICES 107/13/2022 07 | Y<br>06/30/2022 | Paid   | 0.00    | 1,002.50                 | 08/12/2022<br>VCS EXPENSE | 1 -  |   | 215116<br>21113                                      |
| TWEIT INTEGRAL INVOLVE REGISTER REPORT FOR THE PRESENT OF THE PRESENT FOR THE PRESENT OF THE PRE | Y<br>06/30/2022 | Pa i d | 0.00    | 786.25<br>786.25         | 08/12/2022<br>VCS EXPENSE | /12/2022<br>ENT KILPELA<br>CONTRACTED                          | L.  | 215123<br>21112                                      |
| TWIDELAN TWO THE PROTEST TO THE PROPERTY OF THE PERSON FOR FORTH PROPERTY OF THE PERSON FOR FORTH PROPERTY OF THE PERSON FOR FORTH PERSON FOR FOR FORTH PERSON FOR FORTH PERSON FOR FORTH PERSON FOR FORTH PERSON  | v<br>06/30/2022 | Paid   | 0.00    | 750.00<br>750.00         | 08/12/2022<br>NER EXPENSE |  | AN ASSOC,<br>LTATION  | 2165686<br>21111                                     |
| TWELTHELA  TWENTY  TRILIPELA  TWENTY  TRILIPELA  TWENTY  TRILIPELA  TWENTY  Vendor  Vendor  Vendor  Vendor  Vendor  Description  GL Distribution  GL Distribution  DTE ENERGY  1019 N BURKHART JULY 2022  BRENT KILPELA  592-538-920.00  MWTP ELECTRICITY EXPENSE  DTE ENERGY  1009 N BURKHART JULY 2022  BRENT KILPELA  592-538-920.00  WWTP ELECTRICITY EXPENSE  GRANGER WASTE SERVICES  JULY 2022 GARBAGE SERVICE  GRANGER WASTE SERVICES  101-265-775.00  TWP HALL OFFICE CLEANING EXPENSE  DUB Date  INV Amt Due Status  Amt Due Status  PART Due Status  PART Die Status  Onco Paid  101-265-775.00  Paid  DRENT KILPELA  101-265-775.00  Paid  DRENT KILPELA  TWP HALL OFFICE CLEANING EXPENSE  NO 0.00  Paid  BRENT KILPELA  101-265-726.00  Paid  PORCHASE POWER  BRENT KILPELA  TWP HALL POSTAGE EXPENSE  NO 0.00  Paid  PART MILPELA  101-265-726.00  Paid  PART MILPELA  ON 0.00  Paid  PART Due Status  On 0.00  Paid  PART DUE STAGE EXPENSE  NO 0.00  Paid  PART MILPELA  ON 0.00  PAID  PART MILPELA  PART MILPELA  PART MILPELA  ON 0.00  PAID  PART MILPELA  PART MILPELA  NO 0.00  PAID  PART MILPELA  PA | Y<br>07/13/2022 | Paid   | 0.00    | 260.75<br>260.75         | 08/13/2022<br>EXPENSE     | 07/13/2<br>BRENT 1<br>HALL OFFICE                              | SOURCE,   | OE-52980-1<br>21110                                  |
| TWP Vendor Description GI Distribution  DTE ENERGY 1009 N BURKHART JULY 2022 1009 N BURKHART JUL | Y<br>07/13/2022 | Paid   | 0.00    | 88.12<br>88.12           | 08/07/2022                | HALL   | PURCHASE POWER TWP POSTAGE 101-265-726.00                             | 7/11/2022<br>21109                                   |
| TWO THE INVOICE REGISTER REFORM FOR HOWELL TOWNSHIP TOWNSHIP TO THE PERCENT FOR HOWELL TOWNSHIP TOWNSH | 07/12/2022      | Paid   | 0.00    | 20.71                    | 07/25/2022<br>EXPENSE     | 06/30/2<br>BRENT :<br>HALL OFFICE                              | SERVI<br>(BAGE  | 28896500<br>21108                                    |
| TWP Vendor Vendor GL Distribution  DTE ENERGY 391 N BURKHART JULY 2022  MWTP ELECTRICITY EXPENSE  TO DESCRIPT FOR HOWEH FOR HO | Y<br>07/12/2022 | Paid   | 0.00    | 111.80                   | 07/27/2022                | i  | ENERGY<br>9 N BURKHART JULY<br>-538-920.00                            | 7/5/2022<br>21107                                    |
| TWP  Vendor  Description  Entered By  GL Distribution  | y<br>07/12/2022 | Paid   | 0.00    | 71.23                    | 07/27/2022                |  | ENERGY<br>N BURKHART JULY<br>-538-920.00                              | 7/5/2022<br>21106                                    |
| 03.01 DM FARCICE DECICEES DEDOED FOR HOWELL TOWNSHIP   |                 | Status | Amt Due | TOWNSHIP                 | FOR HOWELL Due Date       | GIST.  | 01 :<br>LPE:<br>Ven<br>Des<br>GL                                      | 08/01/2022 (User: BRENT DB: Howell 'Inv Num Inv Ref# |

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| Y<br>07/18/2022       | Paid   | 0.00    | 210.62<br>210.62       | 08/02/2022            | 07/11/2022<br>BRENT KILPELA<br>WWTP ELECTRICITY EXPENSE                                   | DTE ENERGY<br>1034 AUSTIN CT JU<br>592-538-920.00                           | 7/11/2022<br>21125  |
|-----------------------|--------|---------|------------------------|-----------------------|---|---|---|
| Y<br>07/18/2022       | Paid   | 0.00    | 348.57                 | 08/02/2022            | 07/11/2022<br>RD JULY 2022 BRENT KILPELA<br>WWTP ELECTRICITY EXPENSE                      | DTE ENERGY<br>1575 N BURKHART RI<br>592-538-920.00                          | 7/11/2022<br>21124  |
| Y<br>07/18/2022       | Paid   | 0.00    | 3,976.96               | 08/02/2022            | 07/11/2022<br>JULY 2022 BRENT KILPELA<br>WWTP ELECTRICITY EXPENSE                         | DTE ENERGY<br>1222 PACKARD DRIVE<br>592-538-920.00                          | 7/11/2022<br>21123  |
| Y<br>07/18/2022       | Paid   | 0.00    | 67.75<br>67.75         | 08/02/2022            | 07/11/2022<br>BRENT KILPELA<br>WWTP ELECTRICITY EXPENSE                                   | DTE ENERGY<br>3888 OAKGROVE JULY<br>592-538-920.00                          | 7/11/2022<br>21122  |
| Y<br>07/18/2022       | Paid   | 0.00    | 22.01                  | 08/02/2022            | 07/11/2022 JULY 2022 WWTP ELECTRICITY EXPENSE   | DTE ENERGY<br>1216 PACKARD DR JI<br>592-538-920.00                          | 7/11/2022<br>21121  |
| Y<br>07/18/2022       | Paid   | 0.00    | 202.21                 | 08/02/2022            | 07/11/2022<br>ERENT KILPELA<br>WWTP ELECTRICITY EXPENSE                                   | DTE ENERGY<br>2559 W GRAND RIVER<br>592-538-920.00                          | 7/11/2022<br>21120  |
| Y<br>07/18/2022       | Paid   | 0.00    | 2,408.00               | 08/14/2022<br>EXPENSE | ATIONAL INC 07/14/2022<br>PRENT KILPELA<br>TWP HALL COMPUTER SUPPORT                      | PICTOMETRY INTERNATIONAL<br>2022 CHANGE FINDER<br>101-265-728.00            | US4344554<br>21119  |
| 07/18/2022            | Paid   | 0.00    | 64,311.43<br>64,311.43 | 07/18/2022            | TREASURER 07/18/2022<br>7/1/22 - 7/15/22 BRENT KILPELA<br>TAX DUE TO COUNTY SUMMER        | LIVINGSTON COUNTY TREASURER<br>2022 SUMMER TAXES 7/1/22 -<br>703-000-228.00 | 7/18/2022<br>21118  |
| 07/18/2022            | Paid   | 0.00    | 64,177.16<br>64,177.16 | 07/18/2022            | AGENCY 07/18/2022<br>S 7/1/22 - 7/15/22 BRENT KILPELA<br>TAX DUE TO LESA SUMMER           | LIV EDUC SERVICE AG<br>2022 SUMMER TAXES<br>703-000-227.00                  | 7/18/2022<br>21117  |
| Y<br>07/18/2022       | Paid   | 0.00    | 120,250.44             | 07/18/2022<br>MER     | TREASURER 07/18/2022 07<br>7/1/22 - 7/15/22 BRENT KILPELA<br>TAX DUE TO COUNTY SET SUMMER | LIVINGSTON COUNTY TREASURER<br>2022 SUMMER TAXES 7/1/22 -<br>703-000-228.01 | 7/18/2022<br>21116  |
| Jrnlized<br>Post Date | Status | Amt Due | Inv Amt                | Due Date              | Inv Date<br>Entered By  | TWP Vendor Description GL Distribution                                      | User: BRENT KILPELA DB: Howell Twp Inv Num Vendo Inv Ref# Desci |
| e: 8/10               | Page:  |         | TOWNSHIP               | FOR HOWELL            | INVOICE REGISTER REPORT   | 03:01 PM  | 08/01/2022 (  |

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INVOICE REGISTER REPORT FOR HOWELL TOWNSHIP

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|                      | 0.00 0.00<br>586,439.24 0.00<br>Agrees with Check Resister  6 K | 0.00<br>586,439.24<br>Agrees -: 1h | ı                              | Totals:   | Due: 0           | Credit Memos:  | # of Credit Memos: Net of Invoices and                            |
|----------------------|---|------------------------------------|--------------------------------|---|------------------|--|---|
| Paid                 |   | 20.00                              | 08/12/2022<br>EXPENSE          | FICE 07/12/2022 BRENT KILPELA TREASURER PRINT & PUBL                      | O                | EASU<br>T AI   | TD1855 GREE<br>21130 SUM<br>101-                                  |
| Paid Y<br>07/18/2022 | 0.00  | 8,614.00<br>5,095.00<br>3,519.00   | 08/31/2022<br>RT EXPENSE<br>SE | 08/01/2022 ONLI BRENT KILPELA HALL COMPUTER SUPPORT HALL WEB SITE EXPENSE | PR, UB, C<br>TWP | BS&A SOFTWARE<br>BUILDING, AP, CR, GL,<br>101-265-728.00<br>101-265-851.00 | 142368<br>21129<br>BUIL<br>101-2                                  |
| Paid Y<br>07/18/2022 | 0.00  | 535.11<br>535.11                   | 08/02/2022<br>PENSE            | 07/11/2022 08<br>BRENT KILPELA<br>HALL ELECTRICITY EXPENSE                | I dML            | DTE ENERGY TWP HALL JULY 2022 101-265-920.00                               | 7/11/2022<br>21128 DTE<br>TWP<br>101-                             |
| Paid Y<br>07/18/2022 | 0.00  | 50.00                              | 07/25/2022                     | 07/18/2022<br>BRENT KILPELA<br>BSP20-0006                                 | BSP2             | TETRA TECH INC<br>BD Bond Refund<br>101-000-203.00                         | 51921173<br>21127<br>BD E<br>101-                                 |
| Paid Y 07/18/2022    | 0.00  | 173.16<br>173.16                   | 08/04/2022                     | 07/13/2022<br>BRENT KILPELA<br>ELECTRICITY EXPENSE                        | NWTP             | DTE ENERGY<br>2700 TOOLEY JULY 2022<br>592-538-920.00                      | 7/13/2022 DTE<br>21126 2700<br>592-                               |
| Status               | Amt Due S   | Inv Amt                            | Due Date                       | Inv Date<br>Entered By  |                  | JPELA Vendor Description GL Distribution                                   | User: BRENT KILPELA DB: Howell Twp Inv Num Vendor Inv Ref# Descri |

## INVOICE REGISTER REPORT FOR HOWELL TOWNSHIP

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| 538 - WWTP | 537 - CHARGES FOR SERVICES | 447 - ENGINEERING | 442 - WWTP | 412 - BOARD OF APPEALS | ı   | 0    | - CEMETERY | ı       | I   | 253 - TREASURER | 247 - BOARD OF REVIEW | 215 - CLERK | 191 - ELECTIONS | 101 - TOWNSHIP BOARD | 000 - OTHER | TOTALS BY DEPT/ACTIVITY | 703 - TAX FUND | 701 - TRUST & AGENCY | 592 - SWR/WTR | 220 - RECREATION FUND | 204 - ROAD FUND | 101 - GENERAL FUND | TOTALS BY FUND | GL Distribution |
|------------|----------------------------|-------------------|------------|------------------------|-----|------|------------|---------|-----|-----------------|-----------------------|-------------|-----------------|----------------------|-------------|-------------------------|----------------|----------------------|---------------|-----------------------|-----------------|--------------------|----------------|-----------------|
| `          | 486.3                      | ,944.0            | 141.4      | 80.0                   | 87. | 00.0 | 45.0       | 3,277.5 | 0.6 | ,263.6          | 56.3                  | 0.0         | 57.0            |                      | 02.1        |                         | 8,804.0        | -                    | 6,295.1       | 8,375.0               | 3,428.          | 8,234.5            | :<br>:<br>:    |                 |
|            | 0.00                       |                   | ٠          | •                      | •   | •    | •          |         | •   | •               | •                     | •           | •               | ٠                    | •           | )                       |                | 0.00                 | •             | •                     | •               | ٠                  | )              |                 |

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Total of 5 Checks:

### CHECK REGISTER FOR HOWELL TOWNSHIP CHECK DATE FROM 07/01/2022 - 07/31/2022

HOWELL TOWNSHIP Page: 1/2

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| heck Date                        | Bank              | Check          | Vendor Name  | Amount                  |
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| 7/05/2022                        | GEN               | 101001750(E)   | CONSUMERS ENERGY   | 52.48<br>782.50         |
| 17/05/2022                       | GEN               | 18130<br>18131 | CARLISLE WORTMAN ASSOC, INC. COMCAST                       | 424.49                  |
| )7/05/2022<br>)7/05/2022         | GEN<br>GEN        | 18132          | JULIUS DAUS III  | 442.92                  |
| 7/05/2022                        | GEN               | 18133          | DTE ENERGY   | 460.46                  |
| 7/05/2022                        | GEN               | 18134          | ECONO PRINT  | 1,065.49                |
| 7/05/2022                        | GEN               | 18135          | FIRE PROTECTION PLUS, INC                                  | 205.00                  |
| 7/05/2022                        | GEN               | 18136          | JONATHAN HOHENSTEIN  | 250.79                  |
| 7/05/2022                        | GEN               | 18137          | HOWELL PARKS AND RECREATION                                | 28,375.00               |
| 7/05/2022                        | GEN               | 18138          | LEPPEK LANDSCAPES & NURSERY                                | 4,125.00                |
| 7/05/2022                        | GEN               | 18139          | LIVINGSTON DAILY PRESS & ARGUS                             | 350.00<br>31.12         |
| 7/05/2022<br>7/05/2022           | GEN<br>GEN        | 18140<br>18141 | CAROL MAKUSHIK CHLORIDE SOLUTIONS, LLC                     | 13,428.57               |
| 7/05/2022                        | GEN               | 18142          | MICRO WORKS COMPUTING, INC                                 | 1,384.00                |
| 7/05/2022                        | GEN               | 18143          | MARK & JULIE SANDERS                                       | 400.00                  |
| 7/05/2022                        | GEN               | 18144          | MICHIGAN TWP ASSOC   | 6,852.61                |
| 7/05/2022                        | GEN               | 18145          | MUTUAL OF OMAHA INSURANCE COMPANY                          | 186.38                  |
| 7/05/2022                        | GEN               | 18146          | PERFECT MAINTENANCE  | 195.00                  |
| 7/05/2022                        | GEN               | 18147          | HOWELL TOWNSHIP PETTY CASH                                 | 91.17                   |
| 7/05/2022                        | GEN               | 18148          | PURCHASE POWER   | 1,510.00                |
| 7/05/2022                        | GEN               | 18149          | SMART BUSINESS SOURCE, LLC<br>SPICER GROUP                 | 429.03<br>155.25        |
| 17/05/2022<br>17/05/2022         | GEN<br>GEN        | 18150<br>18151 | UTS ACCOUNTING DEPT  | 62.50                   |
| 7/19/2022                        | GEN               | 10101751(E)    | DTE ENERGY   | 535.11                  |
| 7/19/2022                        | GEN               | 18152          | ABSOPURE   | 12.00                   |
| 7/19/2022                        | GEN               | 18153          | APPLIED IMAGING  | 427.29                  |
| 7/19/2022                        | GEN               | 18154          | BS&A SOFTWARE  | 8,614.00                |
| 7/19/2022                        | GEN               | 18155          | CARLISLE WORTMAN ASSOC, INC.                               | 750.00                  |
| 7/19/2022                        | GEN               | 18156          | CINTAS CORPORATION   | 81.47                   |
| 7/19/2022                        | GEN               | 18157          | COMPLETE OUTDOOR SERVICES, INC.                            | 845.00                  |
| 7/19/2022                        | GEN               | 18158          | FAHEY SCHULTZ BURZYCH RHODES PLC                           | 12,578.50<br>118.63     |
| 7/19/2022                        | GEN<br>GEN        | 18159<br>18160 | JEAN GRAHAM<br>GRANGER WASTE SERVICES                      | 20.71                   |
| 07/19/2022                       | GEN               | 18161          | GREEN OAK TWP TREASURER'S OFFICE                           | 20.00                   |
| 7/19/2022                        | GEN               | 18162          | LIV CO MUNIC CLERKS ASSOC                                  | 20.00                   |
| 7/19/2022                        | GEN               | 18163          | LIVINGSTON DAILY PRESS & ARGUS                             | 160.00                  |
| 07/19/2022                       | GEN               | 18164          | PICTOMETRY INTERNATIONAL INC                               | 2,408.00                |
| 07/19/2022                       | GEN               | 18165          | PURCHASE POWER   | 88.12                   |
| 07/19/2022                       | GEN               | 18166          | SMART BUSINESS SOURCE, LLC                                 | 260.75                  |
| 07/19/2022                       | GEN               | 18167          | SPICER GROUP   | 1,788.75                |
| 07/19/2022                       | GEN               | 18168          | TETRA TECH INC   | 50.00                   |
| GEN TOTALS:                      | ,                 |                |  | 00 039 00               |
| Total of 41 Ch<br>Less 0 Void Ch |                   |                |  | 90,038.09               |
| rotal of 41 Di                   | sbursements       | s:             |  | 90,038.09               |
| Bank T&A TR                      | UST & AGE         | NCY CHECKING   |  |                         |
| 07/05/2022                       | T&A               | 3537           | HOWELL AREA FIRE AUTHORITY                                 | 962.15                  |
| 07/05/2022                       | A&T               | 3538           | HOWELL CARNEGIE LIBRARY                                    | 699.45                  |
| 07/05/2022                       | T&A               | 3539           | HOWELL PUBLIC SCHOOLS HOWELL PUBLIC SCHOOLS                | 1,216.83<br>2,372.09    |
| 07/05/2022                       | T&A<br>T&A        | 3540<br>3541   | LIV EDUC SERVICE AGENCY                                    | 517.92                  |
| 07/05/2022<br>07/05/2022         | T&A               | 3542           | MHOG   | 2,840.00                |
| 07/05/2022                       | T&A               | 3543           | LIVINGSTON COUNTY TREASURER                                | 765.00                  |
| 7/05/2022                        | T&A               | 3544           | LIVINGSTON COUNTY TREASURER                                | 55.50                   |
| 7/05/2022                        | T&A               | 3545           | LIVINGSTON COUNTY TREASURER                                | 1,873.05                |
| T&A TOTALS:                      |                   |                |  |                         |
| rotal of 9 Che<br>Less 0 Void Ch |                   |                |  | 11,301.99<br>0.00       |
| Total of 9 Dis                   |                   | :              |  | 11,301.99               |
| Bank TAX TA                      | X CHECKIN         | G              |  |                         |
| 07/18/2022                       | TAX               | 5679           | HOWELL PUBLIC SCHOOLS                                      | 53,215.17               |
| 07/18/2022                       | TAX               | 5680           | HOWELL PUBLIC SCHOOLS                                      | 116,849.85              |
| 01,20,2022                       |                   | 5681           | LIV EDUC SERVICE AGENCY                                    | 64,177.16               |
| 07/18/2022                       | TAX               |                |  |                         |
|                                  | TAX<br>TAX<br>TAX | 5682<br>5683   | LIVINGSTON COUNTY TREASURER<br>LIVINGSTON COUNTY TREASURER | 120,250.44<br>64,311.43 |

08/01/2022 02:55 PM User: BRENT KILPELA DB: Howell Twp

### CHECK REGISTER FOR HOWELL TOWNSHIP CHECK DATE FROM 07/01/2022 - 07/31/2022

Page: 2/2

BK

| Check Date   | Bank         | Check   | Vendor Name  | Amount   |
|--|--------------|---|--|--|
| Less 0 Void Ch   | ecks:        |   |  | 0.00   |
| Total of 5 Dis   | bursements:  |   |  | 418,804.05   |
| Bank UTYCK (   | UTILITY CH   | ECKING  |  |  |
| 07/06/2022<br>07/06/2022<br>07/06/2022<br>07/06/2022<br>07/06/2022<br>07/06/2022<br>07/06/2022<br>07/06/2022<br>07/06/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022<br>07/19/2022 | necks:       | 2895 2896 590003629(E) 590003631(E) 590003631(E) 590003633(E) 590003634(E) 2897 2898 2899 2900 590003636(E) 590003637(E) 590003637(E) 590003639(E) 590003641(E) 590003642(E) 590003642(E) 590003642(E) 590003644(E) | GENOA TOWNSHIP DPW PVS TECHNOLOGIES, INC AT&T CONSUMERS ENERGY CONSUMERS ENERGY CONSUMERS ENERGY DTE ENERGY DTE ENERGY BIOTECH AGRONOMICS, INC GENOA TOWNSHIP DPW PRINTING SYSTEMS TRUE VALUE HARDWARE DTE ENERGY | 23,886.99 1,031.00 248.63 24.05 97.41 108.43 183.53 35.63 28,746.90 5,914.50 486.35 29.90 317.48 71.23 111.80 202.21 22.01 67.75 3,976.96 348.57 210.62 173.16 |
| Total of 22 Di   | sbursements  | <b>:</b>  |  | 66,295.11  |
| REPORT TOTA  | LS:          |   |  |  |
| Total of 77 Cl<br>Less 0 Void Cl   |              |   |  | 586,439.24<br>0.00   |
| Total of 77 D  | isbursements | :   |  | (Agrees with<br>Trovosce Resister<br>BK  |