

Village of Spring Lake

Council Work Session

November 11, 2019

7:00 p.m.

102 West Savidge Street (Upstairs Conference Room)
Spring Lake, MI 49456

www.springlakevillage.org

1	<p>7:00 p.m. – Solar Proposal (Bill Cousins)</p> <p>At the August 12, 2019 work session, Bill Cousins was given direction to seek additional proposals for solar installation at Village Hall and the DPW.</p>
2	<p>7:10 p.m. – Fire Suppression Ordinance (Wally Delamater)</p> <p>Without clear rules as to who pays for what, the Village was saddled with an expensive repair to a fire suppression water line leading to private property last year. In order to prevent this from occurring in the future, staff would like to propose language to be contemplated by Council in the form of ordinance language (<i>attached</i>).</p>
3	<p>7:15 p.m. – Pedestrian Crossing Sign Installation</p> <p>Due to a car/pedestrian accident on May 9, 2019 at E. Savidge & Prospect, Council directed staff to work with MDOT on options to increase safety for pedestrians attempting to cross Savidge on their way to school. Those options are attached for Council consideration.</p>
4	<p>7:25 p.m. – Tree Trimming & Removal Bids (Wally Delamater)</p> <p>RFPs were solicited for tree trimming and removal throughout the Village. A total of 5 bids were received (<i>bid tab attached</i>) ranging from \$21,550 to \$53,264. DPW Director Wally Delamater met with consultant Lee Mueller to review the specifications in greater detail and will provide a recommendation at the work session.</p>
5	<p>7:30 p.m. – Ordinance Amendment (Stonegate Condominiums)</p> <p>Due to ground water contamination dating back 30 years, Wood Environment & Infrastructure is asking the Village to amend its ordinance to include properties affected by a fuel discharge at 728 E. Savidge (Shell Gas Station). All costs associated with the ordinance amendment will be</p>

	covered by Schmuckal Oil. Attorney Bob Sullivan is drafting the ordinance, which will be on the December agenda.																																					
6	<p>7:35 p.m. – Plan Review Fees</p> <p>The Village currently pays Bob Modreske \$50 per hour to review building plans that are submitted. Bob has indicated that his hourly rate is to increase to \$75/hour.</p>																																					
7	<p>7:40 p.m. – Discussion ~ Redevelopment of Tanglefoot Park</p> <p>With the decision made to repurpose Tanglefoot Park, it is necessary to discuss what the next steps are to move forward with the project. Progressive AE has submitted cost estimates (<i>attached</i>) for the redevelopment.</p>																																					
8	<p>8:00 p.m. – Art in the Park Sculpture Update</p> <p>A “Call to Artists” was released this past summer, with submissions due on October 27th. A total of 13 submissions were received for a sculpture in honor of Gary & Vicki Verplank. Staff met with the Art in the Park Committee and are scheduled to meet with Tony and Kyle Veplank on 11/11/19 to select an artist. Their selection will be shared with the DDA on November 12, 2019 and the Parks & Recreation Board on December 2, 2019.</p>																																					
9	<p>8:05 p.m. – Board & Committee Appointments</p> <p>As the time the agenda was distributed, staff was still waiting on a few applications from incumbents.</p> <table border="1" data-bbox="289 1409 1287 1770"> <thead> <tr> <th>Board</th> <th>Openings</th> <th>Name</th> <th>Term</th> <th>Incumbent</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Parks & Recreation</td> <td rowspan="2">3</td> <td>Lee Schuitema</td> <td>11/2022</td> <td>X</td> </tr> <tr> <td>Darcy Dye</td> <td>11/2022</td> <td>X</td> </tr> <tr> <td rowspan="3">Historic Conservation</td> <td rowspan="3">4</td> <td>Mark Miller</td> <td>11/2022</td> <td>X</td> </tr> <tr> <td>Danny Grable</td> <td>11/2022</td> <td></td> </tr> <tr> <td>William Young</td> <td>11/2022</td> <td></td> </tr> <tr> <td>Planning Commission</td> <td>1</td> <td>Tom Drooger</td> <td>11/2022</td> <td></td> </tr> <tr> <td rowspan="2">ZBA</td> <td rowspan="2">2</td> <td>Jim MacLachlan</td> <td>11/2022</td> <td>X (alt)</td> </tr> <tr> <td>Bill Meyers</td> <td></td> <td>X</td> </tr> </tbody> </table>	Board	Openings	Name	Term	Incumbent	Parks & Recreation	3	Lee Schuitema	11/2022	X	Darcy Dye	11/2022	X	Historic Conservation	4	Mark Miller	11/2022	X	Danny Grable	11/2022		William Young	11/2022		Planning Commission	1	Tom Drooger	11/2022		ZBA	2	Jim MacLachlan	11/2022	X (alt)	Bill Meyers		X
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10	<p>8:10 p.m. – Central Park Reservation ~ Rotary Snow Jam</p> <p>Spring Lake Rotary would like to utilize Central Park on February 7 & 8, 2020 for their annual Snow Jam event. Staff has held their preliminary meeting with the applicant. Application attached.</p>
11	<p>8:12 p.m. – Mill Point Park Reservation ~ Historic Conservation Committee</p> <p>The Historic Conservation Committee has requested the use of Mill Point Park for their annual Wooden Boat Show on May 30, 2020.</p>
12	<p>8:14 p.m. – Mass Gathering Ordinance Update</p>
13	<p>8:15 p.m. – You Make the Difference Award (Dave Kauchek)</p> <p>Dave Kauchek has served on the Planning Commission since November 23, 2010. He has served as the Chairperson of the PC since December 15, 2015. Dave has recently announced his retirement and is not seeking reappointment. It would be appropriate to acknowledge his service, although he will not be in attendance at the Council Meeting as he and his wife have relocated to Arizona for the winter.</p>
14	<p>8:16 p.m. – Planning Contract with Grand Haven City</p> <p>The Village and the City of Grand Haven have a contractual arrangement for Planning services that expires at the end of 2019. It warrants discussion on how to move forward in 2020.</p>
15	<p>8:18 p.m. – Communications</p> <ul style="list-style-type: none"> • Calendar – GHACVB (November) • Calendar – SLDL (November) • Complaint (Barnes) • Complaint (Duer) • Complaint (Long) • Complaint (Newman) • Complaint (O’Brien) • Complaint (Wolters) • Dredging Opposition (GVSU) • Eagle Scout Project • NOCH Newsletter (November)
16	<p>8:20 p.m. – Spring Lake District Library Board Update</p>

	<p>Mark Powers and Chris Burns serve as the appointees to the SLDL Board. They will provide an update on the happenings at the library since their appointments in January.</p>
17	<p>8:40 p.m. – Infiltration Issues (Wally Delamater)</p> <p>Residents who are struggling with high water tables at their homes are currently pumping storm water into Village Streets or the sanitary sewer. With the onset of winter, alternate arrangements need to be contemplated.</p>
18	<p>8:56 p.m. - Minutes</p> <p>Minutes of the October 14, 2019 Work Session and October 21, 2019 regular meeting are attached for review. Should you wish to make edits, please share that information with Chris Burns or Maryann Fonkert prior to November 15, 2019.</p>
19	<p>8:57 p.m. - Public Comment</p> <p>Council Work Sessions are open to the public, and as such, the public is invited to speak at the end of each meeting. Each speaker should limit their comments to 3 minutes.</p>
20	<p>9:00 p.m. – Adjourn</p>



Non-Binding Letter of Intent

This Letter of Intent (“LOI”) sets forth the mutual understandings of Harvest Solar (“Harvest”) and _____ (“Client”) with respect to Solar Energy Projects (“Projects”) set out in the Proposal (“Proposal”) delivered on _____. The purpose of this LOI is to allow Harvest to undertake the work necessary to secure interconnection for the Project(s), during which time a Solar Power Purchase Agreement (“PPA”) can be negotiated as necessary.

1. **Harvest Tasks** – The work required to secure interconnection includes the following:
 - a. Preliminary electrical design
 - b. Preliminary structural design
 - c. Application to interconnect to electric utility
2. **Client Commitments** – Client agrees to assist Harvest responsively and exclusively as follows:
 - a. Client will provide the following to Harvest:
 - i. Copies of all information necessary for Harvest to complete its duties, such as electrical information, building plans, and utility account information
 - ii. Full access to all locations impacted by the project, such as electrical rooms, conduit pathways, and roof
 - b. Client will negotiate a PPA with Harvest in good faith according to the system specifications and cost in the Proposal
 - c. Client will not pursue an agreement for solar energy services with any other developer
3. **Termination** – Upon termination of this LOI, all agreements set forth in this document will cease except the non-disclosure provision in (5). Client may terminate this LOI at any time (including after Harvest secures interconnections) at which point it will pay Harvest a one-time termination fee of \$1,000. Harvest may also terminate this LOI at any time for no additional fees.
4. **Time Period** – This LOI commences on the date of signature below and continues until a Project Agreement is successfully executed or this LOI is terminated.
5. **Non-Disclosure** – Harvest and Client mutually agree that they will keep in strict confidence any confidential or proprietary matters (except publicly available or freely usable material as otherwise obtained from another source) respecting either party.

Harvest Solar

Client: _____.

Name Signature _____

Name Signature _____

Name Print _____

Name Print _____

Title _____

Title _____

Date _____

Date _____

SPRING LAKE VILLAGE, MICHIGAN

Memo

Date: October 28, 2019

To: Christine Burns, Village Manager

From: Bill Cousins

Re: Solar Project for Village Office & DPW Building

The Village Council, at their August Work session, asked staff to further review the solar project to learn what additional firms might be able to provide solar to the Village. The company being considered at the time was Energy Conservation Source (ECS) of Norton Shores.

I contacted four entities to attempt to receive information on their ability to provide the Village with the equipment to utilize power from solar panels on the roofs of the two village buildings. I learned the following:

1. Great Lakes Bay Renewable Energy (Bay City) – My calls and messages were not returned.
2. Solar Ypsi (Ypsilanti) – This is a well-educated volunteer that helps residents learn about and install solar on their homes. He directed me to contact Energy Conservation Source (the company we have been in touch with since April) for our solar needs. ECS has installed a system on the DPW and the staff was very happy with the installation and operation of the system.
3. The Green Panel (Brighton) – They sell and install solar panels. A rough guess was that our project would cost \$120,000 to \$160,000. I did not pursue this further as it is my understanding that Spring Lake Village is not interested the outright purchase of a solar system.
4. Harvest Solar (Jackson) – I spent some time talking (and meeting) with Ken Zebarah of Harvest Solar. They operate in a similar manner to ECS with a few major exceptions: 1) They install the solar system, but do not own or operate it – they sell the system to an “investor” who owns the system and ‘leases’ space on our roofs. 2) They do not get specific on costs and savings until doing an in-depth study of our needs. However, they will only take on the engineering study (and system design) after the Village signs a letter of intent authorizing Harvest to perform the necessary engineering for the project. The

letter of intent requires that Spring Lake not pursue any other solar company and that, if the Village terminated the agreement or did move forward after the study is completed, it would pay Harvest \$1,000 (copy of the letter of intent attached). And, 3) The presumed savings provided by Mr. Zebarah would result in a savings that is double of the Energy Conservation proposal; but, none of it is in stone until the engineering is complete. It could be more or less than the estimate provided. Harvest has installed systems in Michigan and provided me with names of some of the systems. I contacted a couple of them and found very good reports regarding the work with Harvest. The systems installed were purchased rather than leased systems which eliminated the "investor" from the mix.

I also contacted ECS to get clarification on questions asked by the Village Council. ECS will reduce the roof repair time to 30 days from 60. The company will provide all maintenance for the 25 years of the lease (5 was a mis-print). Solar systems are currently designed and built to last 40 years. ECS has been in business since June of 2016 (The owner worked for another solar company prior to 2016). ECS has also done work around the state. As I noted, the Ypsilanti DPW was happy with the installation and energy savings from the ECS system.

So, where do we go from here? While it appears the Village may find a higher level of savings from Harvest, being married to an unknown investor is not an ideal situation. I recommend that the Village continue to pursue a lease agreement with Energy Conservation Source as with our neighbors (Ferrysburg and Spring Lake Township) already utilizing the company (and happy with the results), and that with Harvest, we will not be able to vet the quality of the investor until far down the road.

**VILLAGE OF SPRING LAKE
OTTAWA COUNTY, MICHIGAN**

Council Member _____, supported by Council Member _____, moved the adoption of the following ordinance:

ORDINANCE NO. _____

AN ORDINANCE TO AMEND THE CODE OF ORDINANCES OF THE VILLAGE OF SPRING LAKE BY INSERTING A NEW SECTION WHICH SHALL BE DESIGNATED AS SECTION 373-8; THE EXISTING SECTION 373-8 AND ALL SUBSEQUENT SECTIONS SHALL BE RENUMBERED 373-9 THROUGH 373-35 OF PART II, CHAPTER 373 OF SAID CODE

THE VILLAGE OF SPRING LAKE ORDAINS:

Section 1. Insertion of Section 373-8 to Part II, Chapter 373. Section 373-8, "Unmetered Use of Water for Fire Protection," is added to Part II, Chapter 373, "Water," of the Code of Ordinances of the Village of Spring Lake to read as follows:

§ 373-8. Unmetered Use of Water for Fire Protection.

- (a) Water may be supplied to a property without being metered for the purpose of providing a fire protection system to the property. Unmetered services shall be assessed a fee for the connection to the Village water system based on the size of the water connection from the main. Fees shall be determined by the Village Council and reviewed and revised from time to time by the Council; the fee schedule will be kept on file for public inspection in the Office of the Village Clerk.
- (b) Prior to connection of any fire protection system to a water service line, a permit shall be obtained from the Utilities Department. The fee for such permit shall be paid in full in at the time of issuance.
- (c) Connections of fire service lines to the main shall be made by a licensed plumbing contractor hired by the property owner. All work shall be approved and inspected by the Village prior to start of the project and prior to any work being covered underground.
- (d) All dedicated fire protection systems shall be chlorinated, and coliform tested prior to being activated.
- (e) Unlike other water service lines, the property owner is responsible for the maintenance of the fire service line from the main to the building.

Section 2. Renumbering of Sections 373-8 through 373-34. Section 373-8 to Part II of Chapter 373. Section 373-8, "Service Line Maintenance," through Section 373-34, "Administrative Liability", shall be renumbered as Sections 373-9 through 373-35.

Section 3. Effective Date. This ordinance shall be effective upon its publication.

Section 4. Publication. After its adoption, this ordinance or a summary thereof, as permitted by law, shall be published by the Village Clerk in *The Grand Haven Tribune*, a newspaper of general circulation in the Village.

ORDINANCE DECLARED ADOPTED.

Dated: _____, 2019

Mark Powers, President

Marvin Hinga, Village Clerk

CERTIFICATION

I, the undersigned duly appointed Village Clerk of the Village of Spring Lake, Ottawa County, Michigan, do hereby certify that the above ordinance, or a summary thereof, was published in *The Grand Haven Tribune*, a newspaper of general circulation in the Village on _____, 2019, and that such ordinance was entered with the Ordinance Book of the Village on _____, 2019.

Dated: _____, 2019

Marvin Hinga, Village Clerk

Christine Burns

From: Fredrickson, Marc (MDOT) <FredricksonM@michigan.gov>
Sent: Monday, September 16, 2019 1:25 PM
To: Christine Burns
Cc: Weerstra, Vicki (MDOT); Brege, Michael (MDOT)
Subject: M-104 Pedestrian Crossings
Attachments: Pedestrian Gateway Treatment - 3 Lane.pdf; RRFB - Holland Example.jpg

Chris,

This email is to follow up on your request, regarding M-104 pedestrian crossings and asking to work with MDOT for guidance on potential changes to the pedestrian crossings along M-104 through the Village of Spring Lake.

As discussed at our meeting on Thursday, the Village has concerns and would like to enhance the pedestrian crossings on M-104. Based on these conversations, MDOT recommends several options for Village consideration. After the Village has reviewed the options, then the Village and MDOT would need to meet and discuss the next steps, with the end result being approved by MDOT and a resolution of approval by the Village to enter into an agreement with MDOT. All costs would be borne by the Village, although if coordinated with our upcoming 2020 resurfacing project, MDOT would participate in pavement marking costs.

1. Reduce the number of crossings by combining the Prospect St and Maple Terrace Ave crossings into a single new crossing at Alden St
 - Requires that the school crossing signing and pavement markings be moved to the new location (approx. \$5,000)
 - Requires sidewalk and curb work to remove existing crossings and construct new crossing (approx. \$10,000)
 - If this work were done at the same time as MDOT's upcoming resurfacing project in 2020 no pavement marking work would be required by the Village
2. Enhance the pedestrian signing at unsignalized crossings throughout the 3-lane corridor using the attached "Pedestrian Gateway Treatment – 3 Lane" configuration
 - Could be applied at Buchanan St (east side), Church St and Alden St (approx. \$3,600)
 - This requires the Village to adopt the "Yield to Pedestrians" Ordinance per State Law for enforcement and application
 - This treatment would be removed in the Winter and all maintenance of the signs would be the Village's responsibility
3. Enhance the Alden St crossing by installing a Rectangular Rapid Flashing Beacon (RRFB) device in lieu of the School Crossing beacon (see attached example) (approx. \$20,000 - \$25,000)
 - This device would be allowed on a 2 year trial basis where MDOT and the Village would monitor the effectiveness of the device, if adverse impacts were identified MDOT would require that the device be removed at the Village's expense
 - Options 1 and/or 2 could be done first and effectiveness monitored, then this alternative could be looked at as a follow-up project in future years if warranted

Please let us know if we can provide any further details or clarification on these alternatives.

Thanks,

Marc

Marc Fredrickson, P.E.

Operations Engineer

MDOT - Muskegon TSC

Direct Line: 231-777-7284

Muskegon TSC: 231-777-3451

Mobile: 231-766-1746

fredricksonm@michigan.gov



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100 North Third Street, P.O. Box 454, Grand Haven, MI 49417
www.scholtenfant.com

October 2, 2019

Via Email

Ms. Christine Burns
Village Manager
Village of Spring Lake
102 W. Savidge Street
Spring Lake, Michigan 49456

Re: Pedestrian Ordinance

Dear Ms. Burns:

Enclosed you will find a proposed Ordinance concerning pedestrian regulations. This Ordinance includes specific regulations with respect to crosswalks. In reviewing the language from other jurisdictions, we found that they presented a more comprehensive approach than just dealing with crosswalks. Accordingly, we have included them. If you believe those other provisions are unnecessary, they may be easily deleted.

You will note that there is not a penalty provision with respect to the violations of the pedestrian regulations being adopted by the enclosed Ordinance. As set forth in the Code, unless another designation is specified, a violation would be a misdemeanor. If you believe that a violation of the provisions of this Ordinance should be a municipal civil infraction, again the language can be amended.

Please review the document and advise as to any questions or comments you may have.

As always, your anticipated attention is appreciated.

Very truly yours,

SCHOLTEN FANT



Robert E. Sullivan

RES/kat
Enclosure

ORDINANCE NO. _____

VILLAGE OF SPRING LAKE PEDESTRIAN ORDINANCE

AN ORDINANCE TO AMEND THE CODE OF ORDINANCES ADOPTED BY THE VILLAGE OF SPRING LAKE, COUNTY OF OTTAWA, STATE OF MICHIGAN, BY ADOPTING CHAPTER 373, ARTICLE V, CONCERNING PEDESTRIAN REGULATIONS AND TO PROVIDE FOR THE EFFECTIVE DATE OF THIS ORDINANCE.

THE VILLAGE OF SPRING LAKE, COUNTY OF OTTAWA AND STATE OF MICHIGAN ORDAINS:

Section 1. Chapter 365, Article V. The Code of Ordinances adopted by the Village of Spring Lake, Ottawa County, State of Michigan, is hereby amended by the adoption of Chapter 365, Article V, which shall state in its entirety as follows:

**ARTICLE V
PEDESTRIAN**

§ 365-23. Pedestrians Regulated.

Pedestrians shall be subject to traffic control signals as heretofore declared in this Chapter, traffic control devices and the order or direction of any police officer, notwithstanding the provisions of the existing traffic laws, when such officer is directing or regulating traffic in the interest of public safety, but all other places pedestrians shall be granted those rights and be subject to the restrictions stated in this Article.

§ 365-24. Crosswalks.

The operator of a vehicle shall stop for a pedestrian crossing the roadway within any marked crosswalk, or within any unmarked crosswalk at an intersection, except at intersections where the movement of traffic is being regulated by a police officer or a traffic control signal; and at such regulated intersections operators of vehicles shall stop for all pedestrians crossing or who have started to cross the roadway on the "go" or "walk" signal.

§ 365-25. Crossing Other Than at Crosswalk.

Every pedestrian crossing a roadway at any point other than a crosswalk shall yield the right-of-way to all oncoming vehicles.

§ 365-26. Prohibited Crossings.

Between adjacent intersections at which traffic control signs are in operation, pedestrians shall not cross at any place except in a crosswalk.

§ 365-27. Vehicle Stopped for Pedestrian.

When a vehicle has stopped to permit a pedestrian who is properly crossing the roadway to proceed, it shall be unlawful for the operator of another vehicle approaching from the rear to pass such stopped vehicle.

§ 365.28. Hitchhiking.

No person shall stand on or near the roadway and solicit a ride from the operator of any vehicle other than public carriers.

§ 365-29. Standing in Roadway.

No pedestrian shall leave the curb and stand in any portion of the roadway while waiting for the "go" or "walk" signal.

§ 365.30. Blind Persons.

Any driver of a vehicle who approaches within ten (10) feet of a person wholly or partially blind, carrying a cane or walking stick white in color, or white tipped with red, shall immediately come to a full stop and take such precautions before proceeding as may be necessary to avoid accident or injury to such person.

§ 365.31. Walking on Roadway.

Where sidewalks are provided, it shall be unlawful for pedestrians to walk upon the main traveled portion of the roadway. Where sidewalks are not provided, pedestrians shall, when practicable, walk on the left berm or shoulder of the roadway facing traffic which passes nearest unless otherwise directed by the proper signs or markings.

Section 2. Administrative Liability. No officer, agent, or employee of the Village shall be personally liable for any damages the Village may accrue to any person as a result of any act required or permitted in the discharge of duties under and in the enforcement of this Ordinance.

Section 3. Severability and Captions. This Ordinance and its various sections, subsections, sentences, phrases, and clauses are declared to be severable. If any section, subsection, sentence, phrase, or clause is adjudged unconstitutional or invalid, the remainder of this Ordinance shall not be affected. Pronouns shall be read as masculine, feminine, or neuter as may be appropriate. Captions appearing at the

beginning of any section shall not be deemed as part of this Ordinance and shall have no independent significance.

Section 4. Repeal of Conflicting Ordinances. All ordinances or parts of ordinances which are in conflict in whole or in part with any of the provisions of this Ordinance as of its effective date are repealed to the extent of such conflict.

Section 5. Effective Date. This Ordinance shall take effect upon publication.

VILLAGE OF SPRING LAKE

Dated: _____, 2019

By: _____
Mark Powers
Its: President

By: _____
Marvin Hinga
Its: Clerk

CERTIFICATE

I, Marvin Hinga, the Clerk/Treasurer for the Village of Spring Lake, Ottawa County, Michigan, certify that the foregoing Spring Lake Village Pedestrian Ordinance was adopted at a regular meeting of the Village Council held on _____, 2019. The following members of the Village Council were present at that meeting:

The following members of the Village Council were absent: _____.
The Ordinance was adopted by the Village Council with members of the Council _____ voting in favor, and members of the Council _____ voting in opposition. Notice of Adoption of the Ordinance was published in *The Grand Haven Tribune* on _____, 2019.

Marvin Hinga, Clerk/Treasurer
Village of Spring Lake

Gateway Treatment, Three-Lane Configuration Without Refuge Island	
Travel Lanes	2
Passing/Turn Lanes	1
R1-6 Signs	4
Flexible Delineators	0
Yielding Compliance	Between 60% and 90% compliance rate if speed limit is 30mph or less for ADT up to 25,000. If the speed limit is 35 mph expect similar results if ADT is 12,000 or less. UNKNOWN above 12,000 ADT.
Approximate Cost	\$1,200 for materials 20-minute installation 8 minutes to remove for winter 8 minutes to reinstall in spring
General Description: Note: By installing the gateway on the near side of the intersection, both crosswalks are covered with only four signs. Data show that a gateway at the near side crosswalk continues to be effective for the far side of the intersection, as the motorist on the far side has already passed through a gateway on the near side. The signs on the curb side in the gutter pan would have a better chance of survival if they are moved placed between 3 and 50 feet in Advance of the crosswalk markings. This would reduce the chance of the sign being struck by a turning vehicle. Figure 6b shows a typical installation ¹⁰ .	



Figure 6a

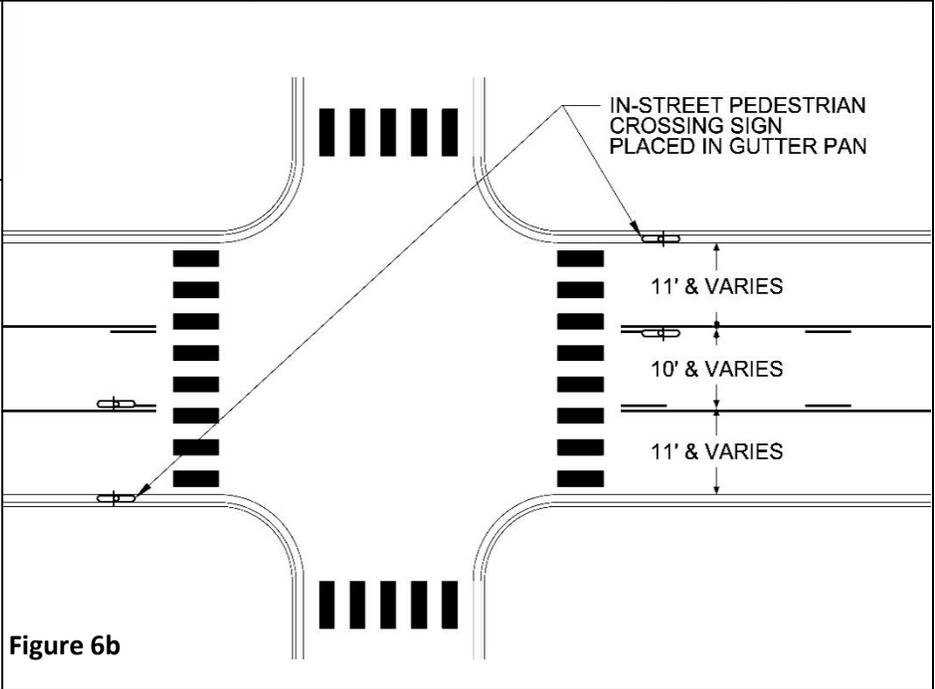


Figure 6b

¹⁰ Edge line sign placement requires permission to experiment from the FHWA before use.



E 7th St

Authority: 1949 PA 300, Sec.257.622
Compliance: Required MSP UD-10E
Penalty: \$100 and/or 90 days (Rev 01/2016)

External # 325000
Crash ID

Page 1
File Class : 93001

STATE OF MICHIGAN TRAFFIC CRASH REPORT

Incident #
1905090027

ORI: MI7017000
Department Name: Ottawa County Sheriff's Office

Reviewer
Sgt. Michael Vandenbosch (681)

Crash Date 05/09/2019	Crash Time 07:20	No. of Units 02	Crash Type Other	Special Circumstances <input checked="" type="checkbox"/> None <input type="checkbox"/> Fleeing Police <input type="checkbox"/> Hit and Run <input type="checkbox"/> Unknown <input type="checkbox"/> School Bus <input type="checkbox"/> Animal	Special Checks <input type="checkbox"/> Fatal <input type="checkbox"/> Non-Traffic Area <input type="checkbox"/> ORV/Snowmobile
County 70 - OTTAWA	Traffic Control None	Relation to Roadway On the Road	Weather Rain	Area Straight Roadway Not Related to Other Selections	
City/Twp 47 - SPRING LAKE	Contributing Circumstances 1st None	2nd	Light Dawn	Road Surface Condition Wet	Total Lanes 03
Work Zone (if applicable) Type	Workers Present No	Activity	Location		

LOCATION	Prefix SAVIDGE	Primary Road Name	Road Type ST	Suffix	Divided Roadway
	Distance/Direction 15.0 Feet E	Trafficway Divided Hwy wo/Barrier			
	Prefix PROSPECT	Intersecting Road Name	Road Type ST	Suffix	Divided Roadway

Unit Number 01	Unit Known Yes	State MI	Driver License Number C640465261065	Date of Birth (Age) 01/24/1978 (41)	License Type <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Chauffeur <input type="checkbox"/> Moped	Endorsements <input type="checkbox"/> Cycle <input type="checkbox"/> Farm <input type="checkbox"/> Recreation	Sex M	Total Occupants 03	Hazardous Action None
Unit Type MV	Driver Information KEVIN FRANCIS CURLEY 16698 NORTHWOOD TRL SPRING LAKE MI 49456 (269)370-6414			Driver is Owner No	Injury O	Position Front - Left	Restraint Shoulder & Lap Belt		
Driver Condition at Time of Crash 1st Appeared Normal				2nd		Driver Distracted By Not Distracted	Ejected No	Trapped No	Airbag Deployed Not Deployed
Hospital None					Ambulance None				
Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="checkbox"/> Breath <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field <input type="checkbox"/> OPBT <input type="checkbox"/> Refused <input checked="" type="checkbox"/> Not Offered			Alcohol Test Results <input type="checkbox"/> Pending Test Results:		Interlock Device No		
Drug Suspected No	Contributing Factor No	Drug Test Type <input type="checkbox"/> Blood <input type="checkbox"/> Urine <input type="checkbox"/> Field <input type="checkbox"/> Refused <input type="checkbox"/> Not Offered			Drug Test Results <input type="checkbox"/> Pending Test Results:		Citation Issued <input type="checkbox"/> Hazardous <input type="checkbox"/> Other		
Vehicle Registration 9LER0	State MI	Vehicle Description 2011	Year 2011	Make SUBARU	Model IMPREZA	Color SIL			
VIN JF1GH6B65BG818433	Vehicle Type Passenger Car, SUV, Van		Special Vehicles None		Private Trailer Type	Vehicle Defect			
Automation Systems(s) in Vehicle No	Automation System Level in Vehicle No Automation				Automation System Level Engaged at Time of Crash No Automation				
Insurance Company PROGRESSIVE	Insurance Policy # 31616926			Towed By		Towed To			
Location of Greatest Damage 02	First Impact	Extent of Damage (Power Unit and/or Trailers) Minor Damage		Vehicle Direction W	Vehicle Use Private	Action Prior Going Straight Ahead			
Sequence of Events First 15 - Pedestrian (• indicates MOST harmful event)									

PASSENGERS	Passenger Information				Date of Birth (Age)	Sex	Position	Restraint	
	Hospital				Ambulance				
	Injury				Ejected	Trapped	Airbag Deployed		
PASSENGERS	Passenger Information				Date of Birth (Age)	Sex	Position	Restraint	
	Hospital				Ambulance				
	Injury				Ejected	Trapped	Airbag Deployed		
PASSENGERS	Passenger Information				Date of Birth (Age)	Sex	Position	Restraint	
	Hospital				Ambulance				
	Injury				Ejected	Trapped	Airbag Deployed		

Carrier Information	USDOT	MC	MPSC
GVWR/GCWR <input type="checkbox"/> 10,000 lbs. or Less <input type="checkbox"/> 10,001 - 26,000 lbs. <input type="checkbox"/> Greater than 26,000 lbs.		Vehicle Configuration	Cargo Body Type
Driver's CDL Type		Endorsements <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> T <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> X	CDL Exempt <input type="checkbox"/> Farm <input type="checkbox"/> Other
Medical Card		Hazardous Material <input type="checkbox"/> Placard <input type="checkbox"/> Cargo Spill	ID # Class #

Owner Information	Owner Information
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Damaged Property	Public	Owner & Phone
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Unit Number 02	Unit Known Yes	State	Driver License Number	Date of Birth(Age) 07/08/2005 (13)	License Type <input type="radio"/> Operator <input type="radio"/> Chauffeur <input type="radio"/> Moped	Endorsements <input type="radio"/> Cycle <input type="radio"/> Farm <input type="radio"/> Recreation	Sex M	Total Occupants 00	Hazardous Action None
Unit Type P	Driver Information DEVYN BAKARI BAUMGARTNER 331 LILYBELLS LN SPRING LAKE MI 49456 (269)370-6414			Driver is Owner No	Injury A	Position Pedestrian	Restraint No Belts Available		
Driver Condition at Time of Crash 1st 2nd				Driver Distracted By Unknown		Ejected No	Trapped No	Airbag Deployed Not Equipped	
Hospital None				Ambulance None					
Alcohol Suspected No	Contributing Factor No	Alcohol Test Type <input type="radio"/> Breath <input type="radio"/> Blood <input type="radio"/> Urine <input type="radio"/> Field <input type="radio"/> PBT <input type="radio"/> Refused <input type="radio"/> Not Offered			Alcohol Test Results <input type="radio"/> Pending Test Results:		Interlock Device No		
Drug Suspected No	Contributing Factor No	Drug Test Type <input type="radio"/> Blood <input type="radio"/> Urine <input type="radio"/> Field <input type="radio"/> Refused <input type="radio"/> Not Offered			Drug Test Results <input type="radio"/> Pending Test Results:		Citation Issued <input type="radio"/> Hazardous <input type="radio"/> Other		
Vehicle Registration	State	Vehicle Description	Year	Make	Model	Color			
VIN	Vehicle Type			Special Vehicles None	Private Trailer Type	Vehicle Defect			
Automation Systems(s) in Vehicle		Automation System Level in Vehicle			Automation System Level Engaged at Time of Crash				
Insurance Company			Insurance Policy #		Towed By		Towed To		
Location of Greatest Damage 11	First Impact 11	Extent of Damage (Power Unit and/or Trailers) No Damage			Vehicle Direction	Vehicle Use	Action Prior Crossing at Intersection		
Sequence of Events First 17 - Motor Vehicle In Transport Second Third Fourth (● indicates MOST harmful event)									

PASSENGERS	Passenger Information			Date of Birth (Age)	Sex	Position	Restraint
				Injury	Ejected	Trapped	Airbag Deployed
	Hospital			Ambulance			
	Passenger Information			Date of Birth (Age)	Sex	Position	Restraint
				Injury	Ejected	Trapped	Airbag Deployed
Hospital			Ambulance				
Passenger Information			Date of Birth (Age)	Sex	Position	Restraint	
			Injury	Ejected	Trapped	Airbag Deployed	
Hospital			Ambulance				

Carrier Information			USDOT	MC	MPSC
			Driver's CDL Type	Endorsements <input type="radio"/> H <input type="radio"/> P <input type="radio"/> T <input type="radio"/> N <input type="radio"/> S <input type="radio"/> X	CDL Exempt <input type="radio"/> Farm <input type="radio"/> Other
GVWR/GCWR <input type="radio"/> 10,000 lbs. or Less <input type="radio"/> 10,001 - 26,000 lbs. <input type="radio"/> Greater than 26,000 lbs.	Vehicle Configuration	Cargo Body Type	Medical Card	Hazardous Material <input type="radio"/> Placard <input type="radio"/> Cargo Spill	ID # Class #

OWNERS	Owner Information			Owner Information		

Witness Information DARICK JOHN STINGLE 2407 MACARTHUR RD MUSKEGON MI 49442 (231)578-7979			Witness Information 19		
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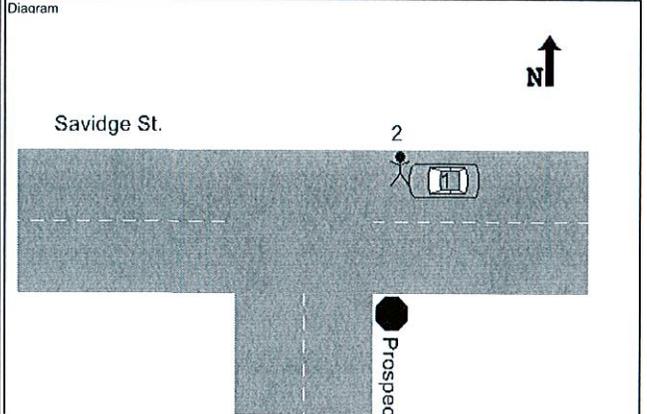
Investigated at Scene Yes	Reported Date (Time) 05/09/2019 (07:23)	1st Investigator Name (Badge) Dep. Joseph Steinhauer-DISABLED (1146)	2nd Investigator Name (Badge)	Photos No
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Narrative

Vehicle #1 stated that he was WB on Savidge / Prospect when all of a sudden he hit a young man with his vehicle. He never saw him at the side of the roadway. He stated that he was only going 30 MPH and has his headlights activated due to the darkness and the rain.

Pedestrian Devyn Baumgartner: He stated that he was walking to school and had his earphones on listening to his music. He approached Savidge St at the crosswalk and looked but he did not see vehicle #1 coming down the roadway. He entered the roadway and was hit by vehicle #1. After he was hit he flew onto the hood and then onto the windshield of the vehicle. He then flew off the vehicle onto the roadway, directly in front of the vehicle. The vehicle stopped and the driver rendered aid. Devyn emphasized that he never saw vehicle #1 and just walked out in front of it.

Devyn was wearing light gray pants with a light blue jacket.



Continued Narrative

Witness Darick Stingle: He stated that he was EB on Savidge St. and saw someone laying in the roadway. He ran up to help and he asked the person on the ground what happened and he stated that he ran out in front of the car.

Tree Maintenance Proposals
Received by November 7, 2019

COMPANY	PRUNING	TREE REMOVAL W/STUMP
Summit Tree Service Inc.	\$13,313.84	\$13,313.84
TREWORKS	\$19,725.00	\$21,750.00
Get-R-Cut	\$7,375.00	\$13,125.00
Integrity Tree Service	\$13,275.00	\$18,585.00
Bartlett Tree Experts	\$24,024.00	\$25,240.00

STUMPS	TOTAL
\$1,380.12	\$28,007.80
\$2,500.00	\$43,975.00
\$1,050.00	\$21,550.00
\$8,388.00	\$40,248.00
\$4,000.00	\$53,264.00

Christine Burns

From: Lint, Robert J <robert.lint@woodplc.com>
Sent: Tuesday, October 22, 2019 8:57 AM
To: Christine Burns
Cc: Neithercut, Peter
Subject: Spring Lake Groundwater Use Ordinance
Attachments: Schmuckal Spring Lake Groundwater Delineation Report FAS.pdf; 1904 Stone Gate Condos Access Letter FAS.pdf; RestrictiveCovenantEQP3854_418278_7.pdf

Ms. Burns,

As you know, Wood is investigating a release of gasoline at the Spring Lake Shell Mini-Mart and has identified a plume of groundwater contamination migrating south from the property and beneath the neighboring Stonegate Condo Association Property. With your cooperation, earlier this year we were able to determine that contamination has not migrated past River Street as documented in the attached investigation report.

In order to continue response activities, we would need to:

- Secure individual property access agreements from owners of properties in the Stonegate Association and possibly along the northside of River Street, and
- Depending on the results of the investigation, which would involve drilling and installation of monitoring wells, we would then need to:
 - secure individual deed restriction on affected properties, preventing the installation of drinking water wells, or
 - install and operate groundwater cleanup infrastructure at one or more off-site properties.

Alternatively, the existing City ordinance prohibiting well installation could be extended to include properties that may be impacted by the contamination emanating from the Shell, eliminating the need for further obtrusive investigation and remediation, or individual property restrictions. We are recommending this approach to Schmuckal Oil and the City as being the mutual best interest of all involved.

We have previously attempted to secure property access from the Stonegate Association with no success. To date, we have not been able to open a line of communication. In support of your review of our request, Peter Neithercut asked that I forward to you, model access agreements and use restrictions that would be necessary for multiple properties to continue response activities, in the absence of a City ordinance extension.

Thanks again for your consideration of our request.

Robert Lint, CPG
Senior Scientist
Wood Environment & Infrastructure Solutions
41 Hughes Drive
Traverse City, Michigan 49696

T 231.922.9050
D 231.486.8004
F 231.922.9055
M 231.218.0552

Note: Amec Foster Wheeler E&I is now part of Wood
www.woodplc.com



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DECLARATION OF RESTRICTIVE COVENANT PART 213

This document provides instructions on the use of a Declaration of Restrictive Covenant to comply with Section 21310a(2) of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), MCL 324.21301 *et seq.*, when the corrective action at a site results in a final remedy that relies on an institutional control in the form of a Restrictive Covenant (RC). A RC is not required if the corrective action solely relies on an ordinance under Section 21310a(3) of the NREPA, or an alternate mechanism that is approved by the Michigan Department of Environmental Quality (MDEQ) pursuant to 21310a(4) of the NREPA. This document and attached model document are provided to the public as preliminary guidance as to the content, format, and terms of this RC and are not intended, nor can they be relied upon to create any substantive or procedural rights by any other party.

Approval and consent of the property owner(s), including any easement holders affected by the RC, must be obtained prior to recording with the Register of Deeds. A copy of the RC and proof of recording must be submitted with the Closure Report (EQP3843) to the appropriate MDEQ District Office at the address listed in form EQP4410. The recording requirements for instruments filed with Michigan County Register of Deeds offices are contained in Section 1 of the Recording Requirements Act, 1937 PA 103, as amended (Act 103), MCL 565.201. Act 103 is available at: <http://legislature.mi.gov/doc.aspx?mcl-act-103-of-1937>.

Please contact Mr. Kevin Schrems, Compliance and Enforcement Section, Remediation and Redevelopment Division (RRD), MDEQ, at schremsk@michigan.gov or 517-284-5149 for any questions relating to this document or the attached model document; or you may call the RRD main number at 517-284-5087 for assistance.

The lettered instructions below explain what information should be inserted into the corresponding blanks identified by letter in the Model Declaration of Restrictive Covenant. Drafting notes and insertion directions appear as ***bold italicized font***.

- A. *Insert as appropriate based on the land use proposed for the Restrictive Covenant and the cleanup criteria that have been satisfied for the corrective action:***
- Restricted Residential
 - Restricted Nonresidential
 - Restricted Site-Specific
- B. *MDEQ Reference No: RC-RRD-213-[year]-[number]. This Reference Number ensures the protectiveness, enforcement, and tracking of institutional controls. All institutional control Reference Numbers assigned shall be predominantly displayed on the first page. The MDEQ Reference Number can be obtained from Mr. Nick Ekel, RRD, MDEQ, at ekeln@michigan.gov or 517-284-5090; or you may call the RRD main number at 517-284-5087.***
- C. *Enter the name of the county where the Property is located.***
- D. *Enter the address location of the Property, including city or township and county.***

E. **Select the appropriate option based upon the proposed restricted area:**

OPTION 1: To be used if the entire Property is subject to all the land and/or resource use restrictions provided in this RC. Note: A mortgage survey of the Property may be used for this purpose if one is already available. Insert the following:

Exhibit 3 (Survey of Property) provides a survey of the Property that is subject to the land and/or resource use restrictions specified in this Restrictive Covenant.

OPTION 2: To be used if not all of the Property is subject to all the land and/or resource use restrictions provided in this RC. Note: In this case, a mortgage survey is not appropriate, and a survey and legal description for both the Property and the specific area(s) that will be subject to the restrictions is required. Insert the following:

Exhibit 3 (Survey of Property and Limits of Land or Resource Use Restrictions) provides a survey of the Property that depicts the area or areas subject to restriction and contains additional legal descriptions that distinguish those portions of the Property that are subject to the land and/or resource use restrictions specified in this Restrictive Covenant.

F. **Enter the Part 213 Site name and Facility ID number.**

G. **Insert as appropriate:**

- Final Assessment Report (FAR)
- Closure Report (CR)

H. **Enter the date of the Final Assessment Report (FAR) or the Closure Report (CR).**

I. **Add the following to the sentence if there is a long-term physical component of the corrective action (e.g., an asphalt cap, containment barrier, or monitoring wells):**

and 4) to prevent damage or disturbance of any element of the corrective action constructed on the Property.

If there is no long-term physical component of the correction action remove the semicolon and end the sentence.

J. **Enter the name of owner or operator, as defined by Section 21303 (a) or (b) of the NREPA, who is proposing the FAR or CR and the filing of this RC.**

K. **Insert a paragraph similar to the following example that briefly describes the nature and extent of the regulated substances released, the affected media and routes of potential exposure, any long-term components of the corrective action that are to remain in-place on the Property, and how the corrective action proposed including restricting land or resource uses will be effective to address unacceptable risks for all relevant exposure pathways that require restrictions:**

Example: Hazardous substances including benzene, toluene, ethyl benzene, xylenes,

naphthalene and trimethylbenzenes were released from an underground storage tank resulting in contamination of the Property. Soil and groundwater contamination remain present at levels that do not allow unrestricted use of the Property. Specifically, concentrations of regulated substances remain present in the groundwater in excess of the nonresidential drinking water cleanup criteria. This potential exposure risk has been addressed by preventing the use of the groundwater for ingestion. In addition, concentrations of regulated substances remain in the soils at certain locations on the Property that could pose an exposure risk from direct contact with the contaminated soils and from inhalation of the regulated substances in their vapor phase. An exposure barrier has been constructed (identified in Exhibit 3) to prevent direct contact with these contaminated soils. An engineered vapor barrier has been constructed under Building B (identified in Exhibit 3) to prevent migration of contaminants in the vapor phase into the building at levels that would result in unacceptable exposures through inhalation.

[Insert the following language if residual (or mobile) nonaqueous-phase liquid is being left in place at the Property]

Residual (or mobile) Light Nonaqueous-Phase Liquid (LNAPL), including ***[gasoline/diesel/fuel oil/waste oil]*** were properly characterized using a Conceptual Site Model in accordance with American Society for Testing and Materials (ASTM) designation E 2531-06 E1, and will remain in place. The LNAPL exists below the ground surface at a depth of ***[insert approximate depth]***. The location of the LNAPL in the attached Exhibit 3 (Survey of the Property and Limits of Land or Resource Use Restrictions) describes and provides the location of the institutional control and the horizontal and vertical extent of the LNAPL is described in Exhibit ***[insert Exhibit number and include an exhibit to the Restrictive Covenant that depicts the horizontal and vertical extent of the LNAPL in relation to the Property boundaries]***. The restrictions provided for in this Restrictive Covenant serve to prevent unacceptable exposure to hazardous substances as a result of the conditions created by the presence of the LNAPL soil and/or groundwater contaminant concentrations that exceed the unrestricted residential criteria under Section 21304a(2) of the NREPA.

L. Enter as appropriate:

- as Owner of the Property
- with the express written permission of the Owner of the Property

M. Select one of the following options as appropriate to describe the restrictions on land use necessary to comply with the appropriate cleanup criteria that are consistent with the zoning of the Property. The person preparing the Restrictive Covenant must examine the zoning code or ordinance that applies to the Property to determine what land uses are allowed under the zoning category:

OPTION 1: If the Property is subject to land use restrictions required to satisfy the nonresidential cleanup criteria, insert the following paragraph below:

a. **Prohibited Land Uses:** The Owner shall prohibit all uses of ***[insert as appropriate: the Property or portions of the Property as described in Exhibit 3 (Survey of Property or Survey of Property and Limits of Land or Resource Use Restrictions)]*** that are not compatible with or are inconsistent with the assumptions and basis for the nonresidential cleanup criteria established pursuant to Section 21304a(2) of the NREPA. Uses that are compatible with nonresidential cleanup criteria are generally described in

Exhibit 4 (Description of Allowable Uses). ***[If the local zoning ordinance allows for residential uses within the Property's current zoning, insert the following:*** At the time of recording of this Restrictive Covenant, the ***[insert name of local zoning authority and zoning code designation]*** zoning code designation allowed for the following residential uses that are not compatible with the nonresidential cleanup criteria and are therefore prohibited by this Restrictive Covenant: ***[list prohibited uses]***. Cleanup criteria for land-use based response activities are located in the Government Documents Section of the State of Michigan Library.

OPTION 2: If the Property is subject to land use restrictions required to satisfy site-specific cleanup criteria, insert the following paragraph below:

a. **Prohibited Land Uses:** The Owner shall prohibit all uses of ***[insert as appropriate: the Property or portions of the Property as described in Exhibit 3 (Survey of Property or Survey of Property and Limits of Land or Resource Use Restrictions)]*** that are not compatible with or are inconsistent with the assumptions and basis for the site-specific cleanup criteria developed for the Property. Uses that are compatible with the site-specific criteria developed for the Property are generally described in Exhibit 4 (Description of Allowable Uses). ***[If the local zoning ordinance allows for uses within the Property's current zoning that are not compatible with the site-specific criteria developed for the Property, insert the following:*** At the time of recording of this Restrictive Covenant, the ***[insert name of local zoning authority and zoning code designation]*** zoning code designation allowed for the following uses that are not compatible with the site-specific cleanup criteria developed for the Property and are therefore prohibited by this Restrictive Covenant ***[list prohibited uses]***

OPTION 3: If the Property does not require any restrictions on land use because hazardous substances left in place would allow for a limited or restricted residential cleanup with the appropriate resource use restrictions, there is no need to insert any restriction language under "Prohibited Land Uses." Therefore this paragraph should be excluded from the Restrictive Covenant and the remainder of the paragraphs should be renumbered accordingly.

N. ***Enter as appropriate:***

- on the Property
- within the portions of the Property designated in Exhibit 3 (Survey of Property and Limits of Land or Resource Use Restrictions) as ***[insert designation]***

O. ***Enter additional paragraphs, as appropriate, to describe the prohibited activities necessary to reliably restrict exposure to regulated substances located on the Property or within the portions of the Property designated in Exhibit 3 (Survey of Property or Survey of Property and Limits of Land or Resource Use Restrictions). The following are examples that may or may not be appropriate for use. Number each new restriction accordingly when entering the information into the Restrictive Covenant.***

Examples:

Exposure Restriction for Use of Groundwater:

- (i.) The construction and use of wells or other devices on the Property to extract groundwater for consumption, irrigation, or any other purpose, except as

provided below:

- (a) Wells and other devices constructed for the purpose of evaluating groundwater quality or to remediate subsurface contamination associated with a release of regulated substances into the environment are permitted provided the construction of the wells or devices complies with all applicable local, state, and federal laws and regulations and does not cause or result in a new release, exacerbation of existing contamination, or any other violation of local, state, or federal laws or regulations.
- (b) Short-term dewatering for construction purposes is permitted provided the dewatering, including management and disposal of the groundwater, is conducted in accordance with all applicable local, state, and federal laws and regulations and does not cause or result in a new release, exacerbation of existing contamination, or any other violation of local, state, and federal environmental laws and regulations.

Direct Contact Exposure Barrier Restriction:

- (ii.) Any excavation or other intrusive activity that could affect the integrity of the **[insert thickness and material of barrier]** that serves to prevent direct contact exposure to contaminated soils at the Property. The **[insert thickness and material of barrier]** barrier has a base elevation of **[insert reproducible benchmark]** and is located on the Property as shown on Exhibit 3 (Survey of Property and Limits of Land or Resource Use Restrictions) as **[insert designation]**. Disturbance of the barrier may be allowed during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the **[insert material of barrier]**, that could affect the integrity of the barrier, must be replaced with a cover that provides at least an equivalent degree of protection as the original barrier within 14 days of completion of the work. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted that demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 213.

Vapor Intrusion Exposure Restriction (no buildings):

- (iii.) The construction of new structures, unless such construction incorporates engineering controls designed to eliminate the potential for subsurface vapor phase hazardous substances to migrate into the new structure at concentrations greater than applicable criteria; or, unless prior to construction of any structure, an evaluation of the potential for any hazardous substances to volatilize into indoor air assures the protection of persons who may be present in the buildings and is in compliance with Section 21304c of the NREPA.

P. Enter additional paragraphs, as appropriate, to describe the prohibited activities necessary to maintain the effectiveness and integrity of the corrective action implemented at the Property. The following examples may or may not be appropriate for use. Number each new restriction accordingly when entering the information in to the Restrictive Covenant.

Examples

Infiltration Barrier Restriction:

- (i.) Any excavation or other intrusive activity that could affect the integrity of the **[insert thickness and material of barrier]** that serves to prevent infiltration of water through contaminated soils at the Property. The **[insert thickness and material of barrier]** barrier has a base elevation of **[insert reproducible benchmark]** and is located on the Property as shown on Exhibit 3 (Survey of Property and Limits of Land or Resource Use Restrictions) as **[insert designation]**. Any excavation or other intrusive activity that could affect the integrity of the **[insert material of barrier]** is prohibited, except during short-term construction or repair projects, or for purposes of further treating or remediating the subject contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the **[insert material of barrier]**, that could affect the integrity of the barrier, must include the use of engineering controls to prevent the infiltration of water into the contaminated soil underlying the barrier until the barrier is repaired or replaced. The barrier must be repaired or replaced with a cover that provides at least an equivalent degree of protection as the original barrier within 14 days of completion of the work. Repair and/or replacement of the barrier must be completed unless additional sampling is conducted which demonstrates that a barrier in the area is no longer necessary in accordance with the applicable provisions and requirements of Part 213.

Note: the following two examples may be appropriate when the Restrictive Covenant is filed pursuant to a FAR, however, they may no longer apply upon submittal of a CR.

Monitoring Well Disturbance Restriction:

- (ii.) Any activity that would interfere with the function of or obstruct access to any monitoring wells and devices located on the Property. This includes, but is not limited to, removing, destroying, or altering any well or device in any way that renders it inoperable or incapable of functioning as intended.

Treatment System Restriction:

- (iii.) Any activity that could affect the integrity, effectiveness, and operation of the groundwater interception trench and treatment system as described in the FAR and depicted in Exhibit 3 (Survey of Property and Limits of Land or Resource Use Restrictions) as **[insert designation]**.

Q. Insert if portions of the Property subject to land or resource use restrictions overlap and affect any easement holder's Property interests:

and all other holders of a legal interest whose interest is affected by this Restrictive Covenant as documented and attached as Exhibit **[insert number of the exhibit that contains the Consent of Easement Holder documentation]**.

R. Enter the current day of the month.

S. Enter the current month.

- T. **Enter the current year.**
- U. **Enter the state where the document is signed.**
- V. **Enter the county where the document is signed.**
- W. **Enter the appropriate form of acknowledgement from the following:**

OPTION 1: For an individual:

The foregoing instrument was acknowledged before me this **[date]** by **[name of individual]**.

OPTION 2: For a corporation:

The foregoing instrument was acknowledged before me this **[date]** by **[name of officer or agent, title of officer or agent]** of **[name of corporation]**, a **[state or place of incorporation]**, on behalf of the corporation.

OPTION 3: For a partnership:

The foregoing instrument was acknowledged before me this **[date]** by **[name of partnership or agent]**, partner **[or agent]** on behalf of **[name of partnership]**, a partnership.

OPTION 4: For an individual acting as principal by an attorney in fact (power of attorney):

The foregoing instrument was acknowledged before me this **[date]** by **[name of attorney in fact]** as attorney in fact on behalf of **[name of principal]**.

- X. **Stamp name of the Notary Public.**
- Y. **Enter the name of the person preparing the document**
- Z. **Enter the address to return the document to once recorded with the Register of Deeds.**

EXHIBIT 1: CONSENT OF OWNER ATTACHMENT:

This form is only necessary if the current Property owner and the person signing the Restrictive Covenant are not the same person. This document provides the express written permission of the current Property owner for recording. If the Consent of Owner attachment is not used, renumber the Exhibits accordingly and make the appropriate changes to the Exhibit references throughout the document.

- AA. **Enter the name of the current Property owner.**
- BB. **Enter the name of the person proposing to file the Restrictive Covenant.**

EXHIBIT 2: LEGAL DESCRIPTION OF PROPERTY:

This exhibit must provide the legal description of the Property, including parcel identification number(s) of the Property.

EXHIBIT 3: SURVEY OF PROPERTY OR SURVEY OF THE PROPERTY AND LIMITS OF LAND AND RESOURCE USE RESTRICTIONS.

This exhibit must be titled as appropriate for the restricted area.

The survey must identify, clearly delineate, and graphically depict the spatial extent of all restricted areas in relation to the Property boundaries and any key features of the corrective action. The survey must also provide separate legal descriptions for any distinct restricted areas of the Property if not, all areas of the Property are subject to the same restrictions.

To provide for a reliable and consistent standard of quality for surveys, all surveys shall be conducted by a licensed professional surveyor employed to provide land surveying services consistent with R339.17403 of Part 4, Standards of Practice and Professional Conduct, promulgated pursuant to Section 308 of the Occupational Code Act, 1980 PA 299, as amended, MCL 339.308.

At a minimum the survey shall include all the following as adopted from R339.17403:

- *A clear concise description of the Property surveyed by bearings and distances, commencing with some corner marked and established in the United States system of public land surveys, or reestablished in accordance with accepted methods.*
- *The graphical and numerical scale used.*
- *A north arrow.*
- *Identification of all government corners and related witnesses.*
- *A statement of the manner of bearing determination.*
- *The ratio of closure of latitudes and departures, which shall be within limits accepted by the profession of land surveying.*

EXHIBIT 4: DESCRIPTION OF ALLOWABLE USES

- CC. *This exhibit is only necessary when the Property is restricted to nonresidential or site-specific land uses. It must be consistent with the zoning of the Property (Do not include zoning code as part of this description) and with the generic exposure assumptions utilized in the FAR or CR under Section 21304a(2) of the NREPA, or the alternative exposure assumptions used to derive site-specific criteria if approved in the FAR or CR.*

OPTION 1: *Insert the following paragraph exactly as provided if the Property is restricted to the nonresidential land use category:*

Nonresidential Land Use: This land use is characterized by any use which is not residential in nature and is primarily characterized by industrial and commercial uses. Industrial uses typically involve manufacturing operations engaged in processing and manufacturing of materials or products. Other examples of industrial uses are utility companies, industrial research and development, and petroleum bulk storage. Commercial uses include any business or income-producing use such as commercial warehouses, lumber yards, retail gas stations, auto dealerships and service stations, as well as office buildings, banks, and medical/dental offices (not including hospitals). Commercial uses also include retail businesses whose principal activity is the sale of

food or merchandise within an enclosed building and personal service establishments which perform services indoors such as health clubs, barber/beauty salons, photographic studios, etc.

Any residential use is specifically prohibited from the nonresidential land use category. This would include the primary use of the Property for human habitation and includes structures such as single family dwellings, multiple family structures, mobile homes, condominiums, and apartment buildings. Residential use is also characterized by any use which is intended to house, educate, or provide care for children, the elderly, the infirm, or other sensitive populations, and therefore could include day care centers, educational facilities, hospitals, elder care facilities, and nursing homes. The use of any accessory building or portion of an existing building as a dwelling unit permitted for a proprietor or storekeeper and their families, located in the same building as their place of occupation, or for a watchman or caretaker is also prohibited. Any authority that allows for residential use of the Property as a legal non-conforming is also restricted per the prohibitions contained in this Restrictive Covenant.

OPTION 2: If the Property is restricted to the site-specific land use category, insert a paragraph that describes those uses that are consistent with assumptions used to develop site-specific criteria.

EXHIBIT 5: CONSENT OF EASEMENT HOLDERS

This Exhibit is only necessary if easement holders on the Property have their rights affected by the restrictions set forth in the Restrictive Covenant. This document provides the express written permission of the easement holder to record the Restrictive Covenant and have their Property rights subject to and subordinate to the terms of the Restrictive Covenant. Insert additional pages if multiple easement holders exist for the Property.

DD. Enter the name of the easement holder.

--END OF GUIDANCE AND INSTRUCTIONS--

DECLARATION OF RESTRICTIVE COVENANT MODEL

DECLARATION OF RESTRICTIVE COVENANT FOR A (A) CORRECTIVE ACTION

MDEQ Reference No: ___(B)___

This Declaration of Restrictive Covenant (Restrictive Covenant) has been recorded with the ___(C)___ County Register of Deeds to protect public health, safety, and welfare, and the environment by prohibiting or restricting activities that could result in unacceptable exposure to regulated substances present at the Property located at ___(D)___ and legally described in the attached Exhibit 2 (Legal Description of the Property). ___(E)___

The Property is associated with ___(F)___ for which a ___(G)___ was completed under Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), MCL 324.21301 *et seq.* Corrective actions that were implemented to address environmental contamination are fully described in the ___(G)___ dated ___(H)___ . A copy of the ___(G)___ is available from the Michigan Department of Environmental Quality (MDEQ), Remediation and Redevelopment Division (RRD) District Office.

The Property described contains regulated substances in excess of the concentrations developed as the unrestricted residential cleanup criteria under Section 21304a(2) of the NREPA. The MDEQ recommends that prospective purchasers or users of this Property undertake appropriate due diligence prior to acquiring or using this Property, and undertake appropriate actions to comply with the requirements of Section 21304c of the NREPA.

Part 213 requires the recording of this Restrictive Covenant with the ___(C)___ County Register of Deeds based upon the corrective action measures for the site to: 1) restrict unacceptable exposures to regulated substances located on the Property; 2) assure that the use of the Property is consistent with the exposure assumptions used to develop cleanup criteria under Section 21304a(2) of the NREPA; and 3) assure the exposure control measures relied upon in the ___(G)___ are effective; ___(I)___.

The restrictions contained in this Restrictive Covenant are based upon information available at the time the corrective action was implemented by ___(J)___ . Failure of the corrective action to achieve and maintain the cleanup criteria, exposure controls, and requirements specified in the ___(G)___; future changes in the environmental condition of the Property; changes in the cleanup criteria developed under Section 21304a(2) of the NREPA; the discovery of environmental conditions at the Property that were not accounted for in the ___(G)___; or use of the Property in a manner inconsistent with the restrictions described herein may result in this Restrictive Covenant not being protective of public health, safety, and welfare, and the environment. The adequacy of the corrective action undertaken pursuant to the ___(G)___ may not have been reviewed by the MDEQ

Definitions

For the purposes of this Restrictive Covenant, the following definitions shall apply:

“MDEQ” means the Michigan Department of Environmental Quality, its successor entities, and those persons or entities acting on its behalf.

“Owner” means at any given time the then-current title holder of all or any portion of the Property.

“Property” means the real property as described in Exhibit 2 (Legal Description of the Property) of this Restrictive Covenant that is subject to the restrictions, terms and conditions described herein.

All other terms used in this document which are defined in Part 3, Definitions, of the NREPA and Part 213 of the NREPA, shall have the same meaning in this document as in Part 3 and Part 213 of the NREPA, as of the date this Restrictive Covenant is filed.

Summary of Environmental Conditions and Corrective Action.

___(K)___

NOW THEREFORE,

1. Declaration of Land or Resource Use Restrictions.

___(J)___, ___(L)___ hereby declares and covenants that the Property shall be subject to the following restrictions and conditions:

a. ___(M)___

b. Prohibited Activities to Eliminate Unacceptable Exposures to Regulated Substances.
The Owner shall prohibit activities ___(N)___ that may result in exposures above levels established in the ___(G)___ . These prohibited activities include:

___(O)___

c. Prohibited Activities to Ensure Effectiveness and Integrity of the Corrective Action.
The Owner shall prohibit activities on the Property that may interfere with any element of the ___(G)___, including the performance of operation and maintenance activities, monitoring, or other measures necessary to ensure the effectiveness and integrity of the ___(G)___ . These prohibited activities include:

___(P)___

2. Contaminated Soil Management. The Owner shall manage all soils, media, and/or debris located ___(N)___ in accordance with the applicable requirements of Sections 21304b of the NREPA; Part 111, Hazardous Waste Management, of the NREPA; Subtitle C of the Resource Conservation and Recovery Act, 42 USC Section 6901 *et seq.*; the administrative rules promulgated thereunder; and all other relevant state and federal laws.

3. Access. The Owner grants to the MDEQ and ___(J)___, and their designated representatives, the right to enter the Property at reasonable times for the purpose of determining and monitoring compliance with the ___(G)___, including the right to take samples, inspect the operation and maintenance of the corrective action measures and inspect any records relating to them, and to perform any actions necessary to maintain compliance with Part 213 and the ___(G)___ . The right of access provided to ___(J)___ above is not required under Part 213 for the corrective action to be considered approved. This provision was agreed to by the Owner at the time the Restrictive Covenant was recorded. Accordingly, The MDEQ will not enforce the Owner's obligation to provide access to ___(J)___.

4. Conveyance of Property Interest. A conveyance of title, easement, or other interest in the Property shall not be consummated by the Owner without adequate and complete provision for compliance with the terms of the ___(G)___, and this Restrictive Covenant. A copy of this Restrictive Covenant shall be provided to all future owners, heirs, successors, lessees, easement holders, assigns, and transferees by the person transferring the interest in accordance with Section 21310a(2)(c) of the NREPA.

5. Audits Pursuant to Section 21315 of the NREPA. This Restrictive Covenant is subject to audits in accordance with the provisions of Section 21315 of the NREPA, and such an audit may result in a finding by the MDEQ that this Restrictive Covenant is not protective of the public health, safety, and welfare, and the environment.

6. Term of Restrictive Covenant. This Restrictive Covenant shall run with the Property and is binding on the Owner; future owners; and their successors and assigns, lessees, easement holders, and any authorized agents, employees, or persons acting under their direction and control. This Restrictive Covenant shall continue in effect until it is determined that the regulated substances no longer present an unacceptable risk to the public health, safety, or welfare, or the environment. Improper modification or rescission of any restriction necessary to prevent unacceptable exposure to regulated substances may result in the need to perform additional corrective actions by those parties responsible for performing corrective action at the Property or to comply with Section 21304c of the NREPA.

7. Enforcement of Restrictive Covenant. The State of Michigan, through the MDEQ, and ___(J)___ may individually enforce the restrictions set forth in this Restrictive Covenant by legal action in a court of competent jurisdiction

8. Severability. If any provision of this Restrictive Covenant is held to be invalid by any court of competent jurisdiction, the invalidity of that provision shall not affect the validity of any other provision of this Restrictive Covenant, which shall continue unimpaired and in full force and effect.

9. Authority to Execute Restrictive Covenant. The undersigned person executing this Restrictive Covenant is the Owner, or has the express written permission of the Owner ___(Q)___, and represents and certifies that he or she is duly authorized and has been empowered to execute and record this Restrictive Covenant.

IN WITNESS WHEREOF, ___(J)___ has caused this Restrictive Covenant, ___(B)___, to be executed on this ___(R)___ day of ___(S)___, 20___(T)___.

___(J)___

By: _____
Signature

Name: _____
Print or Type Name

Its: _____
Title

STATE OF ___(U)___
COUNTY OF ___(V)___

___(W)___

Notary Public Signature
___(X)___

Prepared by:
___(Y)___

When recorded return to:
___(Z)___

EXHIBIT 1

CONSENT OF OWNER

I, ___(AA)___, the current and legal Owner of the Property, do hereby consent to the recording of this Restrictive Covenant, ___(B)___, and authorize ___(BB)___ to file the Restrictive Covenant with the ___(C)___ County Register of Deeds for recording.

___(AA)___

By: _____
Signature

Name: _____
Print or Type Name

Its: _____
Title

STATE OF ___(U)___
COUNTY OF ___(V)___

___(W)___

Notary Public Signature
___(X)___

EXHIBIT 2

LEGAL DESCRIPTION OF PROPERTY

EXHIBIT 3

SURVEY OF THE PROPERTY

OR

**SURVEY OF THE PROPERTY
AND LIMITS OF LAND OR RESOURCE USE RESTRICTIONS**

EXHIBIT 4

DESCRIPTION OF ALLOWABLE USES

Insert appropriate option from instruction ____ (CC) ____

EXHIBIT 5

CONSENT OF EASEMENT HOLDERS

As evidenced below by my signature, I agree and consent to the recording of the land and resource use restrictions specified in this Restrictive Covenant and hereby agree that my property interest shall be subject to, and subordinate to, the terms of the Restrictive Covenant.

____(DD)____

By: _____
Signature

Name: _____
Print or Type Name

Its: _____
Title

STATE OF ____ (U) ____
COUNTY OF ____ (V) ____

____(W)____

Notary Public Signature
____(X)____



Wood Environment & Infrastructure Solutions, Inc.
41 Hughes Drive
Traverse City, MI 49696
USA

T:231.922.9050

www.woodplc.com

October 8, 2019

Mr. Paul Schmuckal
Schmuckal Oil Company
1516 Barlow Street
Traverse City, MI 49686

Subject: **Groundwater Contamination Delineation Investigation
Spring Lake Shell Mini Mart
728 E. Savidge Street, Spring Lake, MI 49456
Facility ID #00013470
Wood Project Number #3310160019**

Dear Mr. Schmuckal:

Wood Environment & Infrastructure Solutions, Inc. (Wood) recently completed groundwater contamination delineation activities at the Spring Lake Shell Mini Mart (Site), located at 728 E. Savidge Street, Spring Lake, MI 49456, as outlined in our November 16, 2018 Groundwater Contamination Delineation proposal.

SITE INVESTIGATION

Delineation activities included:

- vertical aquifer profile (VAP) sampling at the southern property boundary, and
- within the River Street road right-of-way to the south;
- quarterly groundwater sampling at 9 monitoring wells.

Five VAP borings (VP-4 through VP-8) were advanced as shown on Figure 1, collecting groundwater samples at 40, 50, 60 and 70 feet (ft) below ground level (bgl) for analysis of unleaded gasoline parameters. Wood was unable secure access to collect samples at the Stone Gate Condo properties boarding the Site to the south, our preferred investigation location. Instead, borings were advance further to the south on River Street.

RESULTS

Gasoline indicator compounds were detected in VP-5, 50 ft bgl. This boring was installed to delineate the eastern extent of the groundwater plume. These results suggest additional work is needed to delineate the eastern edge of the plume.

Borings VP-4 and VP-5 delineate the vertical extent of the plume at approximately 60 ft bgl.

Gasoline indicator compounds were not detected at VP-6, VP-7 and VP-8, located along River Street.



Mr. Paul Schmuckal
October 8, 2019
Page 2

Monitoring well analysis results were consistent with previous results, except concentrations at the MW-4d source area show significant decreases.

Groundwater analyses are summarized in Table 1 and groundwater elevation measurements are included in Table 2. Sample locations are shown on Figure 1 and cross-sections of borings are depicted on Figure 2. Laboratory analytical reports are included in Attachment 1. Boring logs are included in Attachment 2.

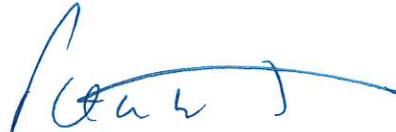
Wood will prepare a separate scope of work and proposal for additional groundwater delineation. Should you have any questions, comments, or require any additional information, please contact our office at (231) 922-9050.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.



Robert J. Lint, CPG
Senior Scientist



Peter D. Neithercut, PE
Senior Principal Engineer

Enclosures



TABLES

Table 1: Groundwater Analytical Summary

Sample ID	Screened Interval (ft bgl)	Sample Date	Benzene	Toluene	EthylB	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naph	2-Mnaph
RDWC			5	790	74	280	63	72	40	520	260
GSI			200	270	18	41	17	45	7100	11	19
MW-1	20-30	03/15/17	<1	<1	<1	<3	14	<1	<5	<5	<5
MW-1	20-30	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-1	20-30	05/30/19	<1	<1	<1	3	17	<1	<5	<5	<10
MW-2	20-30	03/15/17	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-2	20-30	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-2	20-30	05/30/19	<1	<1	8	<3	<1	<1	<5	<5	<10
MW-4s	20-30	03/15/17	<1	6	180	154	180	6	<5	78	18
MW-4s	20-30	08/02/18	<1	5	244	212	164	13	<5	83	13
MW-4s	20-30	05/30/19	<1	2	164	114	135	4	<1	18	<10
MW-4d	40-45	03/15/17	<25	<25	1,200	220	450	29	<125	<250	<250
MW-4d	40-45	08/02/18	<1	3	496	34	215	5	<5	72	<5
MW-4d	40-45	05/31/19	<1	<1	20	<3	27	<1	<5	<5	<10
MW-12	22-27	03/15/17	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-12	22-27	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-12	22-27	05/20/19	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-13	22-27	03/16/17	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-13	22-27	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-13	22-27	05/20/19	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-14	22-27	03/16/17	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-14	22-27	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-14	22-27	05/20/19	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-15	20-25	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-15	20-25	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-16	20-25	08/02/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
MW-16	20-25	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-1	50-55	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-1	60-65	07/24/18	<1	<1	1	3	<1	<1	<5	<5	<5
VAP-2	30-35	07/24/18	<1	<1	2	<3	7	1	<5	<5	<5
VAP-2	40-45	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-2	50-55	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-2	60-65	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-3	30-35	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-3	40-45	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-3	50-55	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-4	25-30	07/24/18	<1	<1	<1	<3	<1	<1	<5	<5	<5
VAP-4	35-40	07/24/18	<1	10	85	182	84	7	<5	11	<5
VAP-4	45-50	07/24/18	<1	<1	664	1,020	368	81	<5	103	<5
VAP-4	60	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-4	70	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-5	40	05/30/19	<1	4	66	36	43	5	<5	<5	<10
VAP-5	50	05/30/19	<1	82	2,640	3,920	1,270	264	<5	<250	<10
VAP-5	60	05/30/19	<1	<1	8	<3	<1	<1	<5	<5	<10
VAP-5	70	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-6	40	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-6	50	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-6	60	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-6	70	05/30/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-7	40	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-7	50	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-7	60	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-7	70	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-8	40	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-8	50	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-8	60	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10
VAP-8	70	05/31/19	<1	<1	<1	<3	<1	<1	<5	<5	<10

Analytical results reported in µg/L (micrograms per liter)
 ft bgl = feet below ground level
Bold = Concentration exceeds RDW RBSL
 = Concentration exceeds GSI RBSL
 RDW = Part 213 residential drinking water
 RBSL = risk-based screening level

EthylB = Ethylbenzene
 TMB = Trimethylbenzene
 MTBE = Methyl-tert-butyl ether
 Naph = Naphthalene
 Mnaph = Methylnaphthalene

Wood Environment & Infrastructure Solutions, Inc.

Prepared by: R.JL Date: 10/01/19
 Checked by: AKC Date: 10/03/19
 Page 1 of 1

Table 2: Groundwater Elevation Measurements

Well	Total Depth	Top of casing	Depth to Water (May 2019)	Groundwater Elevation July 25, 2018	Groundwater Elevation August 2, 2018	Groundwater Elevation October 25, 2018	Groundwater Elevation May 2019
MW-1	29.9	604.04	20.21	582.79	582.64	583.41	583.83
MW-2	30.3	603.96	19.95	582.76	582.67	583.40	584.01
MW-3	--	603.09		582.74	--	--	603.09
MW-4s	29.8	602.70	18.39	--	582.69	583.45	584.31
MW-4d	43.5	603.16	19.02	582.83	582.74	583.49	584.14
MW-12	26.7	603.96	21.39	582.78	582.67	583.42	582.57
MW-13	27.7	604.77	20.96	582.76	582.68	583.43	583.81
MW-14	27.3	605.38	21.61	582.75	582.63	583.38	583.77
MW-15	23.3	604.00	19.86	582.84	582.75	583.51	584.14
MW-16	24.3	603.86	18.90	582.84	582.76	583.48	584.96

all measurements in feet

-- not recorded

FIGURES

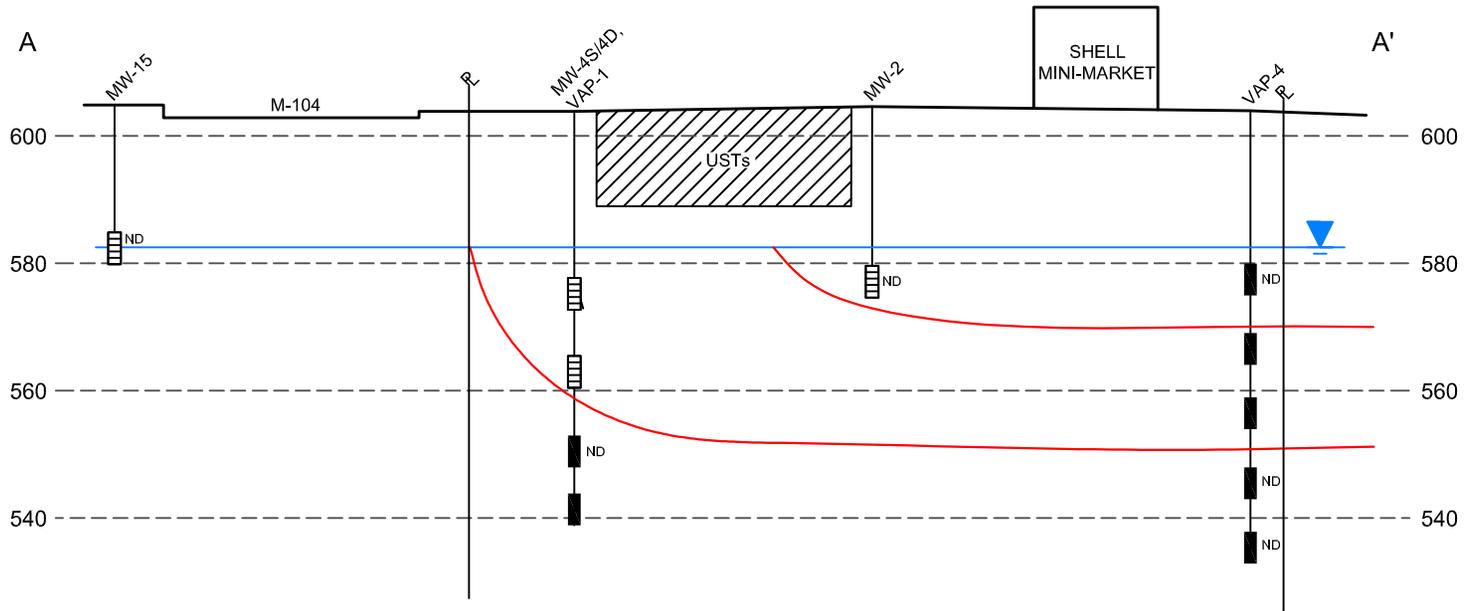


LEGEND

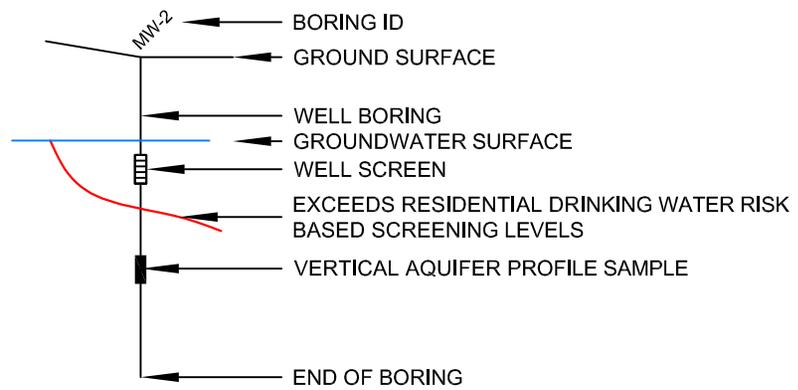
- x-x-x- FENCE
- SW— STORM SEWER/CATCH BASIN
- T— UNDERGROUND TELEPHONE
- OHE— OVERHEAD ELECTRIC
- W— WATER MAIN
- SAN— SANITARY SEWER
- VERTICAL AQUIFER PROFILE
- ⊕ MONITORING WELL
- ⊕ RECOVERY WELL
- SOIL BORING
- ▨ BUILDING
- ASPHALT/CONCRETE



Prepared/Date: ARW 11/29/2018
Checked/Date: RJL 11/29/2018



1" = 30'
1" = 30'



Prepared/Date: ARW 09/18/2018
Checked/Date: RJL 09/18/2018

SCHMUCKAL OIL SPRING LAKE
GRAND HAVEN, MICHIGAN



CROSS SECTION A-A'

FIGURE 2

ATTACHMENT 1

LABORATORY ANALYTICAL REPORTS

June 11, 2019



Wood E & I Solutions -MI

Sample Delivery Group: L1105112
Samples Received: 06/04/2019
Project Number: 3310160019
Description: Schmuckal Spring Lake

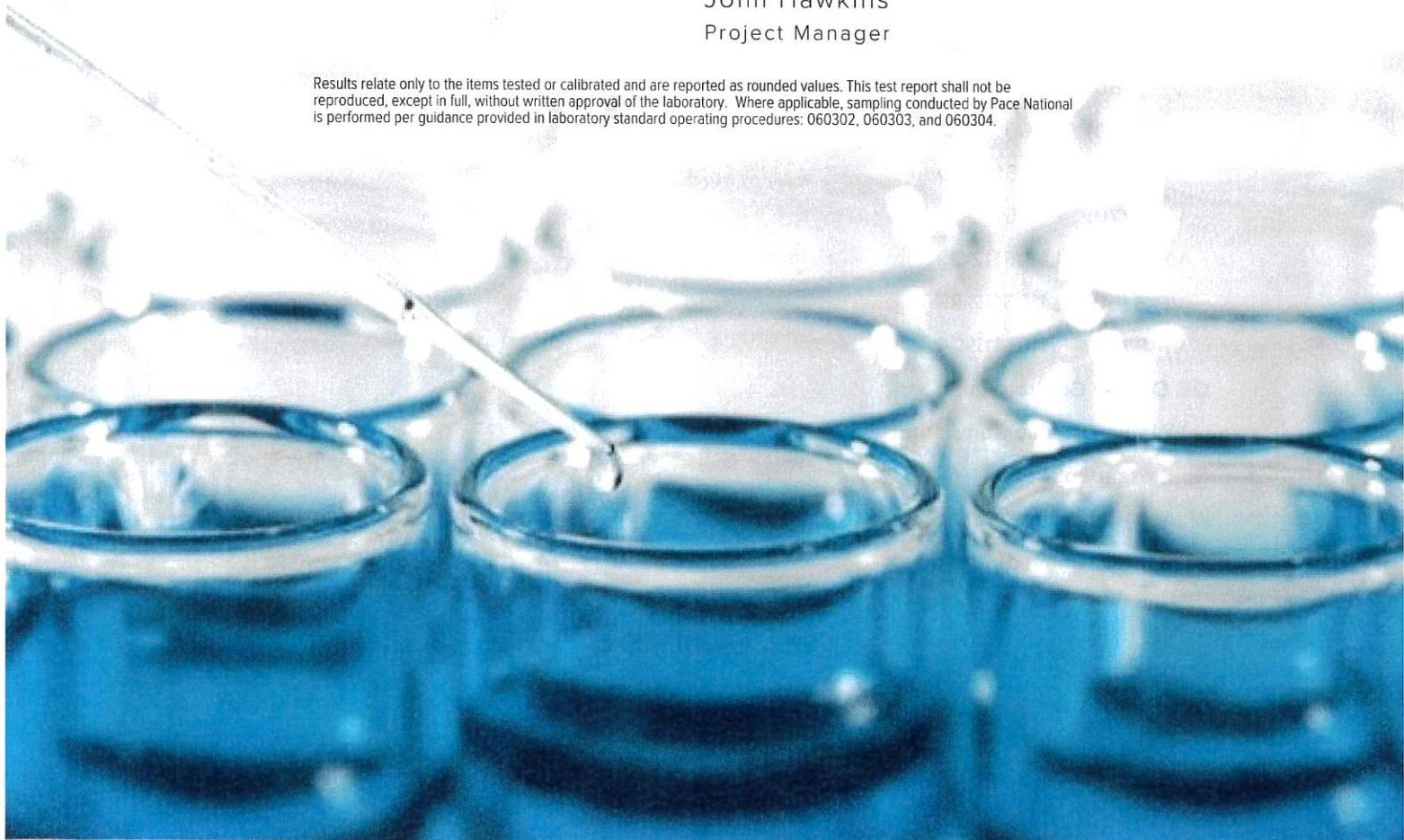
Report To: Robert J Lint
41 Hughes Drive
Traverse City, MI 49696

Entire Report Reviewed By:



John Hawkins
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
MW-1 L1105112-01	7
MW-4S L1105112-02	8
MW-2 L1105112-03	9
MW-4D L1105112-04	10
MW-16 L1105112-05	11
MW-15 L1105112-06	12
VP-4 (70) L1105112-07	13
VP-4 (60) L1105112-08	14
VP-5 (70) L1105112-09	15
VP-5 (60) L1105112-10	16
VP-5 (50) L1105112-11	17
VP-5 (40) L1105112-12	18
VP-6 (70) L1105112-13	19
VP-6 (60) L1105112-14	20
VP-6 (50) L1105112-15	21
VP-6 (40) L1105112-16	22
VP-7 (70) L1105112-17	23
VP-7 (60) L1105112-18	24
VP-7 (50) L1105112-19	25
VP-7 (40) L1105112-20	26
VP-8 (70) L1105112-21	27
VP-8 (60) L1105112-22	28
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Al: Accreditations & Locations	37
Sc: Sample Chain of Custody	38

1	Cp
2	Tc
3	Ss
6	Cn
7	Sr
7	Qc
7	Gl
14	Al
16	Sc

SAMPLE SUMMARY

MW-1 L1105112-01 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 09:13
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 05:58	06/09/19 05:58	DWR	Mt. Juliet, TN

MW-4S L1105112-02 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 10:04
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 06:20	06/09/19 06:20	DWR	Mt. Juliet, TN

MW-2 L1105112-03 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 14:31
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 06:41	06/09/19 06:41	DWR	Mt. Juliet, TN

MW-4D L1105112-04 GW

Collected by
Ashlee Charters
Collected date/time
05/31/19 06:56
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 07:03	06/09/19 07:03	DWR	Mt. Juliet, TN

MW-16 L1105112-05 GW

Collected by
Ashlee Charters
Collected date/time
05/31/19 08:13
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 07:25	06/09/19 07:25	DWR	Mt. Juliet, TN

MW-15 L1105112-06 GW

Collected by
Ashlee Charters
Collected date/time
05/31/19 07:38
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 07:47	06/09/19 07:47	DWR	Mt. Juliet, TN

VP-4 (70) L1105112-07 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 00:00
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 08:08	06/09/19 08:08	DWR	Mt. Juliet, TN

VP-4 (60) L1105112-08 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 00:00
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 08:30	06/09/19 08:30	DWR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SAMPLE SUMMARY



VP-5 (70) L1105112-09 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 12:20
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 08:52	06/09/19 08:52	DWR	Mt. Juliet, TN

VP-5 (60) L1105112-10 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 13:20
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 09:14	06/09/19 09:14	DWR	Mt. Juliet, TN

VP-5 (50) L1105112-11 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 13:45
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 09:35	06/09/19 09:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1294268	50	06/11/19 14:51	06/11/19 14:51	DWR	Mt. Juliet, TN

VP-5 (40) L1105112-12 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 14:00
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 09:57	06/09/19 09:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1294268	1	06/11/19 15:13	06/11/19 15:13	DWR	Mt. Juliet, TN

VP-6 (70) L1105112-13 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 15:41
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 10:19	06/09/19 10:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1294268	1	06/11/19 15:35	06/11/19 15:35	DWR	Mt. Juliet, TN

VP-6 (60) L1105112-14 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 16:36
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 10:41	06/09/19 10:41	DWR	Mt. Juliet, TN

VP-6 (50) L1105112-15 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 16:54
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 11:02	06/09/19 11:02	DWR	Mt. Juliet, TN

VP-6 (40) L1105112-16 GW

Collected by
Ashlee Charters
Collected date/time
05/30/19 17:09
Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 11:24	06/09/19 11:24	DWR	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

SAMPLE SUMMARY



VP-7 (70) L1105112-17 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 09:00

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 11:46	06/09/19 11:46	DWR	Mt. Juliet, TN

VP-7 (60) L1105112-18 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 09:30

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 12:07	06/09/19 12:07	DWR	Mt. Juliet, TN

VP-7 (50) L1105112-19 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 09:48

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 12:29	06/09/19 12:29	DWR	Mt. Juliet, TN

VP-7 (40) L1105112-20 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 10:00

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293331	1	06/09/19 12:51	06/09/19 12:51	DWR	Mt. Juliet, TN

VP-8 (70) L1105112-21 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 10:22

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293392	1	06/09/19 12:10	06/09/19 12:10	ACG	Mt. Juliet, TN

VP-8 (60) L1105112-22 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 10:45

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293392	1	06/09/19 12:31	06/09/19 12:31	ACG	Mt. Juliet, TN

VP-8 (50) L1105112-23 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 11:15

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293392	1	06/09/19 12:51	06/09/19 12:51	ACG	Mt. Juliet, TN

VP-8 (40) L1105112-24 GW

Collected by
Ashlee Charters

Collected date/time
05/31/19 11:25

Received date/time
06/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1293392	1	06/09/19 13:12	06/09/19 13:12	ACG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 G

8 Al

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Ch

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 05:58	WG1293331
Toluene	ND		0.00100	1	06/09/2019 05:58	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 05:58	WG1293331
Xylenes, Total	0.00307		0.00300	1	06/09/2019 05:58	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 05:58	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 05:58	WG1293331
1,2,4-Trimethylbenzene	0.0165		0.00100	1	06/09/2019 05:58	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 05:58	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 05:58	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 05:58	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 05:58	WG1293331
Ethanol	ND		0.100	1	06/09/2019 05:58	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 05:58	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 05:58	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 05:58	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 05:58	WG1293331
(S) Toluene-d8	101		80.0-120		06/09/2019 05:58	WG1293331
(S) 4-Bromofluorobenzene	97.8		77.0-126		06/09/2019 05:58	WG1293331
(S) 1,2-Dichloroethane-d4	105		70.0-130		06/09/2019 05:58	WG1293331

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/30/19 10:04

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 06:20	WG1293331
Toluene	0.00170		0.00100	1	06/09/2019 06:20	WG1293331
Ethylbenzene	0.164		0.00100	1	06/09/2019 06:20	WG1293331
Xylenes, Total	0.114		0.00300	1	06/09/2019 06:20	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 06:20	WG1293331
Naphthalene	0.0183		0.00500	1	06/09/2019 06:20	WG1293331
1,2,4-Trimethylbenzene	0.135		0.00100	1	06/09/2019 06:20	WG1293331
1,2,3-Trimethylbenzene	0.0304		0.00100	1	06/09/2019 06:20	WG1293331
1,3,5-Trimethylbenzene	0.00426		0.00100	1	06/09/2019 06:20	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 06:20	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 06:20	WG1293331
Ethanol	ND		0.100	1	06/09/2019 06:20	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 06:20	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 06:20	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 06:20	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 06:20	WG1293331
(S) Toluene-d8	91.7		80.0-120		06/09/2019 06:20	WG1293331
(S) 4-Bromofluorobenzene	90.7		77.0-126		06/09/2019 06:20	WG1293331
(S) 1,2-Dichloroethane-d4	106		70.0-130		06/09/2019 06:20	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 05/30/19 14:31

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 06:41	WG1293331
Toluene	ND		0.00100	1	06/09/2019 06:41	WG1293331
Ethylbenzene	0.00773		0.00100	1	06/09/2019 06:41	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 06:41	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 06:41	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 06:41	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 06:41	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 06:41	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 06:41	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 06:41	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 06:41	WG1293331
Ethanol	ND		0.100	1	06/09/2019 06:41	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 06:41	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 06:41	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 06:41	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 06:41	WG1293331
(S) Toluene-d8	98.9		80.0-120		06/09/2019 06:41	WG1293331
(S) 4-Bromofluorobenzene	94.6		77.0-126		06/09/2019 06:41	WG1293331
(S) 1,2-Dichloroethane-d4	102		70.0-130		06/09/2019 06:41	WG1293331





Collected date/time: 05/31/19 06:56

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 07:03	WG1293331
Toluene	ND		0.00100	1	06/09/2019 07:03	WG1293331
Ethylbenzene	0.0197		0.00100	1	06/09/2019 07:03	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 07:03	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 07:03	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 07:03	WG1293331
1,2,4-Trimethylbenzene	0.0273		0.00100	1	06/09/2019 07:03	WG1293331
1,2,3-Trimethylbenzene	0.00670		0.00100	1	06/09/2019 07:03	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:03	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 07:03	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 07:03	WG1293331
Ethanol	ND		0.100	1	06/09/2019 07:03	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 07:03	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 07:03	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 07:03	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 07:03	WG1293331
(S) Toluene-d8	95.7		80.0-120		06/09/2019 07:03	WG1293331
(S) 4-Bromofluorobenzene	90.2		77.0-126		06/09/2019 07:03	WG1293331
(S) 1,2-Dichloroethane-d4	107		70.0-130		06/09/2019 07:03	WG1293331

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/31/19 08:13

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 07:25	WG1293331
Toluene	ND		0.00100	1	06/09/2019 07:25	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 07:25	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 07:25	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 07:25	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 07:25	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:25	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:25	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:25	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 07:25	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 07:25	WG1293331
Ethanol	ND		0.100	1	06/09/2019 07:25	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 07:25	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 07:25	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 07:25	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 07:25	WG1293331
(S) Toluene-d8	101		80.0-120		06/09/2019 07:25	WG1293331
(S) 4-Bromofluorobenzene	91.5		77.0-126		06/09/2019 07:25	WG1293331
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/09/2019 07:25	WG1293331

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc



Collected date/time: 05/31/19 07:38

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	06/09/2019 07:47	WG1293331
Toluene	ND		0.00100	1	06/09/2019 07:47	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 07:47	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 07:47	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 07:47	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 07:47	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:47	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:47	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 07:47	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 07:47	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 07:47	WG1293331
Ethanol	ND		0.100	1	06/09/2019 07:47	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 07:47	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 07:47	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 07:47	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 07:47	WG1293331
(S) Toluene-d8	104		80.0-120		06/09/2019 07:47	WG1293331
(S) 4-Bromofluorobenzene	95.7		77.0-126		06/09/2019 07:47	WG1293331
(S) 1,2-Dichloroethane-d4	108		70.0-130		06/09/2019 07:47	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 08:08	WG1293331
Toluene	ND		0.00100	1	06/09/2019 08:08	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 08:08	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 08:08	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 08:08	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 08:08	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:08	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:08	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:08	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 08:08	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 08:08	WG1293331
Ethanol	ND		0.100	1	06/09/2019 08:08	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 08:08	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 08:08	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 08:08	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 08:08	WG1293331
(S) Toluene-d8	99.0		80.0-120		06/09/2019 08:08	WG1293331
(S) 4-Bromofluorobenzene	87.3		77.0-126		06/09/2019 08:08	WG1293331
(S) 1,2-Dichloroethane-d4	111		70.0-130		06/09/2019 08:08	WG1293331

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gr

8 Al

9 Sc



Collected date/time: 05/30/19 00:00

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	06/09/2019 08:30	WG1293331
Toluene	ND		0.00100	1	06/09/2019 08:30	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 08:30	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 08:30	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 08:30	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 08:30	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:30	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:30	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:30	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 08:30	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 08:30	WG1293331
Ethanol	ND		0.100	1	06/09/2019 08:30	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 08:30	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 08:30	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 08:30	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 08:30	WG1293331
(S) Toluene-d8	94.9		80.0-120		06/09/2019 08:30	WG1293331
(S) 4-Bromofluorobenzene	86.3		77.0-126		06/09/2019 08:30	WG1293331
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/09/2019 08:30	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 08:52	WG1293331
Toluene	ND		0.00100	1	06/09/2019 08:52	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 08:52	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 08:52	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 08:52	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 08:52	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:52	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:52	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 08:52	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 08:52	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 08:52	WG1293331
Ethanol	ND		0.100	1	06/09/2019 08:52	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 08:52	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 08:52	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 08:52	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 08:52	WG1293331
(S) Toluene-d8	99.7		80.0-120		06/09/2019 08:52	WG1293331
(S) 4-Bromofluorobenzene	91.6		77.0-126		06/09/2019 08:52	WG1293331
(S) 1,2-Dichloroethane-d4	109		70.0-130		06/09/2019 08:52	WG1293331

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gr

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 09:14	WG1293331
Toluene	ND		0.00100	1	06/09/2019 09:14	WG1293331
Ethylbenzene	0.00818		0.00100	1	06/09/2019 09:14	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 09:14	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 09:14	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 09:14	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 09:14	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 09:14	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 09:14	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 09:14	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 09:14	WG1293331
Ethanol	ND		0.100	1	06/09/2019 09:14	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 09:14	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 09:14	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 09:14	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 09:14	WG1293331
(S) Toluene-d8	93.5		80.0-120		06/09/2019 09:14	WG1293331
(S) 4-Bromofluorobenzene	88.3		77.0-126		06/09/2019 09:14	WG1293331
(S) 1,2-Dichloroethane-d4	111		70.0-130		06/09/2019 09:14	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gt
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 09:35	WG1293331
Toluene	0.0823		0.00100	1	06/09/2019 09:35	WG1293331
Ethylbenzene	2.64		0.0500	50	06/11/2019 14:51	WG1294268
Xylenes, Total	3.92		0.150	50	06/11/2019 14:51	WG1294268
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 09:35	WG1293331
Naphthalene	ND		0.250	50	06/11/2019 14:51	WG1294268
1,2,4-Trimethylbenzene	1.27		0.0500	50	06/11/2019 14:51	WG1294268
1,2,3-Trimethylbenzene	0.459		0.0500	50	06/11/2019 14:51	WG1294268
1,3,5-Trimethylbenzene	0.264		0.0500	50	06/11/2019 14:51	WG1294268
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 09:35	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 09:35	WG1293331
Ethanol	ND		0.100	1	06/09/2019 09:35	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 09:35	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 09:35	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 09:35	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 09:35	WG1293331
(S) Toluene-d8	109		80.0-120		06/09/2019 09:35	WG1293331
(S) Toluene-d8	96.0		80.0-120		06/11/2019 14:51	WG1294268
(S) 4-Bromofluorobenzene	107		77.0-126		06/09/2019 09:35	WG1293331
(S) 4-Bromofluorobenzene	87.8		77.0-126		06/11/2019 14:51	WG1294268
(S) 1,2-Dichloroethane-d4	118		70.0-130		06/09/2019 09:35	WG1293331
(S) 1,2-Dichloroethane-d4	102		70.0-130		06/11/2019 14:51	WG1294268

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/30/19 14:00

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 09:57	WG1293331
Toluene	0.00386		0.00100	1	06/11/2019 15:13	WG1294268
Ethylbenzene	0.0664		0.00100	1	06/11/2019 15:13	WG1294268
Xylenes, Total	0.0362		0.00300	1	06/11/2019 15:13	WG1294268
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 09:57	WG1293331
Naphthalene	ND		0.00500	1	06/11/2019 15:13	WG1294268
1,2,4-Trimethylbenzene	0.0429		0.00100	1	06/11/2019 15:13	WG1294268
1,2,3-Trimethylbenzene	0.00732		0.00100	1	06/11/2019 15:13	WG1294268
1,3,5-Trimethylbenzene	0.00477		0.00100	1	06/11/2019 15:13	WG1294268
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 09:57	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 09:57	WG1293331
Ethanol	ND		0.100	1	06/09/2019 09:57	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 09:57	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 09:57	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 09:57	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 09:57	WG1293331
(S) Toluene-d8	96.4		80.0-120		06/09/2019 09:57	WG1293331
(S) Toluene-d8	96.1		80.0-120		06/11/2019 15:13	WG1294268
(S) 4-Bromofluorobenzene	93.1		77.0-126		06/09/2019 09:57	WG1293331
(S) 4-Bromofluorobenzene	90.8		77.0-126		06/11/2019 15:13	WG1294268
(S) 1,2-Dichloroethane-d4	104		70.0-130		06/09/2019 09:57	WG1293331
(S) 1,2-Dichloroethane-d4	101		70.0-130		06/11/2019 15:13	WG1294268

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 10:19	WG1293331
Toluene	ND		0.00100	1	06/09/2019 10:19	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 10:19	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 10:19	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 10:19	WG1293331
Naphthalene	ND		0.00500	1	06/11/2019 15:35	WG1294268
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 10:19	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 10:19	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 10:19	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 10:19	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 10:19	WG1293331
Ethanol	ND		0.100	1	06/09/2019 10:19	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 10:19	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 10:19	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 10:19	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 10:19	WG1293331
(S) Toluene-d8	100		80.0-120		06/09/2019 10:19	WG1293331
(S) Toluene-d8	102		80.0-120		06/11/2019 15:35	WG1294268
(S) 4-Bromofluorobenzene	90.4		77.0-126		06/09/2019 10:19	WG1293331
(S) 4-Bromofluorobenzene	90.6		77.0-126		06/11/2019 15:35	WG1294268
(S) 1,2-Dichloroethane-d4	106		70.0-130		06/09/2019 10:19	WG1293331
(S) 1,2-Dichloroethane-d4	104		70.0-130		06/11/2019 15:35	WG1294268

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	06/09/2019 10:41	WG1293331
Toluene	ND		0.00100	1	06/09/2019 10:41	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 10:41	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 10:41	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 10:41	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 10:41	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 10:41	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 10:41	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 10:41	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 10:41	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 10:41	WG1293331
Ethanol	ND		0.100	1	06/09/2019 10:41	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 10:41	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 10:41	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 10:41	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 10:41	WG1293331
(S) Toluene-d8	102		80.0-120		06/09/2019 10:41	WG1293331
(S) 4-Bromofluorobenzene	91.9		77.0-126		06/09/2019 10:41	WG1293331
(S) 1,2-Dichloroethane-d4	105		70.0-130		06/09/2019 10:41	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 11:02	WG1293331
Toluene	ND		0.00100	1	06/09/2019 11:02	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 11:02	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 11:02	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 11:02	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 11:02	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:02	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:02	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:02	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 11:02	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 11:02	WG1293331
Ethanol	ND		0.100	1	06/09/2019 11:02	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 11:02	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 11:02	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 11:02	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 11:02	WG1293331
(S) Toluene-d8	101		80.0-120		06/09/2019 11:02	WG1293331
(S) 4-Bromofluorobenzene	97.4		77.0-126		06/09/2019 11:02	WG1293331
(S) 1,2-Dichloroethane-d4	106		70.0-130		06/09/2019 11:02	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gr
8 Al
9 Sc



Collected date/time: 05/30/19 17:09

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 11:24	WG1293331
Toluene	ND		0.00100	1	06/09/2019 11:24	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 11:24	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 11:24	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 11:24	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 11:24	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:24	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:24	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:24	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 11:24	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 11:24	WG1293331
Ethanol	ND		0.100	1	06/09/2019 11:24	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 11:24	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 11:24	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 11:24	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 11:24	WG1293331
(S) Toluene-d8	102		80.0-120		06/09/2019 11:24	WG1293331
(S) 4-Bromofluorobenzene	90.5		77.0-126		06/09/2019 11:24	WG1293331
(S) 1,2-Dichloroethane-d4	107		70.0-130		06/09/2019 11:24	WG1293331

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 11:46	WG1293331
Toluene	ND		0.00100	1	06/09/2019 11:46	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 11:46	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 11:46	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 11:46	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 11:46	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:46	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:46	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 11:46	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 11:46	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 11:46	WG1293331
Ethanol	ND		0.100	1	06/09/2019 11:46	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 11:46	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 11:46	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 11:46	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 11:46	WG1293331
(S) Toluene-d8	98.0		80.0-120		06/09/2019 11:46	WG1293331
(S) 4-Bromofluorobenzene	86.9		77.0-126		06/09/2019 11:46	WG1293331
(S) 1,2-Dichloroethane-d4	106		70.0-130		06/09/2019 11:46	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 12:07	WG1293331
Toluene	ND		0.00100	1	06/09/2019 12:07	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 12:07	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 12:07	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 12:07	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 12:07	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:07	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:07	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:07	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:07	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 12:07	WG1293331
Ethanol	ND		0.100	1	06/09/2019 12:07	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:07	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 12:07	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 12:07	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 12:07	WG1293331
(S) Toluene-d8	102		80.0-120		06/09/2019 12:07	WG1293331
(S) 4-Bromofluorobenzene	90.7		77.0-126		06/09/2019 12:07	WG1293331
(S) 1,2-Dichloroethane-d4	111		70.0-130		06/09/2019 12:07	WG1293331

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 12:29	WG1293331
Toluene	ND		0.00100	1	06/09/2019 12:29	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 12:29	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 12:29	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 12:29	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 12:29	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:29	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:29	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:29	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:29	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 12:29	WG1293331
Ethanol	ND		0.100	1	06/09/2019 12:29	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:29	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 12:29	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 12:29	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 12:29	WG1293331
(S) Toluene-d8	98.5		80.0-120		06/09/2019 12:29	WG1293331
(S) 4-Bromofluorobenzene	89.6		77.0-126		06/09/2019 12:29	WG1293331
(S) 1,2-Dichloroethane-d4	110		70.0-130		06/09/2019 12:29	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Collected date/time: 05/31/19 10:00

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	06/09/2019 12:51	WG1293331
Toluene	ND		0.00100	1	06/09/2019 12:51	WG1293331
Ethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293331
Xylenes, Total	ND		0.00300	1	06/09/2019 12:51	WG1293331
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 12:51	WG1293331
Naphthalene	ND		0.00500	1	06/09/2019 12:51	WG1293331
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293331
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293331
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293331
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:51	WG1293331
Di-isopropyl ether	ND		0.00100	1	06/09/2019 12:51	WG1293331
Ethanol	ND		0.100	1	06/09/2019 12:51	WG1293331
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:51	WG1293331
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 12:51	WG1293331
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 12:51	WG1293331
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 12:51	WG1293331
(S) Toluene-d8	98.9		80.0-120		06/09/2019 12:51	WG1293331
(S) 4-Bromofluorobenzene	91.3		77.0-126		06/09/2019 12:51	WG1293331
(S) 1,2-Dichloroethane-d4	108		70.0-130		06/09/2019 12:51	WG1293331

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 G
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 12:10	WG1293392
Toluene	ND		0.00100	1	06/09/2019 12:10	WG1293392
Ethylbenzene	ND		0.00100	1	06/09/2019 12:10	WG1293392
Xylenes, Total	ND	<u>J4</u>	0.00300	1	06/09/2019 12:10	WG1293392
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 12:10	WG1293392
Naphthalene	ND		0.00500	1	06/09/2019 12:10	WG1293392
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:10	WG1293392
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:10	WG1293392
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:10	WG1293392
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:10	WG1293392
Di-isopropyl ether	ND		0.00100	1	06/09/2019 12:10	WG1293392
Ethanol	ND		0.100	1	06/09/2019 12:10	WG1293392
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:10	WG1293392
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 12:10	WG1293392
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 12:10	WG1293392
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 12:10	WG1293392
(S) Toluene-d8	106		80.0-120		06/09/2019 12:10	WG1293392
(S) 4-Bromofluorobenzene	109		77.0-126		06/09/2019 12:10	WG1293392
(S) 1,2-Dichloroethane-d4	110		70.0-130		06/09/2019 12:10	WG1293392

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Collected date/time: 05/31/19 10:45

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 12:31	WG1293392
Toluene	ND		0.00100	1	06/09/2019 12:31	WG1293392
Ethylbenzene	ND		0.00100	1	06/09/2019 12:31	WG1293392
Xylenes, Total	ND	<u>J4</u>	0.00300	1	06/09/2019 12:31	WG1293392
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 12:31	WG1293392
Naphthalene	ND		0.00500	1	06/09/2019 12:31	WG1293392
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:31	WG1293392
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:31	WG1293392
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:31	WG1293392
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:31	WG1293392
Di-isopropyl ether	ND		0.00100	1	06/09/2019 12:31	WG1293392
Ethanol	ND		0.100	1	06/09/2019 12:31	WG1293392
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:31	WG1293392
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 12:31	WG1293392
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 12:31	WG1293392
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 12:31	WG1293392
(S) Toluene-d8	98.1		80.0-120		06/09/2019 12:31	WG1293392
(S) 4-Bromofluorobenzene	102		77.0-126		06/09/2019 12:31	WG1293392
(S) 1,2-Dichloroethane-d4	101		70.0-130		06/09/2019 12:31	WG1293392

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 12:51	WG1293392
Toluene	ND		0.00100	1	06/09/2019 12:51	WG1293392
Ethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293392
Xylenes, Total	ND	<u>J4</u>	0.00300	1	06/09/2019 12:51	WG1293392
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 12:51	WG1293392
Naphthalene	ND		0.00500	1	06/09/2019 12:51	WG1293392
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293392
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293392
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 12:51	WG1293392
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:51	WG1293392
Di-isopropyl ether	ND		0.00100	1	06/09/2019 12:51	WG1293392
Ethanol	ND		0.100	1	06/09/2019 12:51	WG1293392
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 12:51	WG1293392
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 12:51	WG1293392
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 12:51	WG1293392
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 12:51	WG1293392
(S) Toluene-d8	100		80.0-120		06/09/2019 12:51	WG1293392
(S) 4-Bromofluorobenzene	103		77.0-126		06/09/2019 12:51	WG1293392
(S) 1,2-Dichloroethane-d4	103		70.0-130		06/09/2019 12:51	WG1293392

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/31/19 11:25

L1105112

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	06/09/2019 13:12	WG1293392
Toluene	ND		0.00100	1	06/09/2019 13:12	WG1293392
Ethylbenzene	ND		0.00100	1	06/09/2019 13:12	WG1293392
Xylenes, Total	ND	<u>J4</u>	0.00300	1	06/09/2019 13:12	WG1293392
2-Methylnaphthalene	ND		0.0100	1	06/09/2019 13:12	WG1293392
Naphthalene	ND		0.00500	1	06/09/2019 13:12	WG1293392
1,2,4-Trimethylbenzene	ND		0.00100	1	06/09/2019 13:12	WG1293392
1,2,3-Trimethylbenzene	ND		0.00100	1	06/09/2019 13:12	WG1293392
1,3,5-Trimethylbenzene	ND		0.00100	1	06/09/2019 13:12	WG1293392
Methyl tert-butyl ether	ND		0.00100	1	06/09/2019 13:12	WG1293392
Di-isopropyl ether	ND		0.00100	1	06/09/2019 13:12	WG1293392
Ethanol	ND		0.100	1	06/09/2019 13:12	WG1293392
Ethyl tert-butyl ether	ND		0.00100	1	06/09/2019 13:12	WG1293392
t-Amyl Alcohol	ND		0.0500	1	06/09/2019 13:12	WG1293392
tert-Butyl alcohol	ND		0.00500	1	06/09/2019 13:12	WG1293392
tert-Amyl Methyl Ether	ND		0.00100	1	06/09/2019 13:12	WG1293392
(S) Toluene-d8	96.7		80.0-120		06/09/2019 13:12	WG1293392
(S) 4-Bromofluorobenzene	100		77.0-126		06/09/2019 13:12	WG1293392
(S) 1,2-Dichloroethane-d4	98.8		70.0-130		06/09/2019 13:12	WG1293392

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3419951-2 06/09/19 05:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Ethanol	U		0.0420	0.100
Methyl tert-butyl ether	U		0.000367	0.00100
2-Methylnaphthalene	U		0.00330	0.0100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
tert-Amyl Methyl Ether	U		0.000260	0.00100
Ethyl tert-butyl ether	U		0.000270	0.00100
tert-Butyl alcohol	U		0.00240	0.00500
t-Amyl Alcohol	U		0.00490	0.0500
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	85.0			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3419951-1 06/09/19 04:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0250	0.0266	106	70.0-123	
Di-isopropyl ether	0.0250	0.0230	91.9	58.0-138	
Ethylbenzene	0.0250	0.0242	97.0	79.0-123	
Methyl tert-butyl ether	0.0250	0.0267	107	68.0-125	
2-Methylnaphthalene	0.0250	0.00789	31.6	15.0-159	
Naphthalene	0.0250	0.0167	66.7	54.0-135	
Toluene	0.0250	0.0228	91.3	79.0-120	
1,2,3-Trimethylbenzene	0.0250	0.0260	104	77.0-120	
1,2,4-Trimethylbenzene	0.0250	0.0264	106	76.0-121	
1,3,5-Trimethylbenzene	0.0250	0.0243	97.0	76.0-122	
Xylenes, Total	0.0750	0.0745	99.3	79.0-123	
ethanol	1.25	1.31	105	10.0-160	
tert-Butyl alcohol	0.125	0.142	114	27.0-160	
(S) Toluene-d8			92.3	80.0-120	



Laboratory Control Sample (LCS)

(LCS) R3419951-1 06/09/19 04:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 4-Bromofluorobenzene		86.1		77.0-126	
(S) 1,2-Dichloroethane-d4		110		70.0-130	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3419852-2 06/09/19 11:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Di-Isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Ethanol	U		0.0420	0.100
Methyl tert-butyl ether	U		0.000367	0.00100
2-Methylnaphthalene	U		0.00330	0.0100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
tert-Amyl Methyl Ether	U		0.000260	0.00100
Ethyl tert-butyl ether	U		0.000270	0.00100
tert-Butyl alcohol	U		0.00240	0.00500
t-Amyl Alcohol	U		0.00490	0.0500
(S) Toluene-d8	81.4			80.0-120
(S) 4-Bromofluorobenzene	99.3			77.0-126
(S) 1,2-Dichloroethane-d4	111			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3419852-1 06/09/19 10:27

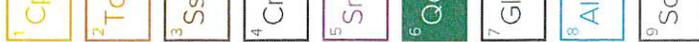
Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0250	0.0239	95.5	70.0-123	
Di-Isopropyl ether	0.0250	0.0200	79.9	58.0-138	
Ethylbenzene	0.0250	0.0235	94.2	79.0-123	
Methyl tert-butyl ether	0.0250	0.0238	95.0	68.0-125	
2-Methylnaphthalene	0.0250	0.0258	103	15.0-159	
Naphthalene	0.0250	0.0301	121	54.0-135	
Toluene	0.0250	0.0200	80.1	79.0-120	
1,2,3-Trimethylbenzene	0.0250	0.0233	93.4	77.0-120	
1,2,4-Trimethylbenzene	0.0250	0.0247	98.8	76.0-121	
1,3,5-Trimethylbenzene	0.0250	0.0257	103	76.0-122	
Xylenes, Total	0.0750	0.0596	79.5	79.0-123	J4
ethanol	1.25	1.16	92.7	10.0-160	
tert-Butyl alcohol	0.125	0.135	108	27.0-160	
(S) Toluene-d8			91.3	80.0-120	



Laboratory Control Sample (LCS)

(LCS) R3419852-1 06/09/19 10:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 4-Bromofluorobenzene		109	109	77.0-126	
(S) 1,2-Dichloroethane-d4		103	103	70.0-130	



Method Blank (MB)

(MB) R3420028-2 06/11/19 12:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000384	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	93.5			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3420028-1 06/11/19 11:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.0250	0.0242	96.8	79.0-123	
Naphthalene	0.0250	0.0163	65.3	54.0-135	
Toluene	0.0250	0.0225	90.1	79.0-120	
1,2,3-Trimethylbenzene	0.0250	0.0263	105	77.0-120	
1,2,4-Trimethylbenzene	0.0250	0.0273	109	76.0-121	
1,3,5-Trimethylbenzene	0.0250	0.0253	101	76.0-122	
Xylenes, Total	0.0750	0.0729	97.2	79.0-123	
(S) Toluene-d8			92.3	80.0-120	
(S) 4-Bromofluorobenzene			88.0	77.0-126	
(S) 1,2-Dichloroethane-d4			110	70.0-130	



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J4	The associated batch QC was outside the established quality control range for accuracy.
----	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
 * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1,6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

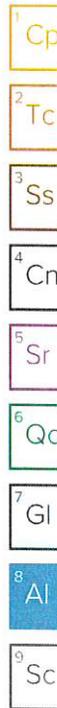
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Wood E & I Solutions -MI

41 Hughes Drive
Traverse City, MI 49696

Accounts Payable
41 Hughes Drive
Traverse City, MI 49696

Report to:
Robert J Lint

Email To: robert.lint@woodpic.com

Project

Description: **Schmuckal Spring Lake**

Phone: **231-922-9050**
Fax:

Client Project #
3310160019

Collected by (print):
OSNIPER CRUTCHERS

City/State Collected:
WOODGETCMI-SSL

Collected by (signature):
OSNIPER CRUTCHERS

Quote #

Immediately Packed on Ice N Y X

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (lab only)
MW-1	Grab	GW		5-30-19	913	3		-01
MW-4S	Grab	GW		5-30-19	1004	3		02
MW-2	Grab	GW		5-30-19	1431	3		03
MW-4d	Grab	GW		5-31-19	656	3		04
MW-16	Grab	GW		5-31-19	813	3		05
MW-15	Grab	GW		5-31-19	738	3		06
VP-4(70)	Grab	GW	70	5-30-19	-	3		07
VP-4(60)	Grab	GW	60	5-30-19	-	3		08
VP-5(70)	Grab	GW	70	5-30-19	1220	3		09
VP-5(60)	Grab	GW	60	5-30-19	1320	3		10

Remarks:

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste Water
 DW - Drinking Water
 OT - Other

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **4882 863 5020**

Relinquished by: (Signature)
OSNIPER CRUTCHERS
 Date: **6-3-19** Time: **1600**

Received by: (Signature)
Fedex
 Date: _____ Time: _____

Received for lab by: (Signature)
[Signature]
 Date: **6/4/19** Time: **0845**

Relinquished by: (Signature)
 Date: _____ Time: _____

Trip Blank Received: Yes No
 HCL Meoh TBR

Temp: **1.5-2-13.5** °C Bottles Received: **72VB**
 Date: **6/4/19** Time: **0845**

Condition: **NCF / OK**



12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859

L# **L116512**
J056

Acctnum: **WOODEITCMI**
 Template: **T150446**
 Prelogin: **P709364**
 TSR: **341 John Hawkins**
 PB: **51419MB**
 Shipped Via: **FedEx Ground**

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N

If preservation required by Login: Date/Time
 Hold: _____
 Condition: **NCF / OK**

Wood E & I Solutions - MI

41 Hughes Drive
Traverse City, MI 49696

Report to:
Robert J Lint

Email To: robert.lint@woodpic.com

Project

Description: **Schmuckal Spring Lake**

Phone: **231-922-9050**

Fax:

Client Project #
3310160019

Site/Facility ID #

City/State
Collected:

Lab Project #
WOODEITCMI-SSL

P.O. #

Quote #

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Date Results Needed

No. of

Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Pres Chk
VP-5(50)	Grab	GW	50	5-30-19	1345	3	X
VP-5(40)	Grab	GW	40	5-30-19	1400	3	X
VP-6(70)	Grab	GW	70	5-30-19	1541	3	X
VP-6(60)	Grab	GW	60	5-30-19	1636	3	X
VP-6(50)	Grab	GW	50	5-30-19	1654	3	X
VP-6(40)	Grab	GW	40	5-30-19	1709	3	X
VP-7(70)	Grab	GW	70	5-31-19	900	3	X
VP-7(60)	Grab	GW	60	5-31-19	930	3	X
VP-7(50)	Grab	GW	50	5-31-19	948	3	X
VP-7(40)	Grab	GW	40	5-31-19	1000	3	X

Remarks:

* Matrix: AIR - Air F - Filter
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Samples returned via:
 UPS FedEx Courier

Date: 6-3-19

Time: 1600

Date:

Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Time: 0845

Date: 6/4/19

Temp: 15-2:1355

Bottles Received: 72

Temp: °C

°C

Temp: 15-2:1355

Bottles Received: 72

Wood E & I Solutions - MI

41 Hughes Drive
Traverse City, MI 49696

Accounts Payable
41 Hughes Drive
Traverse City, MI 49696

Email To: robert.lint@woodpic.com

Report to:
Robert J Lint

Project
Description: **Schmuckal Spring Lake**

Phone: **231-922-9050**
Fax:

City/State
Collected:

Lab Project #
WOODEITCMI-SSL

P.O. #

Quote #

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Collected by (print): **Oshlee Char Ais**
 Collected by (signature):
 Immediately Packed on Ice N Y

Date Results Needed

No. of Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

VP-8(L70)
VP-8(L60)
VP-8(L50)
VP-8(L40)

Grab
Grab
Grab
Grab

GW
GW
GW
GW

70
60
50
40

5-31-19
5-31-19
5-31-19
5-31-19

1020
1045
1115
1125

3
3
3
3

X
X
X
X

W82600XYUGMI 40mlamb-HCI

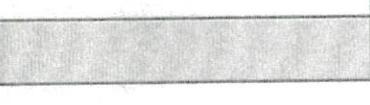
Remarks
Sample # (lab only)
-21
22
23
24

Shipped Via: **FedEx Ground**

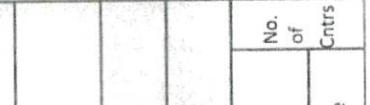
TSR: **341 John Hawkins**
PB: **51419MD**

Prelogin: **P709364**
Template: **T150446**
Acctnum: **WOODEITCMI**

L# **L1105112**
Table #



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Fax: 615-758-5859



Face Analytical
National Center for Testing & Innovation

Chain of Custody

Remarks:

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste Water
 DW - Drinking Water
 OT - Other

pH _____ Temp _____
 Flow _____ Other _____

Tracking # **4882 8031 5020**

Received by: (Signature) **FedEx**

Received by: (Signature)

Received for lab by: (Signature) *[Signature]*

Samples returned via:
 UPS FedEx Courier

Date: **6-3-19** Time: **1600**

Date: _____ Time: _____

Date: _____ Time: _____

Relinquished by: (Signature) *[Signature]*
 Relinquished by: (Signature)
 Relinquished by: (Signature)

Trip Blank Received: **Yes/No**
 Yes No
 HCL/MeOH TBR

Temp: **15.2=13.5** °C Bottles Received: **72**

Date: **6/4/19** Time: **0845**

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature) *[Signature]*

Date: _____ Time: _____

Date: _____ Time: _____

Date: _____ Time: _____

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero HeadSpace: Y N
 Preservation Correct/Checked: Y N
RAD SCREEN: 0.5 MP/100

If preservation required by Login: Date/Time
 Hold:
 Condition: **NCF / OK**

ATTACHMENT 2

BORING LOGS



SOIL BORING VP-05

PROJECT NAME Spring Lake Shell **PROJECT NUMBER** 3310160019
CLIENT NAME Schmickal Oil Company
DATE STARTED 5/30/2019 **DATE Completed** 5/30/2019 **APPARENT DEPTH TO WATER** 22
DRILLING CONTRACTOR Shepler **TOTAL DEPTH** 70
DRILLING METHOD Geoprobe **GROUND ELEVATION** _____
LOGGED BY AKC **CHECKED BY** RJL
Notes _____

WOOD TC LOG SCHMUCKAL SPRING LAKE.GPJ MACTEC TC WELL LOG STANDARD.GDT 6/12/19

DEPTH (ft)	SAMPLE TYPE	LAB SAMPLE	GRAPHIC LOG	USCS Class	MATERIAL DESCRIPTION	BOREHOLE DIAGRAM	Elevation (ft)
0					Soils not logged		
10							
20							
30							
40	VAS	VP-05 (40)		SW			
50	VAS	VP-05 (50)					
60	VAS	VP-05 (60)					
70	VAS	VP-05 (70)					
					70.0		
Bottom of hole at 70.0 feet.							

← natural collapse

VAS - Vertical Aquifer Sample



SOIL BORING VP-06

PROJECT NAME Spring Lake Shell **PROJECT NUMBER** 3310160019
CLIENT NAME Schmickal Oil Company
DATE STARTED 5/30/2019 **DATE Completed** 5/30/2019 **APPARENT DEPTH TO WATER** 22
DRILLING CONTRACTOR Shepler **TOTAL DEPTH** 70
DRILLING METHOD Geoprobe **GROUND ELEVATION** _____
LOGGED BY AKC **CHECKED BY** RJL
Notes _____

WOOD TC LOG SCHMUCKAL SPRING LAKE.GPJ MACTEC TC WELL LOG STANDARD.GDT 6/12/19

DEPTH (ft)	SAMPLE TYPE	LAB SAMPLE	GRAPHIC LOG	USCS Class	MATERIAL DESCRIPTION	BOREHOLE DIAGRAM	Elevation (ft)
0					Soils not logged		
10							
20							
30							
40	VAS	VP-06 (40)		SW			
50	VAS	VP-06 (50)					
60	VAS	VP-06 (60)					
70	VAS	VP-06 (70)					
					70.0		
Bottom of hole at 70.0 feet.							

← natural collapse

VAS - Vertical Aquifer Sample



SOIL BORING VP-07

PROJECT NAME Spring Lake Shell **PROJECT NUMBER** 3310160019
CLIENT NAME Schmickal Oil Company
DATE STARTED 5/31/2019 **DATE Completed** 5/31/2019 **APPARENT DEPTH TO WATER** 22
DRILLING CONTRACTOR Shepler **TOTAL DEPTH** 70
DRILLING METHOD Geoprobe **GROUND ELEVATION** _____
LOGGED BY AKC **CHECKED BY** RJL
Notes _____

DEPTH (ft)	SAMPLE TYPE	LAB SAMPLE	GRAPHIC LOG	USCS Class	MATERIAL DESCRIPTION	BOREHOLE DIAGRAM	Elevation (ft)
0					Soils not logged		
10							
20							
30							
40	VAS	VP-07 (40)		SW			
50	VAS	VP-07 (50)					
60	VAS	VP-07 (60)					
70	VAS	VP-07 (70)					
					70.0		
Bottom of hole at 70.0 feet.							

WOOD TC LOG SCHMUCKAL SPRING LAKE.GPJ MACTEC TC WELL LOG STANDARD.GDT 6/12/19

VAS - Vertical Aquifer Sample



SOIL BORING VP-08

PROJECT NAME Spring Lake Shell **PROJECT NUMBER** 3310160019
CLIENT NAME Schmickal Oil Company
DATE STARTED 5/31/2019 **DATE Completed** 5/31/2019 **APPARENT DEPTH TO WATER** 22
DRILLING CONTRACTOR Shepler **TOTAL DEPTH** 70
DRILLING METHOD Geoprobe **GROUND ELEVATION** _____
LOGGED BY AKC **CHECKED BY** RJL
Notes _____

WOOD TC LOG SCHMUCKAL SPRING LAKE.GPJ MACTEC TC WELL LOG STANDARD.GDT 6/12/19

DEPTH (ft)	SAMPLE TYPE	LAB SAMPLE	GRAPHIC LOG	USCS Class	MATERIAL DESCRIPTION	BOREHOLE DIAGRAM	Elevation (ft)
0					Soils not logged		
10							
20							
30							
40	VAS	VP-08 (40)		SW			
50	VAS	VP-08 (50)					
60	VAS	VP-08 (60)					
70	VAS	VP-08 (70)					
					70.0		
Bottom of hole at 70.0 feet.							

VAS - Vertical Aquifer Sample

WEST SHORE INSPECTIONS, LLC

2644 15th Street
Hopkins, MI 49328
Cell 616 477-4940
Bob@wsillc.biz

October 8, 2019

Village of Spring Lake
102 West Savidge Street
Spring Lake, MI 49456

Dear Village of Spring Lake:

I would like to thank you for the opportunity you've given me to serve as the inspector for your jurisdiction.

As of March 1, 2019, I will be raising the cost of my Plan Review fees to \$75 Hour, with a minimum of one hour on all Residential and Commercial Plan Reviews.

Thank you again for the opportunity to serve your township and if you have any questions please let me know.

Sincerely,

Bob Modreske
West Shore Inspections, LLC



**Event Space at Tanglefoot
Renovations**

Opinion of Probable Cost

October 8, 2019

DESCRIPTION	COSTS	
	LOW	HIGH
Contract Square Footage	7,500	
Construction Costs - Event Center	\$ 1,635,957.00	\$ 1,881,351.00
Construction Costs - Site Development (Site Prep/Parking/Site Improvements)	\$ 531,199.00	\$ 610,879.00
General Conditions/General Requirements	\$ 260,059.00	\$ 299,068.00
General Contractor/CM Fee	\$ 97,522.00	\$ 112,150.00
Commissioning	\$ -	\$ -
Plan Review and Permits	\$ 32,507.00	\$ 37,383.00
Testing and Special Inspections	\$ 21,672.00	\$ 24,922.00
Subtotal	\$ 2,578,916.00	\$ 2,965,753.00
Cost Escalation - Beyond Current Calendar Year	\$ -	\$ -
Contingency - Design	\$ 257,892.00	\$ 296,575.00
Contingency - Construction	\$ 128,946.00	\$ 148,288.00
Construction Subtotal	\$ 2,965,754.00	\$ 3,410,616.00
Contracts held by the Owner:		
Consultant(s)	\$ -	\$ -
Special Inspections	\$ -	\$ -
Security/Access Control Systems	\$ -	\$ -
Audio/Visual Systems	\$ -	\$ -
Furniture (Including Sales Tax, Delivery and Installation)	\$ -	\$ -
A/E Design Services and Fees	\$ 237,261.00	\$ 272,850.00
	\$ -	\$ -
PROJECT TOTAL	\$ 3,203,015.00	\$ 3,683,466.00
Square Foot Cost	\$ 427.07	\$ 491.13

** Permits Fees are projected costs upon verification from the local Building Department

The estimated Costs are preliminary and based on conceptual programming. A thorough investigation and a complete design will be necessary to determine the exact scope of work and associated costs.

Clarifications/Qualifications

The estimate includes both a Construction Contingency and a Design Contingency. The Design Contingency is to address possible additional costs that have not yet been fully designed, or detailed

The construction costs presented include construction costs and "soft costs" i.e. General Conditions, Profit, and Permit Fees.

The estimate excludes demolition, removal, or disposal of hazardous or contaminated materials.

The estimate assumes work to take place during "normal" daylight working hours, excluding weekends and holidays

General Conditions/General Requirements

General Conditions/General Requirements are the costs incurred during a project that typically involve the daily oversight and supervision of Trade Contractors, Material Deliveries and Jobsite Safety and Security. These are typically the costs of managing and running the construction project and include:

- Full-time, on-site Supervision during Construction (assumed a 30 week schedule)
- Project Manager time
- Administrative Assistant during construction - issuing contracts, purchase orders, etc...
- Plan Reproduction Costs - Blueprints
- Travel expenses - fuel/mileage

Progressive AE has prepared the Cost Estimate for this project, and we request that it be treated as "Confidential" and not copied or distributed for any reason other than evaluation for this project.

This document has been prepared by Progressive AE as an Instrument of Service, and Progressive AE shall retain all common law, statutory and other reserved rights, including the Copyright thereto.



Project Name	Event Space at Tanglefoot	Date Prepared	October 8, 2019
Project Number	84170005		
Project Location	Spring Lake, Michigan	Date Revised	
Estimate Level	Conceptual Design		
Project Manager	Tiffany Kline		
Estimator	D. Bergeron		
Square Footage	7,500	overall area	
Building Structure	7,500	sf	15,300
			Parking Lot

Opinion of Probable Costs

Items	Type of Work	Quantity	Units	Unit Cost	Amount	Division Costs
Division 02 - Demolition / Existing Conditions						
02-100	Existing RV Site Demo (both Gravel and Paved)	2,417	sy	\$ 9.60	\$ 23,200.00	\$ 115,850.00
02-100	Remove Existing Power Supplies (for RVs & Office)	1,200	lf	\$ 11.20	\$ 13,440.00	
02 41 13.17:5100	Remove and Dispose S. Division St.	456	sy	\$ 6.30	\$ 2,870.00	
02 41 13.30:4000	Remove and Dispose of Paved Picnic Table Areas	58	sy	\$ 6.05	\$ 353.00	
02 41 13.30:4000	Demo and Remove Existing Sidewalk	201	sy	\$ 6.05	\$ 1,219.00	
02 41 13.17:5100	Demo and Remove Interior Park Roads	782	sy	\$ 6.30	\$ 4,928.00	
02 41 16.13:0700	Existing RV Office Demo (Wood Structure)	18,800	cf	\$ 0.39	\$ 7,332.00	
02 41 13.23:2900	Remove Existing Sewage Lines	1,200	lf	\$ 24.17	\$ 29,004.00	
02 41 13.23:2900	Remove Existing Water Lines	1,200	lf	\$ 24.17	\$ 29,004.00	
02-100	Existing Conditions Demo Allowance	1	ls	\$ 2,500.00	\$ 2,500.00	
02-100	Disposal of Electrical, Water and Sewage Lines (Haul off site)	1	ls	\$ 2,000.00	\$ 2,000.00	
Division 03 - Concrete						
03-100	Concrete - Footings and Foundation (around new building, elevator,	93.0	cy	\$ 450.00	\$ 41,867.00	\$ 68,117.00
03-100	Floor Slab - New 4" Floor (around new building)	7,500	sf	\$ 3.50	\$ 26,250.00	
Division 04 - Masonry						
04-100	Block Walls - Elevator Shaft 5' x 6' - 20ft tall	600	vsf	\$ 11.50	\$ 6,900.00	\$ 6,900.00
Division 05 - Metals						
05-200	Structural Steel					\$ 405,700.00
05-200	Structural Steel - Beams, Coulmns	10.00	tons	\$ 2,800.00	\$ 28,000.00	
05-200	Steel Deck (Lookout Tower - Platform) 40ft x 40ft	1,600	sf	\$ 10.42	\$ 16,672.00	
05-200	New Picnic Shelter (Canopy) 15 x 30 (Steel)	450	sf	\$ 45.00	\$ 20,250.00	
05-200	Custom Pavilion (Event Space) 30 x 250					
05-200	LB Metal Stud Framing (Brick Veneer Exterior) - 12ft tall (50% of wall)	3,360	vsf	\$ 38.00	\$ 127,680.00	
05-200	LB Metal Stud Framing (Cement Board) - 12ft tall (50% of wall)	3,360	vsf	\$ 26.00	\$ 87,360.00	
05-200	Architectural Steel Trusses (Powdercoated) (10'-2" spacing)	25	ea	\$ 1,250.00	\$ 30,738.00	
05-200	Perlins (Powdercoated)	3,000	lf	\$ 10.00	\$ 30,000.00	
05-200	Miscellaneous/Decorative Steel					
05-200	Steel Stair Structure - Decorative	1	ls	\$ 65,000.00	\$ 65,000.00	
Division 06 - Wood, Plastic and Composites						
06-100	Rough Carpentry - T&M	7,500	sf	\$ 1.75	\$ 13,125.00	\$ 56,715.00
06-100	Finish Carpentry - T&M	7,500	sf	\$ 5.00	\$ 37,500.00	
06-100	Interior Stud Walls (10ft tall)	40	lf	\$ 40.25	\$ 1,610.00	
06-100	Millwork - Casing, Trim and Molding	1,120	lf	\$ 4.00	\$ 4,480.00	
Division 07 - Thermal and Moisture Protection						
07-200	Standing Seam Roof (times 10% for slope)	8,250	sf	\$ 7.70	\$ 63,525.00	\$ 143,658.00
07-200	Roof Underlayment (Felt) (times 10% for slope)	83	sq	\$ 16.30	\$ 1,345.00	
07-300	Vapor Barrier (New 4" Floor)	697	sq	\$ 21.00	\$ 14,632.00	
07-300	Self-Adhered Membrane (times 10% for slope)	83	sq	\$ 179.00	\$ 14,768.00	
07-300	Sheathing (times 10% for slope)	8,250	sf	\$ 1.65	\$ 13,613.00	
07-300	3" Rigid Insulation (times 10% for slope)	8,250	sf	\$ 2.62	\$ 21,615.00	
07-900	Caulking/Sealant - Roof (2 beads), Base (single) & Windows (2 beads)	2,832	lf	\$ 5.00	\$ 14,160.00	
Division 08 - Openings						
08-100	Doors and Hardware					\$ 211,000.00
08-100	Coiling Doors and Grilles (10ft x 10ft, spaced 20ft apart)	18	ea	\$ 5,700.00	\$ 102,600.00	
08-100	Interior Single Door and Hardware (at Bathrooms & Mechanical Room)	3	ea	\$ 2,100.00	\$ 6,300.00	
08-100	Interior Double Door and Hardware (at Kitchen) Eliason Type	1	pair	\$ 4,200.00	\$ 4,200.00	
08-100	Automatic Openers - 2 Locations Only	1	ea	\$ 7,500.00	\$ 7,500.00	
08-200	Glass and Glazing					
08-200	Glass and Glazing - Storefront System (Exterior Glass)	1,280	vsf	\$ 40.00	\$ 51,200.00	
08-200	Glass and Glazing - Ext. Double Entry Door (Double Entry at Vestible)	7	pair	\$ 5,600.00	\$ 39,200.00	
Division 09 - Finishes						
09-100	Metal Studs and Drywall					\$ 74,150.00
09-100	Tongue and Groove Ceiling Panels	8,250	sf	\$ 2.50	\$ 20,625.00	
09-200	Acoustic Ceilings and Panels					
09-300	Flooring and Tile					
09-300	Flooring - Floor Cleaning and Prep	7,500	sf	\$ 0.55	\$ 4,125.00	
09-300	Flooring - Polished Concrete	7,500	sf	\$ 2.50	\$ 18,750.00	
09-300	Flooring - Porcelain Tile and Base (Bathroom & Kitchen)	1,000	sf	\$ 15.00	\$ 15,000.00	
09-300	Flooring - Rubber Cove Base (Bathrom & Kitchen)	260	lf	\$ 2.50	\$ 650.00	
09-400	Painting					
09-400	General Painting	7,500	sf	\$ 2.00	\$ 15,000.00	
Division 10 - Specialties						
10-100	Signage					\$ 14,538.00
10-100	Interior Signage	7,500	sf	\$ 0.30	\$ 2,250.00	
10-200	Restroom Accessories and Partitions					
10-200	Restroom Accessories					
10-200	Mirrors - 24 x 36	4	ea	\$ 158.32	\$ 633.00	
10-200	Toilet Tissue Dispenser - B-2740 Dual Roll-Surface	5	ea	\$ 47.80	\$ 239.00	
10-200	Paper Towel Dispenser - B-3942	6	ea	\$ 476.73	\$ 2,860.00	
10-200	Grab Bar - 36" B5806 x 36	5	ea	\$ 79.00	\$ 395.00	
10-200	Seat Cover Dispenser - B-3013	5	ea	\$ 245.71	\$ 1,229.00	

10-200	Electric Hand Dryer - B-7120	4	ea	\$	432.56	\$	1,730.00	
10-200	Soap Dispenser - B-4112	6	ea	\$	103.62	\$	622.00	
10-200	Koala Changing Station - KB101	2	ea	\$	339.77	\$	680.00	
10-200	Restroom Partitions - Stall	5	ea	\$	750.00	\$	3,750.00	
10-200	Restroom Partitions - Urinal Blind	1	ea	\$	150.00	\$	150.00	
Division 11 - Equipment								\$ 36,800.00
11-100	Appliances - Prep Kitchen	1	allow	\$	20,000.00	\$	20,000.00	
11-200	Equipment	1	allow	\$	15,000.00	\$	15,000.00	
11-200	Countertop (Pass Through)	40	lf	\$	45.00	\$	1,800.00	
Division 12 - Furnishings								\$ 30,000.00
12-200	Cabinets - Kitchen	40	lf	\$	450.00	\$	18,000.00	
12-200	Clock Display	2	ls	\$	6,000.00	\$	12,000.00	
Division 13 - Special Construction								\$ -
Division 14 - Elevators								\$ 60,000.00
14-100	New Elevator - Lula Lift	1	ea	\$	60,000.00	\$	60,000.00	
Division 21 - Fire Suppression								\$ 22,500.00
21-100	Fire Suppression - New System	7,500	sf	\$	3.00	\$	22,500.00	
Division 22 - Plumbing								\$ 40,340.00
22-100	Plumbing - Drops (underground)	6	ea	\$	3,500.00	\$	21,000.00	
22-100	Water Closets/Urinals with Flush Valves	6	ea	\$	1,100.00	\$	6,600.00	
22-100	Hand Sinks and Faucets	4	ea	\$	750.00	\$	3,000.00	
22-100	Kitchen Sinks and Faucets	2	ea	\$	995.00	\$	1,990.00	
22-100	Floor Drains/Sinks	6	ea	\$	350.00	\$	2,100.00	
22-100	Water Heater	1	ea	\$	3,850.00	\$	3,850.00	
22-100	Hi-Lo Water Cooler	1	ea	\$	1,800.00	\$	1,800.00	
Division 23 - Heating, Ventilation and Air-Conditioning								\$ 190,325.00
23-100	HVAC System - New	38	tons	\$	2,500.00	\$	93,750.00	
23-100	HVAC - Diffusers w/Ductwork	16	ea	\$	2,000.00	\$	32,000.00	
23-100	HVAC - Exhaust Fans - Restrooms & Kitchen	8	ea	\$	1,500.00	\$	12,000.00	
23-100	HVAC - Natural Gas Boilers (assumed 165 MBH required)	1	ea	\$	14,900.00	\$	14,900.00	
23-100	HVAC - Runtal Heaters (Located at 12ft curtain wall areas)	16	ea	\$	925.00	\$	14,800.00	
23-100	HVAC - Controls	7,500	sf	\$	2.50	\$	18,750.00	
23-100	HVAC - Test and Balance	7,500	sf	\$	0.55	\$	4,125.00	
Division 26 - Electrical								\$ 184,980.00
26-100	Electrical - Electrical Drops/Connections w/conduit	22	ea	\$	340.00	\$	7,480.00	
26-100	Electrical - 300Amp Distribution Panel	1	ea	\$	8,000.00	\$	8,000.00	
26-100	Electrical - In-floor Receptacles	26	ea	\$	750.00	\$	19,500.00	
26-100	Electrical - Electrical Wiring/Fixtures (Event Space and Farmers Market)	7,500	sf	\$	10.00	\$	75,000.00	
26-100	Electrical - Lighting (Event Space and Farmers Market)	7,500	sf	\$	10.00	\$	75,000.00	
Division 27 - Communications Wiring								\$ 11,250.00
27-100	Telephone/Data - Rough-in Only	7,500	sf	\$	1.50	\$	11,250.00	
Division 28 - Electronic Safety and Security								\$ 15,000.00
28-100	Fire Alarm System	7,500	sf	\$	2.00	\$	15,000.00	
Division 31 - Earthwork								\$ 66,567.00
31-100	Clearing & Grubbing (cut & clip existing trees)	1.75	acres	\$	5,000.00	\$	8,750.00	
31-100	Selective Tree Removal & Dump	12	each	\$	900.00	\$	10,800.00	
31-200	Excavate and Haul-out Earth for (New Parking Lot & New Event Center)	595.00	cy	\$	16.00	\$	9,520.00	
31-200	Footing Excavation and Backfill	560	lf	\$	15.00	\$	8,400.00	
31-300	Dewatering	93.04	cy	\$	75.00	\$	6,978.00	
31-400	Gravel Base - Under Slab (1.8 tons/cy)	139	tons	\$	18.50	\$	2,569.00	
31-400	Gravel Base - Parking Lot (21AA)	283	tons	\$	18.30	\$	5,185.00	
31-400	Grading - Rough (Parking Lot)	15,300	sf	\$	0.20	\$	3,060.00	
31-400	Grading - Finish (Site minus Building)	66,500	sf	\$	0.17	\$	11,305.00	
Equipment/Operator								
Division 32 - Exterior Improvements								\$ 376,740.00
32-100	6" Asphaltic Concrete Paving (Parking Lot, under pavers)	20,450	sf	\$	4.00	\$	81,800.00	
32-100	Lot Striping - Per Stall	54	ea	\$	75.00	\$	4,050.00	
32-100	Site Painting - Allowance	1	allow	\$	1,000.00	\$	1,000.00	
Site Concrete								
32-200	Concrete Paving - 6" 4000psi (Fire Circle)	800	sf	\$	4.00	\$	3,200.00	
32-200	Concrete Curb (around new parking lot)	875	lf	\$	15.00	\$	13,125.00	
32 06 10.10.0300	Concrete Sidewalks	4,960	sf	\$	5.25	\$	26,040.00	
32-200	Promenade Brick "Walk" Pavers	380	sqm	\$	40.23	\$	15,287.00	
Paving Specialties								
Athletic and Recreational Surfaces								
Site Improvements								
32-300	Seat Wall (Around Fire Circle)	1	ea	\$	2,080.00	\$	2,080.00	
32-300	Fire Circle	1	ea	\$	4,000.00	\$	4,000.00	
32-300	Rectangular Tables w/Umbrellas	10	ea	\$	7,000.00	\$	70,000.00	
32-300	Square Tables w/Umbrellas	8	ea	\$	6,000.00	\$	48,000.00	
32-300	Picnic Tables	2	ea	\$	2,310.00	\$	4,620.00	
32-300	Trash Receptacles (Sidewalk & Event Space)	7	ea	\$	1,500.00	\$	10,500.00	
32-300	Fence - 4' tall Wrought Iron (Fire Circle & Seating Area) with Stone Pillers	350	lf	\$	53.50	\$	18,725.00	
32-300	Bike Loops	6	ea	\$	250.00	\$	1,500.00	
32-300	Moveable Planter Boxes	10	ea	\$	1,500.00	\$	15,000.00	
32-300	Concrete Wall - 3' H. Concrete (incl. footing) (2' below grade)	350	lf	\$	26.75	\$	9,363.00	
32-300	Entry Sign	2	ea	\$	7,500.00	\$	15,000.00	
Landscaping								
32-300	Seed and Fertilize	33,000	sf	\$	0.65	\$	21,450.00	
32-300	Deciduous Trees	16	ea	\$	750.00	\$	12,000.00	
Division 33 - Utilities (Included in Division 32)								\$ 94,448.00
33-100	Water Line - 2" domestic Ductile Iron	240	lf	\$	31.00	\$	7,440.00	
Sanitary Sewer								
33-200	6" PVC SDR 35 Sewer Line - 5' Deep (from the road)	240	lf	\$	28.00	\$	6,720.00	

	Storm Sewer								
33-300	18" HDPE Storm Pipe (from the road)	376	lf	\$	38.00	\$	14,288.00		
33-300	Catch Basins - 4' dia.	6	ea	\$	2,800.00	\$	16,800.00		
	Natural Gas Distribution								
33-400	Gas Line - 1" SDR 11 (from the road)	250	lf	\$	24.00	\$	6,000.00		
	Site Lighting and Wiring								
33-500	Site Lighting - Pole Lights w/Base	12	ea	\$	3,600.00	\$	43,200.00		
Division 35 - Waterway & Marine								\$	-
Sub Total								<u>\$ 2,225,578.00</u>	\$ 296.74
Site Work/Logistics/Cleanup/Protection								2.5% \$ 55,639.00	
								<u>\$ 2,281,217.00</u>	\$ 304.16
General Conditions/General Requirements								12.0% \$ 273,746.00	
General Contractor/CM Fee								4.5% \$ 102,655.00	
Plan Review and Permits								1.5% \$ 34,218.00	
Material Testing								1.0% \$ 22,812.00	
								<u>\$ 2,714,648.00</u>	\$ 361.95
Contingency - Design								10% \$ 271,465.00	
Contingency - Construction								5% \$ 135,732.00	
Sub Total								<u>\$ 3,121,845.00</u>	\$ 416.25
Owner Held Contracts									
A/E Design Fees & Services								8.0% \$ 249,748.00	
								<u>\$ 3,371,593.00</u>	\$ 449.55



Board and Commission Application

OCT 14 2019

Received



Name: Daniel N. Grable Telephone: 616-820-5993

Address: 104 E. Tolford St. Apt. 2 Date: 10-14-2019

Email Address: grabledaniel@yahoo.com

Years as a Village Resident: 58 yrs Occupation: retired and on disability

Background/Interests: I have a interest in local history. Anniversary Committee for S.L. Christian Reformed Church. I am involved in the Sons of Union Veterans of the Civil War. I am interested in my family genealogy member of Heritage Festival Committee 2009-10 vice president and historian. 148501 Jan for my church in Muskegon on religious program for the anniv. of city of Muskegon (1898-)

- Please check the board(s) or commission(s) that you would be willing to serve on:
Village Council
Planning Commission
Zoning Board of Appeals
Parks & Recreation/Tree Board
Friends of Barber School
Historic Commission
Development Area Citizens Council
Spring Lake Lake Board
Beautification Committee
DDA
Library Liaison
Lloyd's Bayou

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

[X] Yes [] No [] Seasonally - from to

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

My interest in the history of Spring Lake the public school and the preservation of historical buildings and locations. Also the history of local people. I have interest in beads historians of heritage festival historian/VP Muskegon church

Concerns for the Village; if any:

The Village of Spring Lake assures that no person shall, on the grounds of race, color, national origin, or sex be excluded from or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The Village of Spring Lake further assures every effort will be made to ensure nondiscrimination in all of its committees, programs and activities, regardless of the funding source.

1 Please attach a resume.



Board and Commission Application

Village of Spring Lake

102 W. Savidge, Spring Lake, MI 49456

P: (616) 842-1393 F: (616) 847-1393

Email: christine@springlakevillage.org

OCT 29 2019

Received

Name: MARK MILLER Date: 10 18 19

Address: 207 E SAVIDGE Home Phone: ()

Email Address: marksattic@charter.net Cell Phone: (616) 402 3489

Years as a Village Resident: 60 Occupation¹: SALES/ACCOUNT MANAGEMENT

Background/Interests: _____

Please check the board(s) or commission(s) that you would be willing to serve on:

- | | | |
|--|---|---|
| <input type="checkbox"/> Village Council | <input type="checkbox"/> Lloyd's Bayou Lake Board | <input type="checkbox"/> Beautification Volunteer |
| <input type="checkbox"/> Planning Commission (3) | <input checked="" type="checkbox"/> Historic Commission | <input type="checkbox"/> DDA (4) |
| <input type="checkbox"/> Zoning Board of Appeals (2) | <input type="checkbox"/> Library Liaison (1) | <input type="checkbox"/> |
| <input type="checkbox"/> Parks & Recreation/Tree Board (1) | <input type="checkbox"/> Spring Lake Lake Board | <input type="checkbox"/> |

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

Yes No Seasonally – from _____ to _____

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

TO CONTINUE ORGANIZING THE WOODEN BOAT SHOW, TO CONTINUE TO CHAIR
THE HISTORIC COMMISSION, WINSOR McCAY PARK

Concerns for the Village; if any:

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¹ Please attach a resume.



Board and Commission Application

OCT 21 2019

Received

Name: William F Young Telephone: 517-712-8555

Address: 209 Liberty St, Spring Lake Date: 10/21/19

Email Address: billyoung2582@gmail.com

Years as a Village Resident: 2+ Occupation: retired

Background/Interests: served 33 years as shareholder/attorney of medium size law firm. Interests include family, hiking, camping, cooking, reading

Please check the board(s) or commission(s) that you would be willing to serve on:

- Village Council
- Friends of Barber School
- Beautification Committee
- Planning Commission
- Historic Commission
- DDA
- Zoning Board of Appeals
- Development Area Citizens Council
- Library Liaison
- Parks & Recreation/Tree Board
- Spring Lake Lake Board
- Lloyd's Bayou

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

Yes No Seasonally - from _____ to _____

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

I have long sought to give back to my community. I am interested in history and, as a parent/grandparent I want to ensure a future that they can enjoy.

Concerns for the Village; if any: retaining family friendly nature of the community; balance development and community pride to prosper while retaining character of my chosen place to live.

The Village of Spring Lake assures that no person shall, on the grounds of race, color, national origin, or sex be excluded from or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The Village of Spring Lake further assures every effort will be made to ensure nondiscrimination in all of its committees, programs and activities, regardless of the funding source.

¹ Please attach a resume.

William F. Young

209 Liberty St, Spring Lake, MI 49456
(517) 712-8555 | billyoung2582@gmail.com

Education

University of Michigan Law School

May 1983

- Juris Doctor
- Graduated *cum laude*

Michigan State University

May 1978

- Bachelor of Science Social Science
 - Graduated with honors
-

Experience

Attorney - White, Schneider, Young & Chiodini, P.C. (Okemos, MI)

Feb 1988 - Dec 2016

- Represented unions, teachers and other clients in state and federal courts and administrative agencies
- Served as counsel in numerous labor arbitration hearings
- Provided guidance and advice to employers and employees in labor and employment matters
- Appeared in all Michigan courts, both federal district courts and the 6th Circuit Court of Appeals
- Elected shareholder in 1989 in 15-person law firm
- As shareholder, served as treasurer and human resource/benefits manager for most of 20 years
- Served four years as firm president
- Managed law firm building corporation for many years, building officer, human resources and benefits
- Mentored and trained numerous associate attorneys

Associate Attorney - Foster, Swift, Collins & Smith, P.C. (Lansing, MI)

June 1983 - Jan 1988

- Represented unions, teachers and other clients in state and federal courts and administrative agencies
- Served as counsel in labor arbitration hearings
- Participated in recruitment of graduates and mentoring and training of young associates

Staff Member - Michigan House of Representatives (Lansing, MI)

June 1978 - June 1981

- Worked on personal staff of Speaker of the House
 - Met with constituents and staff members, and provided assistance as requested by the Speaker
 - Reviewed and researched legislation
-

Activities, Honors and Volunteering

- Student Intern, State Bar of Michigan, 1982-1983
- Member, East Lansing City Officers Compensation Commission, 1979-1980
- Member, Williamston Economic Development Corporation, 2001-2003
- Panel Member, Ingham County Employment Law Case Evaluation Panel, many years
- State Bar of Michigan Local Professional Ethics Committee, many years
- Received Theodore W. Swift Civility Award, Ingham County Bar Association, 2016
- Received AV rating, highest rating for lawyers from Martindale-Hubbell
- Local and Area Committee member, Greater Lansing Young Life, many years
- Presenter and lecturer, Institute for Continuing Legal Education, Employment Law, 2013
- Volunteer, Ingham County Meals on Wheels, presently



Board and Commission Application

Name: Tom Drooger Telephone: 616-638-0495

Address: 117 Stonegate Ct Date: 11/7/2019

Email Address: tom.drooger@gmail.com

Years as a Village Resident: 5 Occupation: Retired

Background/Interests: 35 plus years in technical sales and engineering for manufacturing companies - 7 years experience human resources - Manpower group at Steelcase

Please check the board(s) or commission(s) that you would be willing to serve on:

- Planning Commission, Historic Commission, Friends of Barber School, etc.

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

Yes No Seasonally - from to

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

I am interested in giving back to the community utilizing my experience to make SLV a better place to live.

Concerns for the Village; if any:

[Blank lines for concerns]

The Village of Spring Lake assures that no person shall, on the grounds of race, color, national origin, or sex be excluded from or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity.

1 Please attach a resume.

THOMAS D. DROOGER

117 Stonegate Court
Spring Lake, Michigan 49456

Phone: (616) 638-0495
Email: tom.drooger@gmail.com

PROFESSIONAL EXPERIENCE

Retired:

February 2019 - Present

Consulting for Sales Marketing and Human Resources

President: Stonegate Condo Association - Village of Spring Like, MI

Member: of the Audio-Visual & Lighting Team at Covenant Life Church - Grand Haven, MI.

Experis/ManpowerGroup

April 2012 – February 2019

Onsite at **Steelcase Corporation** – Grand Rapids, MI – www.manpowergroup.com

ManpowerGroup has a long-term contract with Steelcase Corporation to manage its contract workforce – Served as a **Program Manager and Engagement Manager**. Managing all aspects of the human Resource functions for Advanced Product Engineering, Order Management, Test Lab and Model Shop – coordinating the strategic and secession planning for the groups. Managing 60+ consultants in support of the Outsourced Managed Solutions team.

Great Lakes Casting Corporation

August 2004 – April 2012

Ludington, Michigan – www.greatlakescastings.com

Great Lakes Casting Corporation, a high production gray iron foundry involved in the sales and marketing of castings to multiple markets including: heavy equipment, office furniture, fluid power, automotive – direct and tier level. **New Business Development/Sales Engineer**. Responsible for all aspects of sales and marketing including New Business Development, Program Management and Account Management. Responsible for developing a program that offers complete finished castings into identified accounts. Experience in marketing to OEM's as well as Tier 1, 2 & 3 levels in the automotive and industrial markets.

StarCade, Incorporated/Cascade Engineering, Inc.

September 1997 – August 2004

Grand Rapids, Michigan – www.cascadeng.com

StarCade Incorporated, a joint venture between StarLite Ltd. of Japan and Cascade Engineering. The company was established to service Asian Transplants in the North American Market. The focus of their business was 80% automotive and 20% office automation and imaging (copiers and printers) and material handling.

Director of Sales and Marketing. Responsible for sales and marketing of injection molded plastic components and complex assemblies' automotive and non-automotive market applications. Led a staff focusing on project management and product engineering.

Lorin Industries

March 1994 – September 1997

Muskegon, Michigan – www.lorin.com

Lorin Industries the world leader in continuous coil anodizing of aluminum.

Vice President of Commercial Products - Strategic Business Unit (SBU) (1995-1997). Responsible for sales and marketing of products through distributors, tolling accounts, architectural, transportation and OEM. Led staff comprised of five market managers and six inside sales and administrative support employees. Responsible for profit and loss, as well as annual forecasted sales of \$32 million. Grew sales from \$23 million to over \$32 million in 2 years.

Previous Experience: **American Metal & Plastics Inc. Grand Rapids, MI – Account Executive** – www.ampi-gr.com

Union Twist Drill Division of Textron Inc. – Athol, Massachusetts – Factory Rep

EDUCATION

Western Michigan University, Kalamazoo, MI; Bachelors of Business Administration. General Business: Finance, Law and Business Communications.

Corporate-sponsored courses:

University of Michigan, School of Business, Executive Training Programs: Management of Managers Course 1 and 2.

American Management Association Courses: Financial Management for the Non-financial Manager, Managing Distributor Sales Network and How to Develop Marketing Plans, Strategies and Tactics.

PROFESSIONAL / CIVIC / MEMBERSHIPS

Western Michigan University Alumni Association

Jaycees International, JCI Senator #34191

Audio Engineer

PROFESSIONAL HIGHLIGHTS

- Experienced in all aspects of general management and organizational leadership.
- TS/ISO Certified Quality Auditor experienced in all aspects of Lean Manufacturing Methodology.
- Extensive sales, marketing and human resources experience in multiple industries.
- Articulate and persuasive in written and oral communications.
- Team Leader with a history of leading multi functional teams to successful outcomes.



Board and Commission Application

Name: Darcy J. Dye Telephone: (616) 296-0957

Address: P.O. Box 182 Date: 10/2/2019

Email Address: dlenzgrinden@gmail.com

Years as a Village Resident: Full-time resident - four years Occupation: Retired Artist/Educator

Background/Interests: Part-time Resident since 2003 I am a Master Naturalist and Facilitator of the Adopt a Garden Program in Spring Lake. I am a member of the River City Wild Ones and the Wildflower Association of Michigan. I helped create the Dominican Sisters' Prairie Habitat at Marywood. I hike and cross country ski in Michigan parks.

Please check the board(s) or commission(s) that you would be willing to serve on:

- Checkboxes for Village Council, Friends of Barber School, Beautification Committee, Planning Commission, Historic Commission, DDA, Zoning Board of Appeals, Development Area Citizens Council, Library Liaison, Parks & Recreation/Tree Board, Spring Lake Lake Board, Lloyd's Bayou.

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

Yes No Seasonally - from to

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

As the Village of Spring Lake develops its downtown and waterfront, as the Village considers becoming a Michigan Trail City, I would like to share my knowledge and (over) Concerns for the Village; if any: That we plan green spaces that reflect contemporary plant sciences, require low maintenance, and encourage community health and well-being.

The Village of Spring Lake assures that no person shall, on the grounds of race, color, national origin, or sex be excluded from or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The Village of Spring Lake further assures every effort will be made to ensure nondiscrimination in all of its committees, programs and activities, regardless of the funding source.

1 Please attach a resume.

Résumé

Darcy J. Dye
P.O. Box 182
Spring Lake, MI 49456
(616) 296-0957

Education

B.A. University of Michigan
B.A. Trinity College, Hartford
M.A. Middlebury College
M.A. University of Michigan

Background

Educator: Taught weaving, spinning, knitting, and natural dye making in Maine, Massachusetts, and South Africa.

Writer/Editor: Wrote articles on textile art, religious education, and planting Native Wildflowers for a variety of venues. Edited "Law Office Information Services" for the American Bar Association and "Rackham Journal of Arts and Humanities" at the University of Michigan.

Volunteer: Did art for the original Michigan Bottle Bill Campaign. Worked in Maine for the Penobscot Bay Stewards. Organized the art tent at the Maine Organic Farmers and Growers Association annual fair. Was a Board member for the Hartford Architecture Conservancy.

Artist: Exhibited textile art throughout New England. Have art in the permanent collections of the American Quilt Museum, The Textile Museum in Washington, D.C. and the Farnsworth Museum.

Current Environmental Work:

Facilitator of the Adopt a Garden Program
Member of the River City Wild Ones
Member of the Wildflower Association of Michigan
Consultant for the Prairie Habitat at Marywood
Designer of Pocket Gardens for Residential Sites
Author of articles on planting Michigan Native Plants
Collaborator with the Wild Seed Project in Maine

OCT 02 2019



Board and Commission Application

616 848 8003 Received
616 483 4203

Name: Lee Schaiterna Telephone: 616 848 8003

Address: 408 W. Exchange ST Date: 10/02/19

Email Address: SLSSendi @ Hotmail, Com

Years as a Village Resident: 16+ Occupation: Retired

Background/Interests: Started life as a milkman. Worked for 30 yrs as a machine builder (Heavy metal fabricator) certified Navy, Coast Guard, High Pressure, Air Force, Aluma Stainless. The last 7 years ran the shop

Please check the board(s) or commission(s) that you would be willing to serve on:

- Village Council, Planning Commission, Zoning Board of Appeals, Parks & Recreation/Tree Board, Friends of Barber School, Historic Commission, Development Area Citizens Council, Spring Lake Lake Board, Beautification Committee, DDA, Library Liaison, Lloyd's Bayou

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

Yes No Seasonally - from to

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

Have been for a number of years and hope to continue "hard" working

Concerns for the Village; if any:

Much work to be done, changes afoot, not all of them cool or needed. A lot of loose ends that require being tied down

The Village of Spring Lake assures that no person shall, on the grounds of race, color, national origin, or sex be excluded from or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity.

1 Please attach a resume.



Board and Commission Application

Name: Bill MEYERS Telephone: 231-730-0464

Address: 137 STONEGATE CT. Date: 11/8/19

Email Address: BMEYERS616 @ GMAIL.COM

Years as a Village Resident: 15 YRS Occupation¹: RETIRED - AIR TRAFFIC CONTROL

Background/Interests: WATER SPORTS AND AVIATION.

Please check the board(s) or commission(s) that you would be willing to serve on:

- | | | |
|---|--|---|
| <input type="checkbox"/> Village Council | <input type="checkbox"/> Friends of Barber School | <input type="checkbox"/> Beautification Committee |
| <input type="checkbox"/> Planning Commission | <input type="checkbox"/> Historic Commission | <input type="checkbox"/> DDA |
| <input checked="" type="checkbox"/> Zoning Board of Appeals | <input type="checkbox"/> Development Area Citizens Council | <input type="checkbox"/> Library Liaison |
| <input type="checkbox"/> Parks & Recreation/Tree Board | <input type="checkbox"/> Spring Lake Lake Board | <input type="checkbox"/> Lloyd's Bayou |

The above boards typically meet on a monthly basis, with the exception of the ZBA which meets on an "as needed" basis. Quorums are required for any board to act, so attendance is important. Do you feel the other board members can count on your regular attendance so that business can be conducted?

Yes No Seasonally - from _____ to _____

Why would you like to be on the board(s) or commission(s) you have selected: (Please use reverse side if necessary)

I WOULD LIKE TO CONTINUE AS A ZBA MEMBER TO SERVE OUR COMMUNITY AND BE A PART OF SPRING LAKE'S GROWTH.

Concerns for the Village; if any: NONE AT THIS TIME - I LOVE THE WAY THE VILLAGE IS PROGRESSING!

The Village of Spring Lake assures that no person shall, on the grounds of race, color, national origin, or sex be excluded from or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The Village of Spring Lake further assures every effort will be made to ensure nondiscrimination in all of its committees, programs and activities, regardless of the funding source.

¹ Please attach a resume.



MASS GATHERING APPLICATION

VILLAGE OF SPRING LAKE - Ordinance No. 357

This application is for public gatherings of 100 or more people.

102 W. Savidge St., Spring Lake, MI 49456
(616) 842-1393, FAX (616) 847-1393 • angela@springlakevillage.org

It is recommended that this application process begin and reservations made 120 days prior to an event to allow for planning on the part of the applicant and sponsor, adequate review of application by the Village Event Coordinator, scheduling of appropriate review meetings with required officers and Village officials, and for the appeal process should this application be denied for any reason. Any application submitted less than 60 days prior to an event risks not being approved due to time constraints. All public land reservations are taken on a first come, first served basis.

Thank you for considering the Village of Spring Lake for your event. We look forward to working with you to ensure the success of your event with the public health, safety and welfare of your guests and our residents as well as the proper use of Village services and personnel in mind.

APPLICANT INFORMATION:

Name of event: Rotary Snow Jam
Date(s) of event: 02.08.20 Number of people expected to attend: 200+/-
Proposed location of event: Central Park
Name of applicant: David Rhem
Name of sponsoring organization: Springlake Rotary

DATES:

OFFICE USE ONLY

Application provided to Permittee (with site maps) _____ Public land reservation made _____
\$150.00 Non-refundable fee received _____ Check # _____ (NOTE: Fees must be submitted as separate checks.)
\$250.00 Refundable security deposit received _____ Check # _____ Refunded (if applicable) _____
Completed application (with site plan) submitted _____ Signed Hold Harmless submitted _____
Certificate of Insurance (No less than three days before event) _____ Liquor License (No less than three days before event) _____
Permit Approved: YES NO PERMIT # _____ If NO, Denial communicated _____
Authorized Village Signature _____ Date: _____

REQUIRED MEETINGS

Initial Review 10.16.19 ARB
(Should not be scheduled less than 60 days in advance of event)
Final Review 1.
(Should be scheduled for 1 week in advance of event)
Post Review _____
(Should be scheduled for two weeks after event)

APPLICATION REVIEWED AND APPROVED BY

SL DPW _____ Date _____
OCSO _____ Date _____
SL Fire _____ Date _____
SL EMS _____ Date _____

PERMIT APPLICATION AND CONDITIONS

CONTACT INFORMATION

APPLICANT

Name of Applicant: David Rhem

Address: _____

Cell Phone #: 616-481-0460 Alternate Phone#: 616-847-5321

Email: drhem@noch.org

SPONSOR

Sponsoring Organization: Spring Lake Rotary

Contact Name (if different from applicant): _____

Address: _____

Phone #: _____ Email: _____

DAY OF EVENT

On-Sight Contact Name (if different from applicant): David Rhem
Cell Phone #: 616-481-0460

Alternate On-Sight Contact Name: _____
Cell Phone #: _____

Law Enforcement Non-Emergency Contact: Jason Kik
Cell Phone #: 616-638-7730

On-Call DPW Worker Name: _____
Cell Phone #: _____

DPW Supervisor Name: Wally Delameter
Cell Phone #: 616-843-4472

Village Event Coordinator: Angela Stanford-Butler
Cell Phone #: 773-793-3753

EMERGENCY PLAN

Will there be an onsite **Medical Emergency/First Aid Stations** established? Yes No

If "YES" what is the location? 1st AID KIT

If "NO" how will an emergency be handled? _____

Will there be an onsite **Fire Emergency Station** be established? Yes No

If "YES" what is the location? _____

If "NO" call 911 and be certain you and your staff are aware of your location.

Will there be an onsite **Police Emergency Station** be established? Yes No

If "YES" what is the location? _____

If "NO" call 911 and be certain you and your staff are aware of your location.

In case of **Severe Weather** who makes the call to cancel the event:

Name: David Rhem

Cell Phone #: 616-481-0460

Is there a Severe Weather Shelter Area: Yes No

If "YES" what is the location? _____

In case of Severe Weather is there an Alternate Event Location? Yes No

If "YES" what is the location? _____

GENERAL EVENT INFORMATION

Type of Event: Entertainment Tent

Describe in detail the activities planned: Live band, food vendors, clowns, outdoor activities, alcohol sales

(Use an additional sheet of paper if necessary)

SCHEDULE

Day of Week	Date	Time
Setup: <u>Friday</u>	<u>02.07.20</u>	<u>10 AM - 12 NOON</u>
Event Starts: <u>Saturday</u>	<u>02.08.20</u>	<u>4pm - 11pm</u>
Event Ends: <u>Saturday</u>	<u>02.08.20</u>	<u>10 PM</u>
Dismantle: <u>Sunday</u>	<u>02-08-20</u>	<u>AM</u>
<u>Sunday or Monday</u>	<u>2/9/20 or 2/10/20</u>	

EVENT DETAILS

Please provide on a separate sheet of paper if necessary, a complete disclosure and description of the following:

1. Will alcohol be sold or provided?

Yes No

If "YES" the applicant is responsible for obtaining a liquor license. A copy of the license must be provided to the Village no less than three (3) days prior to the event and fencing must be erected. See *Fencing in the Village of Spring Lake Mass Gathering Ordinance (VSLMGO) No.0 of 2019.*

Description of any beverages to be provided or sold to public. beer + wine

2. Will food or merchandise to be sold or provided?

Yes No

If "YES" then see *Food Service in the VSLMGO No.0 of 2019.*

Description of food or merchandise to be provided or sold to public. food trucks in parking lot

3. Do you plan to have sound amplification?

Yes No

If "YES" then see *Noise Control in the VSLMGO No.0 of 2019.*

Provide description. live band

Done before 11pm

4. Are there restroom/facility requirements?

Yes No

If "YES" then see *Restroom Facilities* in the VSLMGO No.0 of 2019.

Describe facilities to be utilized. If portable facilities are being brought in, please indicate the number of units and vendor name. _____

_____ *JONS To Go*
_____ *2 portable restrooms*
_____ *1 Handicap Accessible restroom*

5. Are there waste/trash/recycling requirements?

Yes No

NOTE: The sponsoring agency is responsible for providing trash and garbage pickup and bag replacement and must make arrangements for their trash to be hauled away. The area must be restored to clean after this event.

Plan for gathering waste during the event and removing waste after the event. _____

6. Is electrical power required?

Yes No

Describe power requirements and how power is to be provided. _____

_____ *Generators too - for heat/tent lights*
_____ *Fire Dept can approve on Friday*

7. Will any type of tent(s) or structure be setup or installed? Provide map that shows placement and provide a description of tent(s) here. NOTE: Certain tents and structures require Fire Dept. approval.

Yes

_____ *Fire Dept can inspect on Friday*

8. Will site security be required for this event?

Yes No

Describe the location and plan for your security. _____

9. Will this event require procedures to manage vehicle traffic, road closures, parking, and circulation expectations for pedestrians? (NOTE: Law enforcement is authorized to make modifications to vehicle and/or pedestrian barricades, traffic routes and street closures based on public health, safety and welfare.)

If "YES" then answer all the following applicable questions:

- Citizens are not authorized to stop road traffic. Will you need help from the Ottawa Co. Sheriff's Office (OCSO) to manage traffic? NOTE: There is a cost affixed to officer involvement based on day and time. Yes No

Provide details of anticipated locations, dates and times. _____

- Will your event require road closures? Yes No

Provide details of anticipated locations and process (for event or unloading and loading). _____

- Will barricades be required? Yes No

How many barricades will be needed? _____
Provide details of anticipated procedures and process. 8-10 barricades
are needed to mark parking areas. Please provide
cost estimate before final decision is made.

- Will "NO PARKING" areas be required? Yes No

Provide details of anticipated locations and dates. (NOTE if you plan to arrange for towing of vehicles signs must say NO PARKING in 2" tall letters and must be out no less than 48 hours before towing would begin. You must also include the name and number of the towing company.) _____

- How do you plan to manage pedestrian traffic? N/A

Provide details of anticipated procedures and process. _____

SKETCH PLAN

Please provide detailed site plan of location and include the following details (if applicable).

Let the Village Event Coordinator know if you need either a digital or hard copy of a map of the area.

- Event area/land layout
- Staging areas for event (unloading, loading areas)
- Parking Areas (indicate ADA parking – this must be available)
- Designated NO PARKING areas (include sign requirements)
- Vehicle/Pedestrian/Runner circulation routes/travel lanes
- Street, sidewalk, and pathway closures or reroutes (include sign/barricade requirements)
- Primary entrance and exits
- Temporary fencing layout (this is required if liquor is served/sold)
- Layout of vendors, tents, events, PA or music source
- Food and water sources
- Restrooms
- Waste, trash, recycle disposal
- Electrical sources
- Main contact event coordinator's primary location
- Emergency support locations – Police, Security, Fire, Medical, Communications

ADDITIONAL CONDITIONS & REQUIRMENTS

Certificate of Insurance: No permits will be issued without a current Insurance Certificate that names the Village as a co-insured party, turned into the Village no less than three (3) days prior to the event.

Security Deposit: Sponsoring agency is responsible for cleaning and restoring the site after the event. The site will be reviewed by the DPW at the earliest convenient time after the event and a report will be delivered to the Village Event Coordinator.

If the site is clean and restored the permittee's security check will be returned at the Post Review meeting which will be scheduled approx. two weeks after the event.

If the site is not clean and restored the cost of restoration will be borne by the permittee. **See 2.5 Requirement for Applicant's Reimbursement to the Village (1) Cost Determination in the VSLMGO No. 0 of 2019.**

Miss Dig: If ground stakes are used for tents and temporary structures, you may be required to contact MISS DIG no less than 1 week prior to event. Failure to do so could result in license being withdrawn and cancellation/postponement of event. 1-800-482-7171

Camping: Camping in or on public property, streets, parking areas and parks is prohibited. Fires in the park are only allowed in the approved grills. Camp fires in the park are not allowed.

AFFIDAVIT OF APPLICATION

As the applicant, I hereby agree to abide by the terms set forth in this application and the Ordinances of the Village of Spring Lake. I understand the failure to do so may lead to the cancellation of the event, or the denial of a future license. I certify that the information contained in the foregoing application is true and correct to the best of my knowledge and belief and I have read, understand, and agree to abide by the rules and regulations established by the Village Council and/or Village Manager.

X Yes, I agree to the above terms _____ No, I do not agree to the above terms

I declare under penalty of perjury that the information provided in this application is correct.

Signature Applicant: [Handwritten Signature] Date: 10/16/19
for SL Rotary Club

Additional Conditions of Approval: (attach conditions of approval)

HOLD HARMLESS AGREEMENT

This special event applicant or designees of the sponsoring organization(s) (hereafter called "licensee") agrees to reimburse the Village of Spring Lake (hereinafter called "Village") for all loss incurred by it in repairing or replacing damage to Village property proximately caused by the licensee, its officers, employee, agents, monitors, or any other persons attending or forming the special event who were, or should have been, under the licensee's control. Persons who merely attend or join in a special event are not considered by that reason alone to be "under the control" of the licensee.

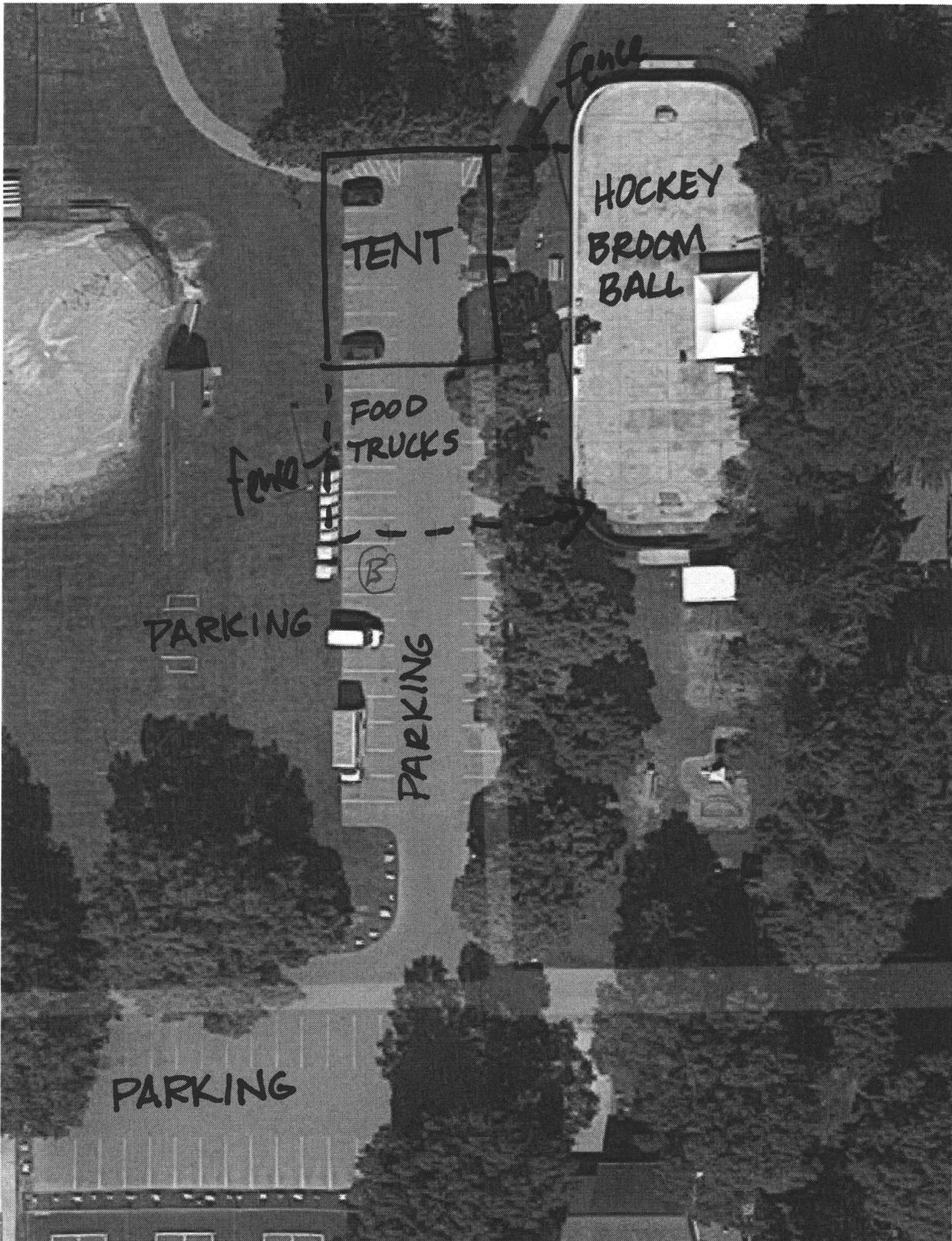
The licensee further agrees to defend without costs, indemnify, and hold harmless the Village, its officers, agents, and employees from any liability to any persons, damages, losses, or injuries arising out of or alleged to arise out of the licensed event, which was proximately caused by the actions of the licensee, its officers, employees, agents, including monitors, or any other persons attending or joining in the event who were, or reasonably should have been under the control of the licensee. Persons who merely attend or join in an event are not considered by that reason alone to be "under the control" of the licensee.

I understand and agree to comply with all terms of the above Hold Harmless Agreement if my application has been approved and all special conditions and required advance payment have been met.

Signature of Applicant(s) [Handwritten Signature] Date 11/6/19
for SL Rotary

Signature of Officer Sponsoring Organization [Handwritten Signature] Date: 11/6/19

Title: Snow Jam Committee Chair



TENT

HOCKEY
BROOM
BALL

FOOD
TRUCKS

PARKING

PARKING

PARKING

fence

fence



VILLAGE OF SPRING LAKE
 102 W. Savidge Street, Spring Lake, MI 49456
 (616) 842-1393 – Fax (616) 847-1393
 Spring Lake Mill Point Park Band Shell Agreement

Date of Function: Saturday, May 30, 2020 Time of Function: 8am - 5pm
 Band date: Sunday, May 31, 2020
 Type of Activity: Classic & Wooden Boat Show # Expected _____

Date of This Request: Oct. 29, 2019 Telephone # _____ Cell # _____

Individual, entity or organization sponsoring or conducting the event: Spring Lake
Historic Conservation Commission / Mark Miner

Address: _____

1. Prospective users may make a request to the Village Council to reserve the Mill Point Park Band Shell for civic, charitable, other non-profit events for no charge or pre-approved commercial events who pay the requisite fee determined from time to time by the Village Council in the Annual Fee List (\$25 Village resident and \$50 non-resident). Reservations shall be made through the Village Office during regular business hours. A reservation is confirmed only upon approval by the Village Council and completion of this agreement. The Mill Point Park Band Shell may be reserved any day or evening that other activities are not scheduled.
2. The time limit for use is two hours except for those who request the Village Council for up to four hours & for Village sponsored events (Heritage Festival, Thursdays at the Point, etc.).
3. A refundable security deposit of \$100 is required for all events. Provide a separate check to the Village of Spring Lake with this agreement. It will be returned after the event if no damage occurs.
4. Please answer the following:
 - A. Is your planned event a fully non-profit event? Yes X No _____
 - B. Will anything be sold by anyone at this event? _____
 If yes, what is being sold and by whom (name of entity/organization/individual)

 - C. Is there any type of fee charged to anyone to be present at or to participate in this event?
 Yes _____ No X
 If yes, who is receiving the fee? _____
 - D. Is any entity or organization named in B and C above a legally established non-profit organization as defined under the Internal Revenue Code? Yes X No _____

Continued on back



November 2019 | Events Newsletter

Shop 'Til You Drop

Friday, November 8 | 7pm - 10pm

Washington Ave., Grand Haven

[Shop 'Til You Drop](#)

Stay up late, shop the night away, and save big on all of your holiday gifts! Start your holiday shopping early and take advantage of the discounts offered by participating merchants. Happy shopping in downtown Grand Haven!

Holiday Artisan Market

Saturday, November 9 | 9am - 4pm

Grand Haven Artisan Market

421 Columbus St., Grand Haven

[Grand Haven Artisan Market](#)

We have a fantastic lineup of talented artisans, direct sale vendors to support! Stop in and hear some awesome music, share some great food and support your local and regional artisans!

Sunday Afternoon Concert Series

Sunday, November 10 | 2pm

Loutit District Library, Upper Level

407 Columbus Ave., Grand Haven

[loutitlibrary.org](#)

Grand Haven's Main Street is all abuzz with holiday cheer as Washington Avenue is brightened by an eye-catching display of seasonal lights during the all-illuminating Light Night event. With a kickoff to the 2019 Holiday Shopping season in downtown Grand Haven.

Light Night

Friday, November 22 | 5:30pm - 7:30pm

Washington Ave., Grand Haven

(616) 842- 1188

Grand Haven's Main Street is all abuzz with holiday cheer as Washington Avenue is brightened by an eye-catching display of seasonal lights during the all-illuminating Light Night event. With a kickoff to the 2019 Holiday Shopping season in downtown Grand Haven.

Turkey Trot 5K

Thursday, November 28 | 7:30am - 9:30am

1 Y Dr., Grand Haven

[Turkey Trot 5K](#)

This is a run/walk and is meant to be fun for the whole family. Dress up and come celebrate all that you have to be thankful for and support OSI's mission. All funds raised this year will help provide Equine Assisted Psychotherapy for trauma victims, including children who have been physically/sexually abused and US Veteran's suffering from PTSD.

Small Business Saturday

Saturday, November 30 | All Day

Downtown Spring Lake | Washington Ave., Grand Haven

Small Business Saturday is a day dedicated to supporting small businesses across the country. See how one small day has grown into a movement that millions of individuals, businesses, and communities have embraced nationwide.

Allendale Artisan & Craft Marketplace

Saturday, November 30 | 9am- 3pm

10760 68th Ave., Allendale

[Allendale Artisan & Craft Marketplace](#)

The public is invited to this FREE annual event. Featuring 120+ crafters and vendors with products ranging from hand-sewn and hand knit items, jewelry, decorative art, artisan bread, candles, and much more.

Kids, Crafts, and Critters

Saturday, November 30 | 10am - 1pm

Coopersville Farm Museum & Event Center

[coopersville.com](#)

Activities are designed for children ages 10 and under but there is plenty to do for individuals of all ages! A different craft is featured every month as well as different critters. Come see what's happening this month!

Visitors Center | 225 Franklin Ave., Grand Haven | [visitgrandhaven.com](#)

Monday - Friday, 9am - 5pm | Closed Weekends & Holidays

Get Social With:



@VisitGrandHaven #VisitGrandHaven

NOTE: Event dates & times are subject to change. Please call to confirm or to obtain event details.

For a complete calendar of events, go to [www.visitgrandhaven.com](#) or call 616.842.4499.

Newsletter maintained by: Marissa Medici, Customer Service Coordinator | info@visitgrandhaven.com

Ongoing Activities

See our website @VisitGrandHaven.com
for a full list of upcoming activities & events!

Ottawa County Parks Programs

(616) 738-4810

miottawa.org/parks

Nature Education Center

8115 West Olive Rd., West Olive
(616) 786-4847, miottawa.org/parks.
Tuesday - Saturday | 9am - 5pm
Sunday | Noon - 5pm

Moonlight Night Hike Fri., Nov. 8
@ Hemlock Crossing 7pm - 8:30pm

Astronomy Sat., Nov. 9
@ Hemlock Crossing 7 - 8pm

Nature's Art Brush Series Sat., Nov. 9
@ Hemlock Crossing 10am - 12pm

Live Music

The Kirby House

Rich Burkholder

Friday, November 8 at 9:30pm

2 Washington Ave., Grand Haven

thegilmorecollection.com/kirbyhouse/, (616) 846-3299.

Sandy Point Beach House

Easy Listening with Coty Bouchard

Saturday, November 16 at 6pm

7175 Lake Shore Dr., West Olive

sandypointbeachhouse.com, (616) 796-8210.

Theatre Bar

Post Fontaine

Saturday, November 23 at 7pm

22 Washington Ave., Grand Haven

harborrestaurants.com/theatrebar, (616) 844-5055.

Grand Armory Brewing Company

Van Mason

Friday, November 29 at 8pm

17 S. 2nd St., Grand Haven

grandarmorybrewing.com, (616) 414-7822.

Seven Steps Up Live Music & Event Venue

(231) 557-7687

sevenstepsup.com

Pin Drop Concerts 2019

116 S. Jackson St., Spring Lake

An Evening with Fri., Nov. 1
Ellis Paul 8:00pm

Brendan James with Fri., Nov. 15
Pete Muller 8:00pm

The Moxie Strings Sat., Nov. 23
8pm

Cooking Classes

Artisan of Grand Haven

1322 Washington Ave., Grand Haven

artisanofgrandhaven.com, (616) 296-9200

Offering great classes for those who want to learn to cook like the pros or just get more comfortable in their own kitchen.

Visit website for more info on "Dinner and a Chef," "Dinner and a Demo," booking a private event, and more!

Vinyl Night Wednesdays @ Grand Armory

Every Wednesday at 7:30pm

grandarmorybrewing.com, (616) 414-7822

DJ Donz will be spinning his favorites and you're welcome to bring your favorite records.

Folk Music Jam Night

First & Third Tuesday, 6 - 9pm

Coopersville Farm Museum - 375 Main St.

coopersvillefarmmuseum.org, (616) 997-8555

Come perform, jam along, or sit back and enjoy the music. Acoustics only. \$4 admission

Trivia Night at Odd Side Ales

Every Tuesday at 7:30pm

Free trivia competition for cash prizes.

41 Washington Ave., Grand Haven

The Creative Fringe

Jewelry making classes

117 Washington Ave., Grand Haven

thecreativefringe.com, (616) 296-0020

SilverFire Studios

Metal, clay, and glass fusing classes

41 Washington Ave., Ste. 387, Grand Haven

silverfirestudios.com, (616) 402-3145

Studio JSD

Metalsmithing classes, jewelry fabrication & more

219 N. 7th St., Suite 4, Grand Haven

studiojsd.com, (616) 607-2470

Armory Art Center

Art classes & workshops

17 S. 2nd St., Grand Haven

armoryartcenter.com, (616) 402-6979

Dreese Fine Art & Framing

Painting Parties

8 N. Ferry, Grand Haven

dreesefineart.com, (616) 402-4868

Wine, Beer & Hard Cider Tasting

12 Corners Winery

Wine Tastings Daily

Wednesday & Thursday | Noon-6pm

Friday & Saturday | 1pm-7pm

Sunday | Noon-5pm

41 Washington, Suite 144, Grand Haven

12corners.com, (616) 414-7070

Lemon Creek Winery Tasting Room

Wine Tastings Daily

Monday-Saturday | Noon-7pm

Sundays | 12pm-5pm

327 N. Beacon Blvd., Grand Haven

lemoncreekwinery.com, (616) 844-1709

Farmhaus Cider Co.

Cider Tasting

Thursday, 4pm-9pm | Friday, 4pm-10pm

Saturday 2-10pm | Sunday 1-6pm

5025 Stanton St., Hudsonville, MI 49426

farmhauscider.com (616) 920-1867

Odd Side Ales

Brewery

Sunday | Noon-8pm

Monday-Thursday | Noon-10pm

Friday & Saturday | Noon-12am

41 Washington Ave., Grand Haven

oddsidaales.com, (616) 935-7326

Old Boys' Brewhouse

Brewery & Restaurant

Sunday | Noon-8pm

Monday-Thursday | 11:30am-10pm

Friday & Saturday | 11:30am-12am

971 W. Savidge St., Spring Lake

oldboysbrewhouse.com, (616) 850-9950

Trail Point Brewing Company

Brewery

Sunday | 1pm-8pm

Monday-Thursday | 3pm-10pm

Friday & Saturday | Noon-12am

6035 Lake Michigan Dr., Allendale

trailpointbrewing.com, (616) 895-2739

Grand Armory Brewing

Brewery

Monday-Thursday | 3pm-10pm

Friday | Noon-12am

Saturday | Noon-12am

Sunday | Noon-8pm

17 S. 2nd St., Grand Haven

grandarmorybrewing.com, (616) 414-7822

Vander Mill

Daily Hard Cider Tastings

Wednesday & Thursday | 2pm-9pm

Friday | 2pm-10pm

Saturday | 11am-10pm

Sunday Brunch | 10am-2pm

14921 Cleveland St., Spring Lake

vandermill.com, (616) 842-4337





Spring Lake District Library Calendar of Events November 2019



Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>Questions about library programs or services?</p> <p>Call 616.846.5770 or visit sllib.org for more information</p>	 <p>Film streaming service find at sllib.org</p>		 <p><i>In the Time of Butterflies</i></p>	 <p><i>The Rooster Who Would Not Be Quiet!</i></p>	<p>1 10:30 am Preschool Storytime: <i>Costumes</i></p>	<p>2</p>  <p>Instagram @springlakedistrictlibrary</p>
<p>3 Sunday hours 2-5 pm</p> <p><i>Fines Forgiven Week up to \$10 in SLDL fines waived with donations of new paper and personal care items for The People Center</i></p>	<p>4 10 am SLDL Friends; newcomers welcome</p>	<p>5 9:45 am Little Movers Storytime 11 am Baby Bounce Storytime 5:15 pm Kids Photo Club: register please 6:30 pm Teen Photo Club; register please</p>	<p>6 10:30 am Little Read Storytime: <i>Animals Around the World</i> 4-5 pm LEGO Party 7 pm NEA Big Read: Dominican Republic in the Time of the Mirabal Sisters</p>	<p>7 10:30 am Preschool Storytime: <i>Apples & Pumpkins</i> 4 pm Little Read Storytime for Bigger Kids: <i>Speak Up!</i> 6:30 pm WW II Veteran Virgil Westdale</p>	<p>8 10:30 am Preschool Storytime: <i>Apples & Pumpkins</i></p>	<p>9</p>  <p>Facebook.com/ SpringLakeDistrictLibrary</p>
<p>10 Sunday hours 2-5 pm</p>	<p>11</p>	<p>12 9:45 am Little Movers Storytime 11 am Baby Bounce Storytime 7 pm Perfect Pecan Pie, registration required</p>	<p>13 9:30 or 10:45 am OAISD Play 'n Learn, ages 0-5</p> <p>6:30 pm NEA Big Read: <i>In the Time of Butterflies</i> film; PG-13, 95 minutes</p>	<p>14 10:30 am Preschool Storytime: <i>Silly Stuff</i></p>	<p>15 10 am SLDL Board Meeting 10:30 am Preschool Storytime: <i>Silly Stuff</i> 4 pm WMC Jazz Band & Instrument Petting Zoo</p>	<p>16 SLDL Friends Book Club meets 3rd Thursday of each month at 4 pm; newcomers welcome!</p>
<p>17 Sunday hours 2-5 pm</p> <p>3-4 pm Music by the Fireplace: cellist Pablo Mahave-Veglia</p> 	<p>18 7 pm Fabulous Floral Arrangement with Bob Friese; drawings for 5 floral arrangements</p>	<p>19 9:45 am Little Movers Storytime 11 am Baby Bounce Storytime</p>	<p>20 9:30 am OAISD Play 'n Learn, ages 0-24 mos. 3:30-5 pm Teen 'Scape ages 10-18</p>	<p>21 9:30 am-3 pm Medicare Open Enrollment; appointment required 10:30 am Preschool Storytime: <i>Thankful</i> 4-5 pm Full STEAM Ahead: <i>Strawbees</i></p>	<p>22 10:30 am Preschool Storytime: <i>Thankful</i></p>	<p>23</p> 
<p>24 Sunday hours 2-5 pm</p>	<p>25</p>	<p>26 9:45 am Little Movers Storytime 11 am Baby Bounce Storytime</p>	<p>27</p>	<p>28 Happy Thanksgiving</p>  <p>Library Closed</p>	<p>29</p>	<p>30</p>  <p>find at sllib.org</p>

Library programs and events are photographed or recorded for publicity or promotional purposes of the Library. Persons attending these programs or events consent to the use of their photograph or recording unless they specifically notify Library staff of an objection to such use. No names will be used in conjunction with photographs or recordings without express written consent.

Christine Burns

From: Wally Delamater <WDelamater@springlaketwp.org>
Sent: Wednesday, November 6, 2019 11:32 AM
To: vicki Barnes
Subject: RE: Bike Path

Vickie,

I will have the lights checked. I did ask that since the time change that the timers be reset. I thought that had been accomplished but maybe I have other issues. Please continue to let me know if the lights are not operating at times when they need to be.

Thanks for letting me know,

Wally Delamater
Spring Lake Public Works

From: vicki Barnes <vickislic@yahoo.com>
Sent: Wednesday, November 6, 2019 11:00 AM
To: Wally Delamater <WDelamater@springlaketwp.org>
Subject: Bike Path

Greetings,

I hope you can help.

For twenty years I have walked the bike path along with other dog walkers. Because we worked, our walk time was always 7:00 pm. Even though we are partially retired, we still stick with this routine. The problem is that currently the lighting on the path is an issue. The last couple of nights the lights didn't come on until 7:20ish. It is dark by 6:00. It is a bit risky walking in the dark. We have such nice new lighting. It is a shame that things aren't working properly.

Can you shed some light on this problem?

Vicki Barnes

MARSP State Membership Committee Co-Chair

*Are you a Michigan public school retiree? "Be Smart. Join MARSP."
Michigan Association of **Retired School Personnel***

Christine Burns

From: Christine Burns
Sent: Friday, October 25, 2019 11:23 AM
To: 'robertduer69@gmail.com'
Subject: RE: Website Contact Form "Water/Sewer payment remittance"

Good morning Mr. Duer,

The Village does not supply envelopes in our water bills for 3 reasons. First, there is a cost associated with the purchase and printing of SASE. Second, it requires additional postage to include those with the water bills and finally, we have a great deal of residents who pay online, via ACH or use our drop box. The costs associated with providing that envelope would have to be spread amongst ALL the users and we find that very few people actually use them. I am going to drop 4 envelopes in the mail to you today so that you have them to pay your 2020 water bills. As far as the perforated water bills, the issue is the same...it costs more. Those costs are passed on to the user and we find that most people would rather pay less whenever practical. You do not have to include the lower portion with your water bill if it's too troublesome to tear off. If your address is on your check you can simply mail it to us and we will figure out what account to credit. If you can write your account number in the memo line, that is helpful, too.

Thank you for reaching out to us.

Fondly,

Christine Burns
Village Manager

-----Original Message-----

From: Robert Duer <no-reply@www.springlakevillage.org>
Sent: Saturday, October 19, 2019 9:16 AM
To: Maryann Fonkert <Maryann@springlakevillage.org>; Lori Spelde <Lori@springlakevillage.org>
Subject: Website Contact Form "Water/Sewer payment remittance"

Caution! This email is from an external address and contains a link. Use caution when following links as they could open malicious web sites.

From: Robert Duer <robertduer69@gmail.com>
Subject: Water/Sewer payment remittance

Message Body:

Why doesn't the Village supply residents with envelopes for payment remittance of water/sewer bills? I'm sure that I'm not the only Village resident with this question. Also, could you please make perforations on billing statements better for ease of separation. They are either nonexistent or of very poor quality.

Thank you for taking time to read this. I look forward to your response.

Sincerely, Robert Duer.

--

This e-mail was sent from a contact form on Village of Spring Lake (<http://www.springlakevillage.org>)

Christine Burns

From: Hair Creations Studio Inc. <haircreationsstudio222@yahoo.com>
Sent: Tuesday, October 29, 2019 3:52 PM
To: Christine Burns
Subject: Re: Large grass

Also my sprinkling system is not working.

Darla Long

> On Oct 29, 2019, at 3:06 PM, Christine Burns <christine@springlakevillage.org> wrote:

>

> Darla,

>

> Those grasses would have been planted prior to my arrival in 2012 as the Village has not done any landscaping in that area during my tenure. According to our legal Counsel, there was a parking easement signed in 1988 when Eric DeLong was the manager. The easement is fairly detailed, but in general it gives the Village the right to construct the public parking lot and pedestrian walkway, and also to install landscaping and irrigation. While the easement gives the Village the right to enter the property for purposes of maintaining the parking lot, walkway, irrigation and landscaping, it is not an obligation. Therefore it becomes more of a policy decision as to whether or not to spend resources in that manner. This could also be something that is contemplated by the DDA plan, but I would have to take a closer look at the document to see if such expenditures would be permissible. I predict that maintaining private landscaping is not an allowable expenditure for the DDA.

>

> This past summer, we had two Village property owners come to Council and request that they allocate tax dollars to maintain private property. Council adopted a resolution (attached) indicating that the Village does not have the resources to maintain private landscaping. Let's assume they did not take that position and we took care of landscaping for those two individuals. Where do we stop? We cannot maintain for some and not others...that's essentially picking winners and losers. Therefore the decision was made that private property owners are responsible for their own landscaping and Council formalized such with Resolution 2019 -19.

>

> Hope that explanation helps.

>

> Fondly,

>

> Chris

>

> -----Original Message-----

> From: Hair Creations Studio Inc. <haircreationsstudio222@yahoo.com>

> Sent: Tuesday, October 29, 2019 2:44 PM

> To: Christine Burns <christine@springlakevillage.org>

> Subject: Re: Large grass

>

> Im not sure when that went into effect. Because the village planted those. They are too hard to maintain and are an eyesore also, for the past 20 years except for the past 2 years the village has maintained that property. The purpose of me asking for the village to remove them is because the root system is too tough to dig out, since we already tried. So as a favor to the business could you pull them out, and again we have no problem taking care of the property.

> When did you decide that the business takes care of this? Never received a letter of any kind, and if it was talked about in a meeting I would like to know when so I can get the minutes.

226
381-023

222
381-004

218
381-005

214
381-006



Christine Burns

From: Christine Burns
Sent: Tuesday, October 29, 2019 3:57 PM
To: Hair Creations Studio Inc.
Subject: RE: Large grass

Darla,

We will continue to remove snow from the parking spaces. You should not plan on the Village maintaining your landscaping or irrigation.

Here is a link to the Ottawa County website where the public can access all the aerials. You can browse any property in Ottawa County, but this one is takes you to your block. Just click and drag to move to whatever parcel interests you:

https://gis.miottawa.org/ottawa/geocortex/propertymapping/?run=search_PIN&PIN=70-03-15-381-005

Fondly,

Chris

-----Original Message-----

From: Hair Creations Studio Inc. <haircreationsstudio222@yahoo.com>
Sent: Tuesday, October 29, 2019 3:51 PM
To: Christine Burns <christine@springlakevillage.org>
Subject: Re: Large grass

I did receive the email and at this time we as business owners on this block would like to know what to expect from the village when it comes time to snowplow the parking lot and sidewalks?

Also please attach an aerial of the east end of my block and the block east of that where the new building is being constructed.

Darla Long

> On Oct 29, 2019, at 3:06 PM, Christine Burns <christine@springlakevillage.org> wrote:

>

> Darla,

>

> Those grasses would have been planted prior to my arrival in 2012 as the Village has not done any landscaping in that area during my tenure. According to our legal Counsel, there was a parking easement signed in 1988 when Eric DeLong was the manager. The easement is fairly detailed, but in general it gives the Village the right to construct the public parking lot and pedestrian walkway, and also to install landscaping and irrigation. While the easement gives the Village the right to enter the property for purposes of maintaining the parking lot, walkway, irrigation and landscaping, it is not an obligation. Therefore it becomes more of a policy decision as to whether or not to spend resources in that manner. This could also be something that is contemplated by the DDA plan, but I would have to take a closer look at the document to see if such expenditures would be permissible. I predict that maintaining private landscaping is not an allowable expenditure for the DDA.

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resources to maintain private landscaping. Let's assume they did not take that position and we took care of landscaping for those two individuals. Where do we stop? We cannot maintain for some and not others...that's essentially picking winners and losers. Therefore the decision was made that private property owners are responsible for their own landscaping and Council formalized such with Resolution 2019 -19.

>
> Hope that explanation helps.

>
> Fondly,
>
> Chris

> -----Original Message-----

> From: Hair Creations Studio Inc. <haircreationsstudio222@yahoo.com>

> Sent: Tuesday, October 29, 2019 2:44 PM

> To: Christine Burns <christine@springlakevillage.org>

> Subject: Re: Large grass

>
> Im not sure when that went into effect. Because the village planted those. They are too hard to maintain and are an eyesore also, for the past 20 years except for the past 2 years the village has maintained that property. The purpose of me asking for the village to remove them is because the root system is too tough to dig out, since we already tried. So as a favor to the business could you pull them out, and again we have no problem taking care of the property.

> When did you decide that the business takes care of this? Never received a letter of any kind, and if it was talked about in a meeting I would like to know when so I can get the minutes.

> Thank You

>
> Darla Long

>> On Oct 29, 2019, at 1:07 PM, Christine Burns <christine@springlakevillage.org> wrote:

>>
>> Hi Darla,

>>
>> I have attached an aerial GIS showing the property lines for Mama Mia's Pizza. As you can see, the grass that you are referring to is entirely on private property, not Village property. While the Village has a parking easement for that area, we are not required to maintain landscaping for private property owners. I think there was some confusion about this with your neighbor to the west earlier this summer. That landscaping is theirs to maintain how they see fit.

>>
>> Thanks,

>>
>> Chris

>>
>> -----Original Message-----

>> From: Hair Creations Studio Inc. <haircreationsstudio222@yahoo.com>

>> Sent: Friday, October 25, 2019 2:33 PM

>> To: Christine Burns <christine@springlakevillage.org>

>> Subject: Large grass

>>
>> Would you please have someone come and take the tall dune grass out of the ground behind Mama Mia's pizza before snowfall. We have greater things planned for the area. Let me know Thank You

>>
>> Darla Long
>> <Mama Mias.PNG>

>
> <2019 - 19 Public Property.docx>

Christine Burns

From: Leslie Newman <newmanle@gmail.com>
Sent: Tuesday, October 15, 2019 9:34 AM
To: Christine Burns
Subject: Re: Yellow fungus

I did a property search on ottawami.org

Owner of 233 Meridian is Phyllis L. Fritchen. The mailing address is listed as 233 Meridian. Perhaps someone on the Tree Committee could send a letter to the address c/o Phyllis Fritchen. It might get to someone who can give permission or arrange for treatment.

Thanks,
Leslie

On Mon, Oct 14, 2019 at 1:50 PM Christine Burns <christine@springlakevillage.org> wrote:

Hi Leslie,

We are very familiar with the tree that you are referencing as a member of our tree board lives directly across the street and has been watching it for many years. However, the tree is not located within the Village right-of-way so we have no jurisdiction. With the house being vacant, I'm not even sure who you would ask if you wanted to volunteer to treat it. We don't want to see it spread either, but that is private property. We have our hands full of taking care of the trees on public property 😊.

We appreciate your extra set of eyes on things!

Chris

From: Leslie Newman <newmanle@gmail.com>
Sent: Saturday, October 12, 2019 9:56 AM
To: Christine Burns <christine@springlakevillage.org>
Subject: Yellow fungus

Hi Chris,

There is bright yellow fungus on the trunk of an large oak trree on Meridian at the corner of East Ann. I think the address is 233 Meridian. The house is unoccupied.

I looked up yellow fungus, and found that it is called yellow fungus. It is not toxic to people but kills trees. This is the first I've seen. The internet tells me it can be treated with a bleach solution.

Not sure how to proceed. I would not like to see it spead to our beautiful oaks.

Leslie

Christine Burns

From: Mark OBrien MD <markobrien@markobrienmd.com>
Sent: Monday, November 4, 2019 2:27 PM
To: Christine Burns
Subject: Tanglefoot Park

Caution! This email is from an external address and may contain links. Use caution when following links as they could open malicious web sites.

Hello,

I'm a resident at Tanglefoot park, at least as of last year.

I'm hoping to see the park re-open in 2020.

Please use this letter in strong support of reopening.

The folks at the park routinely patronize your local businesses and hope to repeat that in 2020.

I suggest that you send emails to all the remaining park members to gather additional support for reopening.

If you want to send the email of the list to me, I'll be happy to send out individual emails to the park members.

Thank You Very Much,

Mark OBrien MD

markobrien@markobrienmd.com

Cell: 616 550 9939

Office: 616 774 8200

Christine Burns

From: Christine Burns
Sent: Tuesday, October 15, 2019 12:22 PM
To: Karen Wolters
Subject: RE: Complaint

Hi Karen,

We totally understand that sometimes these things happen innocently enough with no malice attached. I appreciate you reaching out to me to let me know that you're working on removing the lights and stones. Your clearing of the invasive plants and tidying up of the pathway isn't so much a concern. The complaint that was received was more about the "unnatural" lighting and lining of a designated pathway. We do have some folks who have laid claim, so-to-speak, to the right of way between their property and the path. It proves challenging for us to tell one person they cannot do it, while allowing another to do so, even if it looks rather nice.

Thank you for addressing it and we understand that it may take you some time.

Fondly,

Chris

Christine Burns
Spring Lake Village Manager
102 W. Savidge
Spring Lake, MI 49456
P: 616.842.1393
F: 616.847.1393



From: Karen Wolters <kwolters9929@gmail.com>
Sent: Tuesday, October 15, 2019 12:12 PM
To: Christine Burns <christine@springlakevillage.org>
Subject: Complaint

Hello, Christine,

I got your letter yesterday regarding my property and the path to the Lakeside Trail. It is in fact my property and the trail is one that we have used for many years. I understand the complaint and will work to remove the stones that outline the path as well as the solar lights that have lit the trail. Just so you know, nothing was done knowingly to cause trouble or ignore codes. When we moved to the village five years ago I asked someone at the village if they had a problem with the path being there and was told it was OK. I have to admit that the path stones were added this year but prior, that path was there before we purchased. We have worked hard to remove all the yard debris, trash, junk vegetation like poison ivy, and invasive vines from the area and this has allowed the ivy and other wildflowers to thrive. During the summer months, you can barely see the path because of the thick vegetation. I carried every one of those stones to the path over the summer and please give me some time to get them all removed as they are pretty

heavy. It will take some time for nature to fill in the space but it will be done after winter, I assure you. Please let me know if you have further questions or concerns.

Karen Wolters

Christine Burns

From: Roger A. Bergman <rogerabergman@gmail.com>
Sent: Monday, October 28, 2019 12:02 PM
To: Christine Burns; Rebecca Hopp; John Nash; Pat McGinnis; Craig Bessinger; Bill Cargo; Gordon Gallagher
Subject: RE: Fw: GVSU Update on Dredging
Attachments: GVSU dredging.odt

Sorry about missing the attachment.

Roger

From: Eric-John Szczepaniak <szczepae@mail.gvsu.edu>
Sent: Saturday, October 26, 2019 4:50 PM
To: Jason Shamblin
Cc: Greg DeJong
Subject: GVSU Update on Dredging

Hello Director Shamblin,

I wanted to share with you and other leaders in Ottawa County that the GVSU Student Senate has resolved to oppose the Grand River Waterway Project and we will be working to get our faculty and administrators to oppose this as well as creating a recommendation to go to the Board of Trustees to get the official position of GVSU.

Attached is the memorandum that I sent to our faculty governance as well as the memo that I sent to the riverside communities that have not weighed in on this dangerous proposal to date.

Thank you,

President Eric-John Szczepaniak

--

[GVSU Student Body President 2019-2020](#)
[He/Him/His Pronouns \(what's this?\)](#)
Group Social Studies and Secondary Education
Board President, Michigan Center for Civic Education
(616) 406-5031



Sent from [Mail](#) for Windows 10

From: [Christine Burns](#)
Sent: Monday, October 28, 2019 11:46 AM
To: [Roger A. Bergman](#); [Rebecca Hopp](#); [John Nash](#); [Pat McGinnis](#); [Craig Bessinger](#); [Bill Cargo](#); [Gordon Gallagher](#)
Subject: RE: Fw: GVSU Update on Dredging

Hi Roger,

No attachment was included 😞.

Chris

From: Roger A. Bergman <rogerabergman@gmail.com>

Sent: Monday, October 28, 2019 11:35 AM

To: Rebecca Hopp <rhopp@ferrysburg.org>; John Nash <jnash@springlaketwp.org>; Pat McGinnis <pmcginnis@grandhaven.org>; Craig Bessinger <cbessinger@ferrysburg.org>; Christine Burns <christine@springlakevillage.org>; Bill Cargo <bcargo@ght.org>; Gordon Gallagher <ggallagher@springlaketwp.org>

Subject: Fwd: Fw: GVSU Update on Dredging

FYI

Roger Bergman

----- Forwarded message -----

From: **Stephanie Roelofs** <sroelofs@miottawa.org>

Date: Mon, Oct 28, 2019, 9:22 AM

Subject: Fw: GVSU Update on Dredging

To: County Commissioners <county.commissioners@miottawa.org>

Good morning,

Greg asked that I share the email below regarding dredging. Thank you.

From: Eric-John Szczepaniak <szczepae@mail.gvsu.edu>

Sent: Saturday, October 26, 2019 4:50 PM

To: Jason Shamblin

Cc: Greg DeJong

Subject: GVSU Update on Dredging

Hello Director Shamblin,

I wanted to share with you and other leaders in Ottawa County that the GVSU Student Senate has resolved to oppose the Grand River Waterway Project and we will be working to get our faculty and administrators to oppose this as well as creating a recommendation to go to the Board of Trustees to get the official position of GVSU.

Attached is the memorandum that I sent to our faculty governance as well as the memo that I sent to the riverside communities that have not weighed in on this dangerous proposal to date.

Thank you,

President Eric-John Szczepaniak

--

[GVSU Student Body President 2019-2020](#)

[He/Him/His Pronouns \(what's this?\)](#)

Group Social Studies and Secondary Education

Board President, Michigan Center for Civic Education

(616) 406-5031



Christine Burns

From: Heather DerVartanian <heathdervar@gmail.com>
Sent: Monday, October 7, 2019 7:01 PM
To: Christine Burns
Subject: Benches

The benches are in and I have attached two pictures for you to see them.

I think I will need another signature but haven't started that final paperwork yet. I will reach out when I have that done.

Thank you again for your help.

Jackson
Troop 14





Sent from my iPhone

Palliative Care and Hospice: Apples and Oranges?

We often like to say that when two things are radically different from each other, they are 'apples and oranges.' Palliative care and hospice care, like apples and oranges, are different things entirely. Here's a quick rundown on each one.

These specialties have less in common than what we think. They are often paired because both types of care can usually be given where a patient lives, be that in a facility of some sort or in a home. Both of these specialties can involve significant work with pain management. As a result, it is not uncommon for one doctor to be involved in both hospice and palliative care.

Most people know at least something about hospice care. Hospice is specifically designed to provide comfort-focused care, equipment and services in the last few months of life. The objective is to help patients stay comfortable and experience the end of life on their terms. It is also intended to provide support for family members and caregivers, relieving stress and helping them deal with the many unknowns.

Palliative care, on the other hand is a medical specialty that focuses on helping patients with the symptoms and stress of a serious illness. That could include, for example, pain, depression, shortness of breath, fatigue, constipation, nausea, loss of appetite, difficulty sleeping, anxiety and any other symptoms that may be causing distress. The goal is to improve quality of life for both patient and family. Palliative care serves as an extra layer of support to help patients understand their disease or condition and live more comfortably with it.

Palliative care is offered to people with any serious illness at any stage of disease, even at the time of initial diagnosis. This includes serious chronic illnesses such as COPD, heart diseases, kidney disease dementia and many others. Palliative care can be used to complement the work of a patient's medical team and the aggressive care they may be receiving for their condition.

North Ottawa Community Health System is very fortunate to have the expertise of Dr. Stuart VanderHeide, who is board certified in both Hospice and Palliative Care and the Medical Director of our programs. We also have an experienced nurse practitioner, Linda Bischoff, who focuses on palliative care. Talk to your physician if you feel that either palliative care or hospice care might be right for you or a loved one. Once we receive a referral, our team will schedule an evaluation and help you decide what resources best fit your situation.

Hospice Tree of Life

Hospice of North Ottawa Community invites you to honor or remember your loved ones during the holiday season by donating to the Tree of Life. Handcrafted dove ornaments will be labeled with your loved one's name and placed on the Tree of Life that will be displayed at the Tri-Cities Historical Museum during December.

Visit, supportnochs.org/tree-of-life/ for more information or to support with your donation.



DRAFT MINUTES

**Monday, October 21, 2019
7:00 P.M., Barber School
102 West Exchange Street
Spring Lake, Michigan**

1. Call to Order

President **Powers** called the meeting to order at 7:00 p.m.

2. Pledge of Allegiance

3. Roll Call

Present: Duer, Hanks, Miller, Petrus, Powers, TePastte, Van Strate.

Absent: TePastte

Motion by **Miller**, second from **Hanks**, to excuse the absence of TePastte.

Yes: 6 No: 0

4. Approval of the Agenda

Motion by **Van Strate**, second from **Duer**, to approve the agenda as presented.

Yes: 6 No: 0

5. Consent Agenda

A. Approved the payment of the bills (checks numbered 60789 to 60855 and electronic payments 67 to 71) in the amount of \$433,222.26.

B. Approved the minutes for the September 9, 2019 work session and the September 16, 2019 regular Council meeting

C. Approved November 11, 2019 as a working holiday for staff.

D. Approved the 1st Amendment to the Agreement with Savidge Four, LLC.

E. Approved budget adjustments as presented.

F. Approved a Muskegon-NOWS interconnection agreement.

- G. Approved an economic development agreement with the Grand Haven/Spring Lake/Ferrysburg Chamber of Commerce.
- H. Approved an agreement with Verplank Docks for the disposal of leaves.
- I. Approved the Master Plan implementation schedule as recommended by the Planning Commission.
- J. Approved the proposed amendment to the engineering services contract with Moore & Bruggink for the decommissioning of the Holiday Inn lift station.
- K. Approved the appointment of Mr. Eric Kaelin (WAWL) to perform programming for the PEG access channels in NW Ottawa County.

Motion by **Petrus**, second from **Duer**, to approve the Consent Agenda as presented.

Yes: 6 No: 0

6. General Business

- A. Presentation of Audit Findings** – Mr. Doug Vredevelde, Vredevelde Haefner, was present and reported that this was a good, clean opinion which was what you want to get when you have an audit done, there were no findings or material misstatements to report. Mr. Vredevelde shared highlights of the audit with Council noting a few changes from last fiscal year.
- B. Ottawa County Update** – Roger Bergman, Ottawa County Commissioner, presented Council with the updates from this past year. Robyn Afrik, the new Diversity, Equity & Inclusion Director for Ottawa County, introduced herself and gave Council an overview of what her roll was in this new position.
- C. Momentum Center Presentation** – Barbara Lee VanHorsen highlighted what the Momentum Center had to offer and how the tax dollars were being spent to help those with mental illness.
- D. Public Hearing to Consider Mass Gathering Ordinance**

Council welcomes and encourages the public to speak during the public hearing portions of the agenda. Those members of the public wishing to speak should wait to be recognized by the chair, after which time they should approach the podium and give their name and address for the record. All comments should be limited to three (3) minutes and will be entered into the permanent record (minutes) of the meeting.

Motion by **Hanks**, second from **Duer**, to open the Public Hearing at 7:42 p.m.

Yes: 6 No: 0

There being no public comment, motion by Petrus, second from Miller, to close the Public Hearing at 7:43 p.m.

Yes: 6 No: 0

Duer asked when the fee schedule would be adopted. **Sullivan** said that would be adopted with other fees by resolution.

Motion **Petrus**, second from **Hanks**, to adopt Ordinance 357 - an Ordinance to add Chapter 257 to provide a permitting procedure for Mass Gatherings.

Yes: 6 No: 0

E. Property Transfer from Savidge Three LLC (109 S. Jackson)

Subject: Savidge Three LLC has offered to donate property located at 109 S. Jackson Street to the Village of Spring Lake for the purpose of redevelopment.

Motion by **Hanks**, second from **Duer**, to approve the property transfer of 109 S. Jackson from Savidge Three LLC. to the Village of Spring Lake for the purpose of redevelopment.

Yes: 5 No: 1 (Van Strate)

F. Property Transfer to ARM

Subject: The Village solicited proposals for the sale and redevelopment of property located at 109 S. Jackson Street. One proposal was received from ARM for a purchase price of \$110,000 with a minimum reinvestment commitment of \$785,000.

Motion by **Petrus**, second from **Duer**, to accept the RFP from ARM for a purchase price of \$110,000 with a minimum reinvestment commitment of \$785,000.

Yes: 5 No: 1 (Van Strate)

Motion by **Hanks**, second from **Duer**, to approve a development agreement with ARM.

Yes: 5 No: 1 (Van Strate)

Motion by **Duer**, second from **Miller**, to designate the Village President as the signatory to execute the sale documents for 109 S. Jackson.

Yes: 5

No: 1 (Van Strate)

7. Department Reports

A. Village Manager

B. Clerk/Treasurer/Finance Director

C. OCSO

D. Fire

E. 911

F. DPW

G. Building

H. Water

I. Sewer

J. Minutes from Various Board & Committees

1. Parks & Recreation - 09/03/19

2. Planning Commission - 09/24/19 (draft)

3. DDA - 09/10/19

8. Old Business and Reports by the Village Council – No New Business

9. New Business and Reports by Village Council - Van Strate & Petrus asked to have the timer for the lights on Lakeside Trail to be reset.

10. Status Report: Village Attorney – No additions.

11. Statement of Citizens

Maria Priebe, 222 Prospect, spoke to Council regarding the tree she wanted removed from the Right of Way in front of her house and wanted a copy of the letter from the Tree Board.

Tom Craig, 319 Mark, asked what the status of Mill Point Park repairs were. President **Powers** said the current estimate was about \$1,000,000 to fix the damage that has occurred in the last 3 or 4 months, but the difficulty was that the water level was predicted to be higher next year so any fix that was applied now, might be washed out next year. Mr. Craig asked about results of a survey that was being circulated around the Village. President **Powers** said they were waiting on the results. Mr. Craig also asked who ARM was. President **Powers** explained that they were a local company wanting to redevelop 109 S Jackson and expand their business. Mr. Craig thanked Council member Miller for attending the Open House at Central Park.

Lee Schuitema, 408 W Exchange, said as a member of the Tree Board, he was not certain that a letter existed, any discussion and recommendation from the Tree Board would be in the Board minutes. Mr. Schuitema said the tree was healthy and on Village property, and there had been so many losses to the tree canopy in

the last 2 years due to disease, that cutting down a perfectly healthy tree to satisfy someone's pipe problem was not something they would approve. Mr. Schuitema said he had spoken with the DPW Director and found out that a liner could be inserted into the pipe to repair it unless it was an old clay tile, it had lived its life anyway and would fail whether the tree was cut down or not due to its age. Mr. Schuitema also commented on the 109 S. Jackson St. and said that if it was taken at face value, what was just passed, he was in favor of it, but if the fine print included what he had heard in the last little while, this was a railroad, not fair and being done under the table.

12. Adjournment

Motion by **Van Strate**, second from **Duer**, Village Council adjourned the meeting at 8:13 p.m.

Yes: 6 No: 0

Mark Powers, Village President

Maryann Fonkert, Deputy Clerk



Village of Spring Lake
Draft Council Work Session Minutes

October 14, 2019

7:00 p.m.

102 W Savidge Street (Upstairs Conference Room)
Spring Lake, MI 49456

President **Powers** called the meeting to order at 7:00 p.m.

1. Downtown Redevelopment (Power Point Presentation)

- 109 S. Jackson RFP
- Property Transfer of 109 S. Jackson (Agreement with Savidge Three, LLC)

Burns shared a presentation regarding the 109 S Jackson RFP which showed the estimated revenue from Kim VanKampen's development projects. **Burns** explained that those projects included the Lilly Mansion, new construction on Rachael's Way, Brooklyn Bagel, Bilz Pools & Spa, the Haight building, Epicurean Village and the pocket park which, when combined, are estimated to generate approximately \$82,000 in additional tax revenue. **Burns** also pointed out that concerns regarding parking have been looked at previously. A downtown business owner counted public parking spaces several years ago. In the Village, there were over 2,200 parking spots and only 2,300 people.

Council discussed the acceptance of 109 S. Jackson as a gift and the contingencies attached to the gift. They also discussed the proposed purchase of the property by ARM. **Hanks** shared that the DDA had been waiting for the results from the analysis before they made their recommendation of support. **Van Strate** asked if it would be going against the original intent to add an event center. **Burns** said that because it would be open to the public as a community center, this feels like it would be more in keeping with the intent. **Powers** asked how upset the developer would be if the redevelopment of Tanglefoot had to be put on hold due to something unforeseen. **Burns** said there was no timeline for the development to be done as long as the proceeds were set aside to be used for that project.

2. Conference Call with Howard Kohn, The Chesapeake Group

The Chesapeake Group was hired by the DDA/Village Council to perform a market analysis for downtown Spring Lake. Council's focus being Tanglefoot Park redevelopment while the DDA is taking a broader approach to redevelopment. Mr. Kohn's preliminary report is included in the agenda report and was shared with the DDA on Tuesday, October 8, 2019.

Mr. Kohn shared the findings of his preliminary analysis noting that the conclusions were that an event venue in Spring Lake could establish a viable market position

and the potential existed to be a focal point seven days of the week for the broader community and related activity. President **Powers** asked what the time line was for finishing the survey and when the final analysis would be done. **Burns** said the goal before closing the survey was to get 500 responses and they were at 350 now so she couldn't answer that definitively right now.

3. Veteran's Day Closure

Most residents assume that Village Hall is closed on Federal holidays. November 11, 2019 is a Federal holiday recognizing Veterans. Staff would like to continue the tradition of another "working holiday" whereas Village Hall is closed to the public, but staff still reports as normal. Staff would be allowed to wear jeans to work and the day would be spent entirely on records management and housekeeping.

Burns asked Council for permission to hold the annual "working holiday". **Council** had no objections.

4. 1st Amendment to Agreement

The property exchange between Savidge Four, LLC and the Village will transact shortly, however, the title company has pointed out that there should be a small exception based on the title history that was not included in the original legal description (it is a half-foot wide strip on the east edge of the pocket park which Savidge Four already owns). The amendment was distributed for Council review.

Burns explained this had been approved by Council last month, but a small strip of property was included in the legal description that was already owned by Savidge Four, LLC so the description had been amended and would need to be reapproved.

5. Master Plan Implementation Schedule

In order to obtain the Redevelopment Ready Community designation thru the MEDC, one of the many steps is to adopt a Master Plan Implementation Schedule. On September 24, 2019, the Planning Commission contemplated such and recommended approval of the schedule.

6. Mass Gathering Ordinance

This ordinance was publicly noticed for consideration at the October 21, 2019 Council Meeting. The ordinance and application were distributed for Council consideration.

Burns said they had 2 test runs using the guidelines of this ordinance and it seemed to work pretty well. **Council** was comfortable with the language of this Ordinance and ready to proceed.

7. Pedestrian Ordinance

Burns explained that a local ordinance needed to be legally adopted in order to put up signage and enforce vehicles to stop at pedestrian crosswalks.

Heather Baumgartner was present and asked Council to strongly consider adopting the Pedestrian Ordinance and purchasing the pedestrian crossing signage. Ms. Baumgartner's son was hit by a car on May 9, 2019 and had multiple injuries and she was concerned for the safety of all children.

Council agreed they would like to proceed with the ordinance adoption process.

8. Pedestrian Crossing Sign Purchase

Due to a car/pedestrian accident on May 9, 2019 at E. Savidge & Prospect, Council directed staff to work with MDOT on options to increase safety for pedestrians attempting to cross Savidge on their way to school. Those options were distributed for Council review.

9. Budget Adjustments (Marv Hinga)

Hinga went over the budget adjustments with Council. **Council** had no objections to the budget adjustments.

10. Audit Presentation (Marv Hinga)

Doug Vredevelde will be in attendance at the regular Council Meeting to present his findings of the 2018/2019 audit. The audit letter was distributed as was the audit documents.

Hinga went over the Audit with Council and explained that the biggest change was moving the Police Fund, which had previously been reported as a Special Revenue Fund and no longer met that definition would now need to be reported as a General Revenue Fund, because the Village was billed directly from Ottawa County for its portion of the Police contract.

11. Interconnection Agreement

Burns explained that this was missed on last month's Agenda after it had been discussed at the Work Session. **Council** agreed to add this to the Consent Agenda.

12. Lake Street Lift Station (Wally Delamater)

Council had requested that DPW Director Wally Delamater provide pictures of the proposed lift station prior to their approval. **Delamater** shared photos of the proposed Lake Avenue lift station and Moore & Bruggink's proposal options.

13. Economic Development Contract

Burns asked Council for approval of another 3-year contract with the Grand Haven Area Chamber of Commerce. **Council** felt that the Chamber was a great organization and resource.

14. Verplank Dock Leaf Agreement

The Village enjoys a relationship with Verplank Dock in order to dispose of our leaves each fall (as do the other 4 NW Ottawa County communities.) This contract is up for renewal every 5 years and was last approved on September 15, 2015.

Burns explained that all of the Northwest Ottawa Communities truck leaves over to Verplank's dock who mix them with the spoils from dredging the river and turn it into black dirt. **Council** agreed this was a good deal and could be added to the Consent Agenda.

15. Public, Educational and Government (PEG) Access Channels

There is currently no programming on our government access channel on Charter (Spectrum). Mr. Eric Kaelin (WAWL) has offered to handle the programming, free of charge, on behalf of the local municipalities. Our obligation would be to "feed" him news and information, much like we do for Facebook and Constant Contact.

Burns explained that there was no cost for this service, and it gave one more outlet for people. **Council** agreed.

16. Flood Plain Mapping Updates

FEMA is proposing updated flood plain hazard information for Lake Michigan and its tributaries. **Burns** shared FEMA's information for the updated flood plain hazard information with Council. These (voluminous) materials will remain at Village Hall for public review, or you may go to the following website to obtain the same information: <https://www.fema.gov/preliminaryfloodhazarddata>

17. Communications

- Board Opening Advertisement – **Burns** reported there were a few board openings coming up and had already received a couple applications.
- GHACVB Calendar (October)
- Library Calendar (October)
- Water Levels (Tribune Article and MME List Serve Comments)
- Wolters Trespass – **Burns** explained that the Parks Board had received a report of a trespass along the trail, so a letter had been sent to the resident. **Burns** said that rocks and solar lights had been added to create a path from their property to Lakeside Trail.

18. Miscellaneous

Burns shared that the DDA had received an application for a Façade grant from Weiss Chiropractic. **Burns** said that the plans looked great and they were looking at investing over \$80,000 in façade improvements.

Delamater reported that the Holiday Inn lift station project had been scheduled to take about 4 weeks but took 2 weeks just to go 75 feet because of everything they had encountered that had been buried. **Delamater** said that Moore & Bruggink were estimating that they would go about \$6,000 over budget and that due to the unforeseen difficulties, he recommended Council approve a change order. **Council** had no objections to placing the change order on the Consent Agenda.

19. Minutes

Minutes of the September 9, 2019 Work Session and September 16, 2019 regular meeting were distributed for review.

20. Public Comment

Maria & Ron Priebe, 222 Prospect, were present and asked Council for permission to remove a tree in the Village Right of Way because it was causing damage to their sewer line that runs to their home. **Powers** suggested that the Tree Board would be who they needed to present their request to. Mrs. Priebe said she had not been to the Tree Board yet because she was waiting for an opinion from another arborist. **Burns** said the Tree Board and Arborist had considered the Priebe's request and it was determined that the Maple trees were healthy and would not be removed and that this information had been shared with Mr. & Mrs. Priebe in numerous emails. **Powers** asked to have that determination sent to Council. **Burns** said she would get that information to them and suggested other options to resolve the Priebe's sewer issue, including repair to their sewer leed. Mrs. Priebe said they could not afford to replace their sewer line and their only choice was to get rid of the tree. **Powers** said he would take a look at it, but, unless the Tree Board's judgement had somehow been compromised, it was Council's policy to follow the Tree Board's recommendations.

Darcy Dye, 114 N. Fruitport Rd., suggested three pedestrian crossings that were unsafe and would be good to look into for signage. Dye also recommended that Council take a look at the art on the lift station boxes in Grand Rapids next time they were there and said she would like to see that considered here.

Lee Schuitema, as a member of the Tree Board said, in his opinion, if the plumber said the sewer line would not hold up to more boring, then the line was no good and needed to be replaced and would not be protected by taking out this tree. Dye said the trees were 2 beautiful maples in perfect condition.

21. Adjournment: There being no further business, the meeting adjourned at 8:46 p.m.

Mark Powers, Village President

Maryann Fonkert, Deputy Clerk