



Brighton City Council Meeting

Contact Information: City Hall • 200 N First St. • Brighton, Michigan 48116
(810) 227-1911 • www.brightoncity.org • info@brightoncity.org

This meeting will be conducted electronically.
Please visit the City website or the notice posted at City Hall for Zoom Meeting login instructions.

Regular Meeting January 21, 2021 – 7:30 p.m.

AGENDA

1. Call to Order
2. Pledge of Allegiance
3. Roll Call
4. Consider Approval of the Agenda
5. Consider Approval of Consent Agenda Items

Consent Agenda Items

- a. Approval of Minutes: [Study Session of January 7, 2021](#)
- b. Approval of Minutes: [Regular Session of January 7, 2021](#)

Correspondence

6. Call to the Public
7. Staff Updates
8. Updates from Councilmember Liaisons to Various Boards and Commissions

Public Hearing

9. [Conduct a Public Hearing and Consider Approval of Resolution #2021-03 “Approving the 1010 State Street Brownfield Plan,” with Clarification Being Added to Section 1.3 “Description of Costs to Be Paid for with Tax Increment Revenues” Per City Council Comments Made During the December 17, 2020 City Council Study Session](#)

New Business

10. Consider Approval of Reimbursement Agreement Related to the 1010 State Street Brownfield Plan
11. Discussion of Greater Brighton Area Chamber of Commerce Civic Event Application for the 2021 Farmers Market Season
12. [Approval of Tetra Tech Design Engineering Scope of Services for The Addition of Easterly Streets Improvements to the Grand River Phase 2 And Phase 3 Road Improvement Project in an Additional Amount of \\$209,200 with a not to Exceed Total of \\$329,200, Including The Related Budget Amendments in the Amount of \\$209,200 From the Fund Balance of the General Fund Major and Local Street Funds](#)

Other Business

13. Consider Entering into Closed Session to Receive a Written Attorney-Client Privileged Communication Pursuant to MCL 15.268(h) and to Discuss the Purchase or Lease of Real Property Pursuant to MCL15.268(d)
14. Call to the Public
15. Adjournment



City Council Study Session

200 N First St • City Hall Council Chambers • Brighton, Michigan 48116
(810)-227-1911 • www.brightoncity.org

This meeting was conducted electronically.

MINUTES OF THE STUDY SESSION OF THE BRIGHTON CITY COUNCIL HELD ON JANUARY 7, 2021

Call to Order

Mayor Pipoly called the Study Session to order at 6:30 p.m.

Roll Call

Present were Mayor Pipoly and Mayor Pro Tem Gardner, Councilmembers: Bohn, Emaus, Muzzin, Pettengill, and Tobbe (arrived at 6:37 p.m.), all of whom disclosed their locations. City Manager Nate Geinzer, City Clerk Tara Brown, Community Development Manager Mike Caruso, Finance Director Gretchen Gomolka, Human Resources Manager Michelle Miller, DPS Director Marcel Goch, Management Assistant Henry Outlaw, Police Chief Rob Bradford, DPS Superintendent Daren Collins, Compliance Officer Josh Bradley, Economic Development Coordinator Denise Murray, Attorney Paul Burns, and Attorney Jeff Alber. There were five persons in the audience.

Call to the Public

Mayor Pipoly opened the Call to the Public at 6:33 p.m. Hearing and seeing no comment, Mayor Pipoly closed the Call to the Public.

Receive Update on Donation Box Enforcement

Community Development Manager Caruso relayed a brief update to City Council on the donation box enforcement. Mr. Caruso stated the three locations in the City where the donation bins are permitted to be have been working diligently to empty the contents regularly but as many people are home during the pandemic there has been an increase in donations especially on the weekends.

Mayor Pro Tem Gardner thanked Mr. Caruso for the positive update. Councilmember Pettengill asked if Mr. Caruso could relay the amount that the community has donated to the bins. Mr. Caruso stated that it may be difficult to determine, however the non-profit companies that collect noted that the City of Brighton donation bins are the most prosperous, the best location is located at the Brighton Mall.

Mayor Pro Tem Gardner inquired about the status of Simple Recycling and when they anticipate collecting again. Manager Geinzer will provide an update to City Council but noted the company is having difficulty staffing the trucks needed to collect the donations. Councilmember Pettengill asked Mr. Geinzer to also provide how much money has been generated by contributions by City residents to Simple Recycling.

Receive Update on Social Districts and Consider Staff Direction

Management Assistant Outlaw shared a power point presentation on social districts, House Bill 5781, which allows for the consumption of alcohol in public areas. His research and analysis showed various cities that have implemented social districts and what they have found both positive and negative, how the cities chose to indicate the social district zones, and cup style and stickers to ensure enforcement is able to recognize allowable beverages.

Chief Bradford has contacted other Chiefs who have social districts within their cities. Petoskey was able to provide the best feedback.

Mayor Pro Tem Gardner noted how little space is left outdoors for people to gather either in an igloo or on patios. Ms. Gardner is in favor of investigating how the City of Brighton can move forward with creative solutions to help business owners who are hurting during these difficult times.

Councilmember Pettengill asked about cup size and stickers, how boundaries are defined, and if there is a sunset on the social district.

Councilmember Bohn relayed that his position has not changed since the discussions of social districts began in 2020 and stated he is not in favor of promoting alcohol use. However, Mr. Bohn stated that Tecumseh has the best approach if a social district is approved.

Councilmember Muzzin noted his total support and asked staff and police to bring back a plan.

Councilmember Emaus stated he is in favor, noting the discussion was tabled to 2021. Mr. Emaus would like the topic be brought back to City Council to help businesses and bars thrive to ensure economic health. Mr. Emaus also noted the social districts plan can be revoked at any time should it be abused.

Councilmember Tobbe stated that social districts can be a good idea but noted his concern over liability.

Mr. Geinzer stated City staff, working with City attorneys, will bring a plan back for City Council's consideration.

Call to the Public

Mayor Pipoly opened the Call to the Public at 6:42 p.m.

Susan Bakhaus would like to know how much has been sent to the City from Simple Recycling.

Hearing and seeing no additional comment, Mayor Pipoly closed the Call to the Public at 6:43 p.m.

Manager Geinzer will provide the total contributions from Simple Recycling donations at the next meeting.

Adjournment

Motion by Councilmember Tobbe, seconded by Councilmember Emaus to adjourn the study session at 7:19 p.m. **The motion carried without objection by roll call vote.**

Tara Brown, City Clerk

Shawn Pipoly, Mayor



Brighton City Council Meeting

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MINUTES OF THE REGULAR MEETING OF THE BRIGHTON CITY COUNCIL HELD ON JANUARY 7, 2021

1. Call to Order

Mayor Pipoly called the meeting to order at 7:30 p.m.

2. Pledge of Allegiance

3. Roll Call

Present were Mayor Pipoly and Mayor Pro Tem Gardner, Councilmembers: Bohn, Emaus, Muzzin, Pettengill, and Tobbe, all of whom disclosed their locations. City Manager Nate Geinzer, City Clerk Tara Brown, Community Development Manager Mike Caruso, Finance Director Gretchen Gomolka, Human Resources Manager Michelle Miller, DPS Director Marcel Goch, Management Assistant Henry Outlaw, Police Chief Rob Bradford, DPS Superintendent Daren Collins, Compliance Officer Josh Bradley, Economic Development Coordinator Denise Murray, Attorney Paul Burns, and Attorney Jeff Alber. There were nine persons in the audience.

4. Consider Approval of the Agenda

Motion by Councilmember Emaus, seconded by Mayor Pro Tem Gardner to approve the agenda as amended, adding items f and 8a and then moving item c from the consent agenda to new business as 8c. **The motion carried without objection by roll call vote.**

5. Consider Approval of Consent Agenda Items

Motion by Councilmember Emaus, seconded by Councilmember Muzzin to approve the consent agenda as amended. **The motion carried without objection by roll call vote.**

Consent Agenda Items

- a. Approval of Minutes: Study Session of December 17, 2020
- b. Approval of Minutes: Regular Session of December 17, 2020
- ~~c. Approval to Issue a Purchase Order for a Trailer Mounted Speed Alert and Messaging Sign to All Traffic Solutions in the Amount of \$17,995 (moved to New Business)~~
- d. Approval to Reset the Public Hearing on the 1010 State Street Brownfield Plan for January 21, 2021
- e. Approval to Move Precinct #2 Polling Location from City Hall to the Community Center
- f. Approval to Recognize Fund a Life NFP as a 501c3 Non-Profit for the Purpose of Obtaining a Charitable Gaming License, Resolution#2021-02

Correspondence

6. Call to the Public

Mayor Pipoly opened the Call to the Public at 7:36 p.m. Hearing and seeing no comment, Mayor Pipoly closed the Call to the Public.

7. Staff Updates

Chief Bradford congratulated Officer Bishop on his retirement beginning January 7, 2021 and for his outstanding 25 years of service and dedication to the City of Brighton. Chief Bradford wished Officer Bishop well on his next chapter.

Director Goch stated planning and communication for the North West Neighborhood Project will be coming out in next month to residents and businesses.

Director Gomolka reminded residents the winter taxes are due February 15, 2021. Payments are accepted in either of the two drop boxes located at City Hall, by mail, or online.

Clerk Brown thanked City Council for allowing the polling location for precinct two to be moved from City Hall to the Community Center. All voters effected will receive a new voter identification card and a letter explaining the move with a map.

City Manager Geinzer noted paycheck protection program loan information is available to businesses who seek additional support during these unprecedented times. Mr. Geinzer thanked the management team and staff at the City of Brighton for their hard work and dedication throughout the pandemic.

8. Updates from Councilmember Liaisons to Various Boards and Commissions

Councilmember Pettengill wished all a happy new year and asked Clerk Brown what lead to the decision to move the polling precinct from City Hall.

Clerk Brown relayed the move has been needed for some time to assure safety at City Hall for all voters and City staff, to increase parking for those wishing to vote, and most importantly to allow more space to process absentee ballots due to the increased amount of absentee voter turnout. This move to the Community Center will allow a large area for voters to comfortably vote on election day in a dedicated building and to give the hard working election workers space needed during the sixteen-hour work day.

Councilmember Bohn stated the Planning Commission met on December 21, 2020 to review the Running Lab business move to the Parsons Building from across the street. The Running Lab team heard the Planning Commissions' displeasure upon learning of intentions to paint the building. The Planning Commission also heard updates on proposed ordinances and approved the meeting schedule for 2021.

Councilmember Emaus thanked all who shopped local rather than purchasing from large stores online. Mr. Emaus also thanked Officer Bishop for his 25 years of service. The Brighton Veterans Memorial Committee installed nineteen pavers this fiscal year and Mr. Emaus thanked Mr. Steve Conway, Chairman for the BVMC, for raising and lowering the flag at the memorial throughout this difficult year.

Councilmember Tobbe thanked Officer Bishop for his service and wished him well in retirement.

New Business

8a. Consider Approval of the Replacement of the Community Center Boiler in an Amount Not to Exceed \$14,900 and to Authorize a Budget Amendment to Utilize Fund Balance of the General Fund

Director Goch introduced the agenda item, noting the technician was out after the call notifying City staff that the boiler was leaking. Based on the repairs needed, the technician advised that a replacement would better suit the scope of work as the current boiler is undersized for the building. The undersized boiler may have been contributing to the choppy heating in the building many noticed throughout the years. Currently, there are several space heaters in the building to deter pipes from freezing however the repair is needed as soon as possible to prevent further damage.

Councilmember Pettengill asked where the current boiler is located and if anything got wet when the boiler broke. Director Goch stated the boiler is located in utility closets within in the building, behind the boy scout storage areas. Mr. Goch also stated that nothing got wet but the boiler must be replaced soon so no damage occurs to the contents of the building.

Councilmember Pettengill asked if the new system would even out and heat the cold spots throughout the building. Mr. Goch stated that he is hopeful the new larger system would help heat the building more evenly.

Attorney Burns asked if competitive bids were obtained for the repair work as the Charter requires competitive bidding. Mr. Goch noted the company quoting the replacement had been obtained through a request for qualifications and is a vendor on the City of Brighton's list.

Councilmember Bohn asked if the City Attorney was satisfied that the City met the requirements set by the Charter. Attorney Burns indicated that he was satisfied.

Councilmember Emaus asked as owners of the building, is it not the City's duty to provide for the repairs of the building for its tenants and renters.

Motion by Councilmember Emaus, seconded by Councilmember Pettengill to approve the replacement of the Community Center boiler in an amount not to exceed \$14,900 and to authorize a budget amendment to utilize fund balance of the General Fund. **The motion carried without objection by roll call vote.**

8c. Approval to Issue a Purchase Order for a Trailer Mounted Speed Alert and Messaging Sign to All Traffic Solutions in the Amount of \$17,995

Councilmember Emaus asked for the agenda item to be moved from Consent to New Business over concern for funding however Chief Bradford clarified the funding is available.

Motion by Mayor Pro Tem Gardner, seconded by Councilmember Emaus to approve to issue a purchase order for a trailer mounted speed alert and messaging sign to All Traffic Solutions in the amount of \$17,995. **The motion carried without objection by roll call vote.**

9. Consider Approval of Bond Authorizing Resolution #2021-01 and Related Municipal Advisor Scope of Services for the 2021 Capital Improvements Bond Program

Manager Geinzer introduced the agenda item noting bond counsel Pat McGow and Warren Creamer are available to answer questions should City Council have more detailed inquiries about financing and terms.

City Council questioned some aspects of the budget process in association with the bond and made inquiries if the City utilizes a debt reserve fund. Councilmember Bohn questioned the bond mature date of 2021 on page 9 of the bond resolution. Mr. McGow confirmed that the maturation date is correct. Mr. Bohn then questioned if there was flexibility in respect to when the North West Neighborhoods will be completed relaying his concern if time lines run over. Mr. Creamer clarified particulars with bond financing.

Councilmember Emaus asked that a minor error be corrected on the resolution to reflect the correct time of the meeting from 7:00 p.m. to 7:30 p.m. but otherwise approved of the resolution and complemented Mr. McGow on the bond documents.

Motion by Councilmember Muzzin, seconded by Mayor Pro Tem Gardner to approve of bond authorizing resolution #2021-01 and related municipal advisor scope of services for the 2021 Capital Improvements Bond Program with a minor correction to the meeting time in the resolution. **The motion carried without objection by roll call vote.**

10. Discussion of 2021 Civic Event Fees and Related Staff Direction

Manager Geinzer introduced the agenda item in light of Council request and in light of the pandemic and how it has effected business owners and event organizers. Mr. Geinzer asked that City Council give City staff direction on implementing the previously approved civic event fees.

City Council discussed civic event fees and delaying the implementation of the fee schedule until 2022 due to the current pandemic and the financial effect it has had on event organizers and business owners. There were no events in 2021 and therefore no fees collected.

Motion by Councilmember Emaus, seconded by Councilmember Pettengill to postpone the implementation of the Civic Events reimbursement schedule until 2022. **The motion carried without objection by roll call vote.**

Other Business

11. Call to the Public

Mayor Pipoly opened the Call to the Public at 8:50 p.m. Hearing and seeing no comment, Mayor Pipoly closed the Call to the Public.

12. Adjournment

Motion by Councilmember Tobbe, seconded by Councilmember Emaus to adjourn the meeting at 8:51 p.m. **The motion carried without objection by roll call vote.**

Tara Brown, City Clerk

Shawn Pipoly, Mayor

DRAFT



City of Brighton

REPORT FROM THE CITY MANAGER TO CITY COUNCIL

January 21, 2021

SUBJECT: CONDUCT PUBLIC HEARING AND CONSIDER APPROVAL OF RESOLUTION #2021-03 APPROVING THE 1010 STATE STREET BROWNFIELD PLAN

ADMINISTRATIVE SUMMARY

On December 15th, the Brownfield Redevelopment Authority (BRA) unanimously approved the 1010 State Street Brownfield Plan and referred it to City Council for consideration and a public hearing, which has been scheduled for this evening.

Below are a few highlights of the Brownfield Plan and some of the benefits of this public/private collaboration:

- **Plan Highlights:**
 - Public/Private Collaboration – the building abatement and demolition is supported by \$150,000 in private monies and an approximate \$254,000 advancement to the BRA from the City. The City will be reimbursed, plus interest, through Tax Increment Revenues (TIR).
 - This is an investment of City resources, not an expenditure. The City will earn 5%, vs. the 0.15% we currently earn.
 - Due to the expected exponential growth in taxable value, the plan duration is estimated at three years following completion of redevelopment. This is due to 100% TIR capture to accelerate reimbursement to the City.
 - Due to the expected exponential growth in taxable value, there is an exceptional opportunity to seed a Local Brownfield Revolving Fund (LBRF), which the BRA embraced. This revolving fund could be used to assist other challenging redevelopment projects with brownfield eligible activities.
- **Blight Mitigation:**
 - The Northwest Neighborhoods have been plagued by this building for far too long. Sometimes collaboration, such as provided in the recommended Brownfield Plan, is the most effective way to get mutually beneficial results in an expeditious manner.
 - Neighborhood improvement will be immediate and may have a positive impact on taxable value and possibly improve ownership/rehabilitation interest in the neighborhood. Blight removal and the coming capital improvements could be a major boost for this neighborhood.
- **Risk Management:**
 - We have had multiple public safety challenges at this site for years and saw matters escalate when kids were out of school during the early months of the pandemic. Getting this building down removes a public nuisance and magnet for ill intentions.
 - Mitigates the potential of something bad happening and the City possibly being pulled into a lawsuit.
- **Cost Avoidance:**
 - PD can redirect resources with reduced directed patrols at this site.
 - Code enforcement can redirect attention elsewhere.



City of Brighton

REPORT FROM THE CITY MANAGER TO CITY COUNCIL

January 21, 2021

- The attorney costs alone to pursue a legal process compelling the demolition of this building could exceed the costs of the recommended investment, let alone the staff time that would be involved. With a strong developer progressing on development plans and moving towards Final PUD consideration, this strategy would be ill advised and could inadvertently harm redevelopment efforts at the site.
- Other Notes and Considerations:
 - This Brownfield collaboration pales in size and scope to common brownfield projects across the state and country. Although this is a relative first for the City, it is using the Act as intended. This Brownfield Plan also allows the City a chance to pilot this type of collaboration before it considers going all in on any potential future large project.
 - The groundwater located below this site is contaminated with Trichloroethylene (TCE) from an offsite historical manufacturing facility. This contaminated groundwater does not pose a health or environmental risk during the demolition phase of this Brownfield project. However, TCE in the groundwater in this area creates a risk for the migration of contaminated air travelling through the soils to enter future buildings. This process is called vapor intrusion. Vapor intrusion risks can be mitigated through the installation of sub-slab depressurization systems that would ensure contaminated air does not enter buildings. Any subsequent redevelopment of this site will need to address this issue.
 - There will be two agreements that will accompany the Brownfield Plan: 1) A performance agreement between the BRA, the Property Owners, Developer, and the City and 2) a reimbursement agreement between the BRA and the City related to the advancement and the reimbursement, plus interest, of the advancement of funds.
- The attached Brownfield Plan was assembled with the assistance of Fishbeck and reviewed by the City's Bond Counsel.

RECOMMENDATION

It is the recommendation of Staff that City Council conduct a Public Hearing and consider approval of Resolution #2021-03 "Approving the 1010 State Street Brownfield Plan," with clarification being added to Section 1.3 "Description of Costs to be Paid for with Tax Increment Revenues" per City Council comments made during the December 17, 2020 City Council Study Session.

Prepared by: Nate Geinzer, City Manager

Reviewed by: Mike Caruso, Community Development Manager

Approved by: Nate Geinzer, City Manager

Attachments: 1010 State Street Brownfield Plan
Resolution #2021-03



BROWNFIELD PLAN
West Village of Brighton

City of Brighton
Brownfield Redevelopment Authority

Prepared for:
The City of Brighton

Prepared with the assistance of:
Fishbeck
1515 Arboretum Drive SE
Grand Rapids, Michigan 49546
616-464-3876

Approved by the City of Brighton Brownfield Redevelopment Authority on _____

Approved by the Brighton City Council on _____

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FIGURES

Figure 1	Legal Description and Map of Eligible Property
Figure 2	Property Location within the City of Brighton

TABLES

Table 1	Summary of Eligible Activity Costs and Schedule
Table 2	Tax Increment Revenue Capture
Table 3	Tax Increment Revenue Reimbursement Allocation

ATTACHMENTS

Attachment A	Conceptual Renderings
Attachment B	Environmental Data Tables and Maps
Attachment C	Brownfield Plan Resolution(s)
Attachment D	Reimbursement Agreement

BROWNFIELD PLAN

1.0 CITY OF BRIGHTON BROWNFIELD PLAN

The Brighton City Council established the City of Brighton Brownfield Redevelopment Authority (“CBBRA”) in 1998 pursuant to the Brownfield Redevelopment Financing Act, 1996 PA 381, as amended (Act 381). The CBBRA was established to facilitate redevelopment of properties that may be contaminated, blighted, functionally obsolete, historic, and/or owned by the county or State of Michigan as a result of foreclosure or tax reversion.

1.1 Proposed Redevelopment and Future Use for Each Eligible Property

This Brownfield Plan (“Plan”) pertains to the property located at 1010 State Street, Brighton, Livingston County, Michigan (the “Property”), Parcel ID Numbers 4718-30-300-018 & 4718-30-305-073. The 10.5-acre Property will be redeveloped by S.R. Jacobson Development (the “Developer”) with approximately 140 townhome-style residential units. The development will fill a need for “missing middle” housing in Brighton. Each unit will feature a one or two stall garage, laundry, and amenities such as nine-foot ceilings and master suites. Some units will have universally accessible appliances. Greenspace, a playground, a fitness center, a community building with free Wi-Fi, and the Property’s walkable distance from Brighton’s downtown (less than half a mile away) will help attract residents. Walkways between buildings will facilitate social interaction. The development’s exterior design respects the surrounding residential neighborhood. The project is consistent with the City of Brighton’s (“City”) master plan and complements the transitional space between downtown businesses and the adjacent neighborhood of single-family homes. The total anticipated investment for this development is \$20 million to \$32 million. The more conservative \$20 million estimate has been used to estimate capturable taxes in this Plan.

The mission of the CBBRA and this Plan is to facilitate redevelopment and reuse of idle properties in the City. The Plan will help encourage safe reuse of these properties and provide the necessary resources to make them competitive for redevelopment. Providing attractive properties for new or expanding businesses, residential development, and recreation facilities is a top priority for the City.

1.2 Eligible Property Information

To qualify for CBBRA support and brownfield incentives, property must be an “eligible property” as defined by Act 381. This includes property that is or was used for commercial, industrial, public, or residential purposes, and:

- The property meets the definition of a “facility” under Part 201 or “site” pursuant to Part 213 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), *OR*
- The property meets the definition of functionally obsolete, blighted, or a historic resource under Act 381 *OR*
- The property is owned by or under control of the county or state land bank authority *OR*
- The property is adjacent or contiguous to a site, facility, functionally obsolete, blighted, historic, or land bank authority-owned property and its inclusion in the brownfield plan will increase the property’s captured taxable value.

Nederveld conducted a Baseline Environmental Assessment (BEA) in February 2015. As part of the BEA, Nederveld noted the presence of groundwater contamination at the Property from an off-site groundwater contamination plume. Groundwater contaminants include 1,1,1-trichloroethane, trichloroethylene (TCE) and vinyl

chloride at concentrations in excess of the Michigan Department of Environment, Great Lakes and Energy (EGLE) Generic Residential Cleanup Criteria (GRCC) developed pursuant to Part 201 of Public Act 451, 1994, as amended (“Part 201”). Based on the documented presence of contaminants at concentrations exceeding EGLE Part 201 GRCC, the Property is a “facility” pursuant to Part 201.

Because of the Property’s “facility” status, the Property is considered an “eligible property” as defined by Act 381, Section 2.

Maps depicting the location and layout of the Property are attached as Figures 1 and 2. Environmental data tables and information related to the groundwater contamination is provided in Attachment B.

1.3 Description of Costs to Be Paid for With Tax Increment Revenues

The CBBRA seeks reimbursement from available local tax increment revenues (TIR) for eligible activities at the Property including demolition and asbestos abatement (including a 15% contingency), interest (not to exceed 5% per year), Plan preparation, the CBBRA’s administration fee, and deposits into the Brighton Local Brownfield Revolving Fund. The table below provides an eligible activity cost summary.

Local-Only Eligible Activities Costs and Schedule		
Eligible Activities	Cost	Completion Season/Year
Non-Environmental Activities		
<i>Building Demolition and Asbestos Abatement</i>	\$254,000	Spring 2021
<i>Brownfield Plan Preparation</i>	\$4,000	Fall 2020
Eligible Activities Sub-Total	\$258,000	
Administration	\$30,000	2022-2026
Contingency (15%)	\$38,100	Spring 2021
Interest (5%)	\$25,453	2021-2023
Local Brownfield Revolving Fund (LBRF)	\$296,100	2024-2026
Eligible Activities Total Costs	\$647,653	

1.4 Summary of Eligible Activities

The CBBRA intends to use local TIR from the project to reimburse the cost of certain eligible activities. Eligible activities included in this Plan as defined in MCL 125.2652 of Act 381 consist of the following:

Plan Preparation: To implement tax increment financing for this Project under Public Act 381 of 1996, as amended, the preparation and development of this Plan is required.

Demolition: The Property contains a 59,118 sq. ft. blighted one-story school building. Demolition of the structure is needed to facilitate Property redevelopment.

Asbestos Abatement: Prior to building demolition, asbestos must be abated in accordance with applicable regulatory guidelines.

Contingency: 15% contingency for asbestos abatement and demolition activities.

Interest: 5% simple interest on unreimbursed eligible activities costs will be captured yearly.

CBBRA Administration: The CBBRA will be responsible for the administration of this Plan. Administrative fees have been included in this Plan to reimburse the CBBRA for costs incurred.

Local Brownfield Revolving Fund (LBRF): Taxes may be captured for a period of up to five years after the City is reimbursed for eligible activities, or when excess captured taxes equal the total of the cost of eligible activities, whichever occurs first. The LBRF can be utilized by the CBBRA to pay for eligible activities for future projects.

1.5 Estimate of Captured Taxable Value and Tax Increment Revenues

For the purposes of this Plan, the initial taxable value is the value of the eligible Property in 2021. The estimated taxable value of the eligible Property for 2021 is \$726,750. The taxable value is expected to increase to \$4,500,000 in 2022 and \$9,000,000 in 2023, after completion of the development. This Plan assumes a 1% annual increase in the taxable value of the eligible Property after full buildout. Initial capture is anticipated to begin in 2022.

The estimated captured taxable value for the redevelopment by year and in aggregate for each taxing jurisdiction is depicted in tabular form (Table 2: Tax Increment Revenue Capture). Actual taxable values and TIR may vary year to year based on economic and market conditions, tax incentives, building additions, and property improvements, among other factors.

A summary of the estimated reimbursement schedule by year and in aggregate is presented as Table 3: Tax Increment Revenue Reimbursement Allocation.

1.6 Method of Financing and Description of Advances Made by the Municipality

The Developer is expected to contribute \$150,000 towards the cost of the eligible activities that will not be reimbursed with tax increment revenues. The City of Brighton will advance the remaining costs of the eligible activities to the CBBRA, currently estimated at \$254,000, to be reimbursed from tax increment revenues.

1.7 Maximum Amount of Note or Bonded Indebtedness

Bonds will not be issued for this project.

1.8 Duration of Brownfield Plan

Total plan duration is anticipated to be three years. The Plan will begin capture in 2022 and shall be in effect until sufficient tax increment revenues have been captured to pay to reimburse the cost of the eligible activities, plus an additional 2 years to fund the LBRF. Reimbursement to the City of Brighton for its advance to the CBBRA is projected to be completed in the second year. The CBBRA anticipates collecting TIR for its LBRF in the second and third year of the Plan.

1.9 Estimated Impact of Tax Increment Financing on Revenues of Taxing Jurisdictions

The initial taxable value of the Property in 2021 is expected to be \$726,750. Local taxing jurisdictions will receive revenues based on this taxable value until the City has been reimbursed for eligible activities and the City has collected TIR for its LBRF. The Brighton School debt millage is not eligible for capture and payments based on the

increased property value will begin immediately. Other taxing jurisdictions will see substantially increased tax revenues after TIR collection for eligible activities is finished.

1.10 Legal Description, Property Map, Statement of Qualifying Characteristics, and Personal Property

The property tax ID number is 4718-30-300-018. Property maps and the Property's legal description are found in Figures 1 and 2.

1.11 Estimates of Residents and Displacement of Individuals/Families

No residents or families will be displaced because of the Project.

1.12 Plan for Relocation of Displaced Persons

Not applicable.

1.13 Provisions for Relocation Costs

Not applicable.

1.14 Strategy for Compliance with Michigan's Relocation Assistance Law

Not applicable.

1.15 Other Material that the Authority or Governing Body Considers Pertinent

Developer investment will result in a substantial increase in tax base, resulting in significant economic benefit to the community.

Figure 1

Legal Description and Map of the Eligible Property

LEGAL DESCRIPTION

THE LAND REFERRED TO IN THIS COMMITMENT, SITUATED IN THE COUNTY OF LIVINGSTON, CITY OF BRIGHTON, STATE OF MICHIGAN, (PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY) IS DESCRIBED AS FOLLOWS:

PARCEL 1: (AS PROVIDED AND SURVEYED)

LOT 210, PLAT OF SMITH AND MCPHERSON'S ADDITION TO THE VILLAGE (NOW CITY) OF BRIGHTON, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 1 OF PLATS, PAGE 20A.

TAX ITEM NO. 18-30-305-073

PARCEL 2: (AS PROVIDED)

A PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 SECTION 30, TOWN 2 NORTH, RANGE 6 EAST, CITY OF BRIGHTON, LIVINGSTON COUNTY, MICHIGAN, BEGINNING AT THE NORTHEAST CORNER OF LOT 205 SMITH AND MCPHERSON'S ADDITION TO THE CITY OF BRIGHTON; THENCE NORTH 379.17 FEET; THENCE WESTERLY 551.5 FEET TO THE WEST LINE OF SAID SECTION 30; THENCE SOUTH 382.9 FEET ALONG SAID SECTION LINE; THENCE EAST 551.5 FEET TO THE POINT OF BEGINNING.

ALSO;

BEGINNING AT A POINT 379.17 FEET NORTH OF THE NORTHEAST CORNER OF LOT 205, PLAT OF SMITH AND MCPHERSON'S ADDITION TO THE CITY OF BRIGHTON; THENCE NORTH 445.17 FEET TO THE NORTHWEST CORNER OF LOT 219 OF SAID SMITH AND MCPHERSON'S ADDITION; THENCE WESTERLY 551.5 FEET TO THE WEST LINE OF SAID SECTION 30; TOWN 2 NORTH, RANGE 6 EAST, CITY OF BRIGHTON, LIVINGSTON COUNTY, MICHIGAN; THENCE SOUTH 448.9 FEET ALONG THE WEST LINE OF SAID SECTION 30; THENCE EAST 551.5 FEET TO THE POINT OF BEGINNING.

TAX ITEM NO. 18-30-300-018

PARCEL 2 DESCRIPTION (AS SURVEYED):

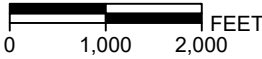
A PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 SECTION 30, TOWN 2 NORTH, RANGE 6 EAST, CITY OF BRIGHTON, LIVINGSTON COUNTY, MICHIGAN, BEGINNING AT THE NORTHEAST CORNER OF LOT 205 "SMITH AND MCPHERSON'S ADDITION TO THE CITY OF BRIGHTON"; THENCE S89°49'39"W 553.56 FEET ALONG SAID SUBDIVISION LINE TO THE EASTERLY LINE OF GENOA TOWNSHIP AND THE EASTERLY LINE OF "HEALY AND DILLOWAY SUBDIVISION" AS MONUMENTED; THENCE ALONG SAID EASTERLY LINE N00°00'57"E 832.11 FEET TO AN ESTABLISHED PERE MARQUETTE RAILROAD RIGHT-OF-WAY POST; THENCE S89°22'03"E 553.36 FEET TO THE NORTHWEST CORNER OF LOT 219 "SMITH AND MCPHERSON'S ADDITION TO THE CITY OF BRIGHTON" AS MONUMENTED; THENCE ALONG THE WESTERLY LINE OF "SMITH AND MCPHERSON'S ADDITION TO THE CITY OF BRIGHTON" S00°00'00"W 824.34 FEET TO THE POINT OF BEGINNING.

NOTE:

LEGAL DESCRIPTION WAS PROVIDED BY OWNER AND BASED ON ALTA SURVEY BY NEDERVELD DATED 03/24/2015.



SITE LOCATION MAP



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Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Parcel ID 4718-30-300-018
1010 State Street, Brighton, Livingston County, Michigan

Brownfield Plan


PROJECT NO.
201341

FIGURE NO.
1

Figure 2

Map of the Eligible Property

LEGEND

 Approximate Property Boundary



PLOT INFO: Z:\2020\1341\CAD\GIS\mapdoc\FIG02_SITE_MAP.mxd Date: 11/3/2020 9:05:27 AM User: acschwaller

SITE MAP

NORTH

0 100 200 FEET

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community



Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Parcel ID 4718-30-300-018
1010 State Street, Brighton, Livingston County, Michigan
Brownfield Plan

PROJECT NO.
201341

FIGURE NO.
2

Table 1

Summary of Eligible Activity Costs and Schedule

Table 1 - Summary of Eligible Activities Costs
 1010 State Street, Brighton, Livingston County, Michigan

Eligible Activities	Incurred Costs	Total Reimbursable Tax Capture	Total TIF Capture
		Local Only Act 381 Environmental Eligible Activities	
Non-Environmental Activities			
<i>Building Demolition and Asbestos Abatement*</i>	\$254,000	\$254,000	\$254,000
Brownfield Plan Preparation			
Brownfield Plan Preparation	\$4,000	\$4,000	\$4,000
Eligible Activities Sub-Total	\$258,000	\$258,000	\$258,000
Contingency (15%)*	\$38,100	\$38,100	\$38,100
Interest (5%)	\$25,453	\$25,453	\$25,453
City of Brighton BRA Administration			\$30,000
City of Brighton LBRF			\$296,100
Total	\$321,553	\$321,553	\$647,653

* Eligible Activities for contingency calculation

Table 2

Tax Increment Revenue Capture

Table 2 - Estimate of Total Incremental Taxes Available for Capture
 1010 State Street, Brighton, Livingston County, Michigan

Estimated Taxable Value (TV) Increase Rate:		1%							
Plan Year		1	2	3	4	5	6	TOTAL	
Calendar Year		2020	2021	2022	2023	2024	2025		
Base Taxable Value	\$	726,750	726,750	726,750	726,750	726,750	726,750	\$ -	
Estimated New TV	\$	-	-	4,500,000	9,000,000	9,090,000	9,180,900	\$ -	
Incremental Difference (New TV - Base TV) ¹	\$	-	-	3,773,250	8,273,250	8,363,250	8,454,150	\$ -	
School Capture									
	Millage Rate								
State Education Tax (SET)	6.00000							\$ -	
School Operating Tax	18.00000							\$ -	
School Total	24.0000							\$ -	
Local Capture									
	Millage Rate								
City Operating	15.00930	\$ -	\$ -	\$ -	56,634	124,176	125,527	126,891	\$ 433,227
Streets	2.45850	\$ -	\$ -	\$ -	9,277	20,340	20,561	20,785	\$ 70,962
Public Safety	0.37330	\$ -	\$ -	\$ -	1,409	3,088	3,122	3,156	\$ 10,775
PA 359 Milage	0.10170	\$ -	\$ -	\$ -	384	841	851	860	\$ 2,935
LESA	2.25860	\$ -	\$ -	\$ -	8,522	18,686	18,889	19,095	\$ 65,192
LESA-Voted	1.01010	\$ -	\$ -	\$ -	3,811	8,357	8,448	8,540	\$ 29,155
Count Allocated	3.27650	\$ -	\$ -	\$ -	12,363	27,107	27,402	27,700	\$ 94,573
Brighton Fire Authority	0.88230	\$ -	\$ -	\$ -	3,329	7,299	7,379	7,459	\$ 25,467
County Ambulance	0.29235	\$ -	\$ -	\$ -	1,103	2,419	2,445	2,472	\$ 8,438
HCMA- Parks	0.21170	\$ -	\$ -	\$ -	799	1,751	1,771	1,790	\$ 6,110
Veterans Relief	0.11270	\$ -	\$ -	\$ -	425	932	943	953	\$ 3,253
Brighton Fire Authority	1.48330	\$ -	\$ -	\$ -	5,597	12,272	12,405	12,540	\$ 42,814
Brighton Library	0.65490	\$ -	\$ -	\$ -	2,471	5,418	5,477	5,537	\$ 18,903
Brighton Library- Voted	0.21530	\$ -	\$ -	\$ -	812	1,781	1,801	1,820	\$ 6,214
Local Total	28.3406	\$ -	\$ -	\$ -	106,936	234,468	237,019	239,595	\$ 818,019
Non-Capturable Millages									
	Millage Rate								
Brighton School Debt	7.10000	\$ -	\$ -	\$ -	26,790	58,740	59,379	60,024	\$ 204,934
Total Non-Capturable Taxes	7.1000	\$ -	\$ -	\$ -	26,790	58,740	59,379	60,024	\$ 204,934
¹ Assumes 1% annual increase for inflation									
Total Tax Increment Revenue (TIR) Available for Capture	\$	\$ -	\$ -	\$ -	106,936	234,468	237,019	239,595	\$ 818,019

Table 3

Tax Increment Revenue Reimbursement Allocation

Table 3 - Estimate of Total Incremental Taxes Available for Reimbursement
1010 State Street, Brighton, Livingston County, Michigan

Maximum Reimbursement	School & Local Taxes
State	\$ -
Local	\$ 321,553
TOTAL	\$ 321,553
EGLE	N/A
MSF	N/A

Estimated Years of Capture: 5 total (including LBRF)

Estimated Capture	\$ 321,553
BRA Administrative Fee	\$ 30,000
State Brownfield Redevelopment Fund	\$ -
Local Brownfield Revolving Fund	\$ 296,100
Total	\$ 647,653

	2020	2021	2022	2023	2024	TOTAL
Total State Incremental Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
State Brownfield Redevelopment Fund (50% of SET)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
State TIR Available for Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Local Incremental Revenue	\$ -	\$ 106,936	\$ 234,468	\$ 237,019	\$ 239,595	\$ 818,019
BRA Administrative Fee	\$ -	\$ 9,000	\$ 9,000	\$ 9,000	\$ 3,000	\$ 30,000
Local TIR Available for Reimbursement	\$ -	\$ 97,936	\$ 225,468	\$ 228,019	\$ 236,595	\$ 788,019
Total State & Local TIR Available	\$ -	\$ 97,936	\$ 225,468	\$ 228,019	\$ 236,595	\$ 788,019
	Beginning Balance					
Reimbursement Balance	\$ 296,100	\$ -	\$ 296,100	\$ 310,905	\$ 223,617	\$ 0
<hr/>						
Pre-Approved Environmental Costs						
State Tax Reimbursement						\$ -
Total EGLE Reimbursement Balance						\$ -
Local Only Costs						
Local Tax Reimbursement	\$ 296,100	\$ -	\$ 296,100	\$ 310,905	\$ 223,617	\$ 321,553
Interest (5%)	\$ 25,453	\$ 14,805	\$ 10,648	\$ 0		
Total Local Only Reimbursement Balance		\$ 310,905	\$ 223,617	\$ 0		\$ -
Total Annual Reimbursement	\$ 321,553	\$ -	\$ 97,936	\$ 223,617	\$ -	\$ 321,553

LOCAL BROWNFIELD REVOLVING FUND

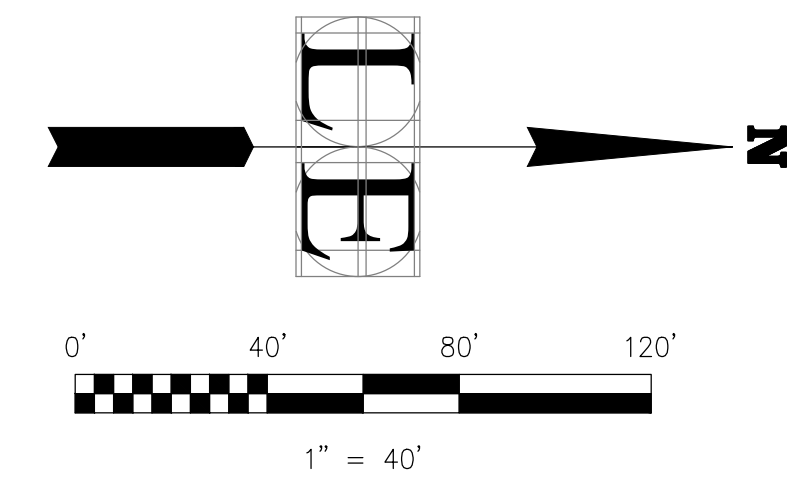
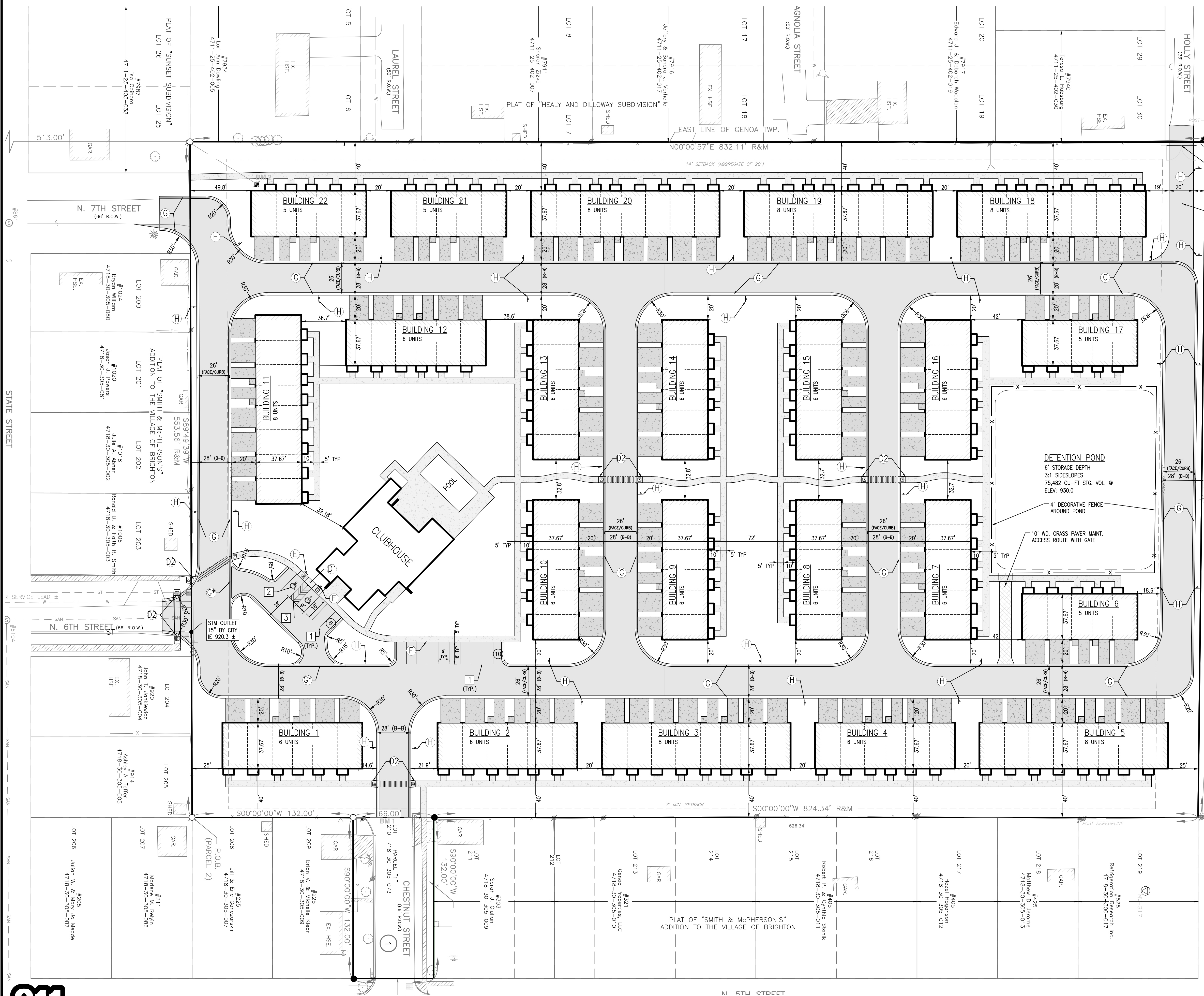
LBRF Deposits *						
State Tax Capture	\$ -					\$ -
Local Tax Capture	\$ 296,100			\$ 1,851	\$ 228,019	\$ 66,229
Total LBRF Capture	\$ 296,100					\$ 296,100

* Up to five years of capture for LBRF Deposits after eligible activities are reimbursed. May be taken from Local TIR only.

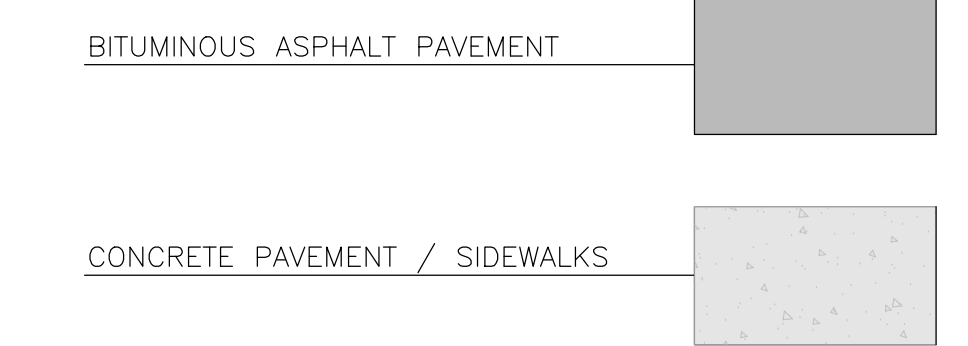
Attachment A

Conceptual Renderings

SITE LAYOUT



PROPOSED PAVEMENT LEGEND:



KEYED PAVEMENT MARKINGS:

- 1 4" SINGLE SOLID LINE, WHITE
- 2 PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY, BLUE ADA COMPLIANT
- 3 4" SINGLE SOLID LINES, BLUE, 45° CROSS HATCH PATTERN (2" O.C.) WITH BORDER, ADA COMPLIANT

ADA RAMP KEYED NOTES:

- R ADA COMPLIANT RAMP
- L ADA COMPLIANT RAMP LANDING AREA

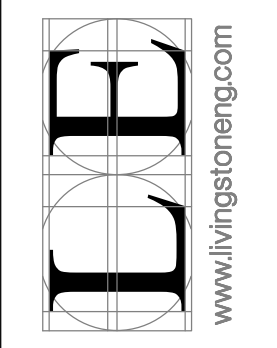
KEYED NOTES:

- D1 SIDEWALK RAMP - MDOT TYPE P, SEE DETAIL D1 ON SHEET C7.0
- D2 SIDEWALK RAMP - MDOT TYPE R, SEE DETAIL D2 ON SHEET C7.0
- F BARRIER FREE SIGN WITH R7-B, SEE DETAIL E ON SHEET C7.0
- E CURB FACE WALK AT PROPOSED PAVEMENT, SEE DETAIL F ON SHEET C7.0
- G MOUNTABLE CONCRETE CURB, SEE DETAIL G ON SHEET C7.0
- M MDOT TYPE M CONCRETE CURB, SEE DETAIL M ON SHEET C7.0
- H "FIRE LANE, NO PARKING" SIGN, AS DIRECTED BY BRIGHTON AREA FIRE DEPT.

GENERAL NOTES:

1. ALL UTILITY COMPANIES SHALL BE CONTACTED PRIOR TO CONSTRUCTION AND ALL UTILITIES LOCATED. ANY DISCREPANCIES OR CONFLICTS SHALL BE REPORTED TO ENGINEER FOR RESOLUTION PRIOR TO COMMENCING CONSTRUCTION.
2. ALL SIDEWALK RAMP TO MEET CURRENT ADA GUIDELINES AND SPECIFICATIONS.
3. ALL DIMENSIONS TO CURB ARE MEASURED FROM BACK OF CURB UNLESS OTHERWISE NOTED.
4. UNDERGROUND ELECTRIC & GAS CONNECTION WILL BE PROVIDED AS DETERMINED BY UTILITY COMPANY.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF BRIGHTON & LIVINGSTON COUNTY STANDARDS AND SPECIFICATIONS.
6. ON-SITE STREETS WILL BE PRIVATE.
7. NO DUMPSTERS ARE PROPOSED ON SITE. UNITS TO HAVE INDIVIDUAL PICKUP FOR GARBAGE SERVICE.
8. THE ADDRESS OF EACH BUILDING SHALL BE SHOWN WITH A MINIMUM OF 4" HIGH LETTERS OF CONTRASTING COLORS AND BE CLEARLY VISIBLE FROM THE STREET. THE LOCATION AND SIZE SHALL BE VERIFIED PRIOR TO INSTALLATION.
9. FINAL LOCATION OF FIRE LANE SIGNS TO BE SHALL BE PLACED AS DIRECTED BY THE BRIGHTON AREA FIRE AUTHORITY.
10. ALL SIDEWALKS ARE 5 FT WIDE UNLESS OTHERWISE NOTED.

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LIVINGSTON ENGINEERING
 CIVIL ENGINEERING SURVEYING PLANNING
 3300 S. OLD US. 23, BRIGHTON, MI 48114
 PHONE: (810) 225-7100 FAX: (810) 225-7699



Client
 SR JACOBSON DEVELOPMENT CORPORATION
 3200 TELEGRAPH RD. SUITE 200A
 BINGHAM FARMS, MI 48024-2469
 PR. 24824200

WEST VILLAGE
 CITY OF BRIGHTON, LIVINGSTON COUNTY, MICHIGAN
 PRELIMINARY SITE PLAN
 DIMENSIONAL LAYOUT PLAN

DATE	REVISIONS

Drawn: **117/Rsh**
 Checked:
 Approved:
 Date: **01/25/2020**

Job No: **09176-2**
 Scale:
 Vertical:
 Horizontal: **T = 40'**



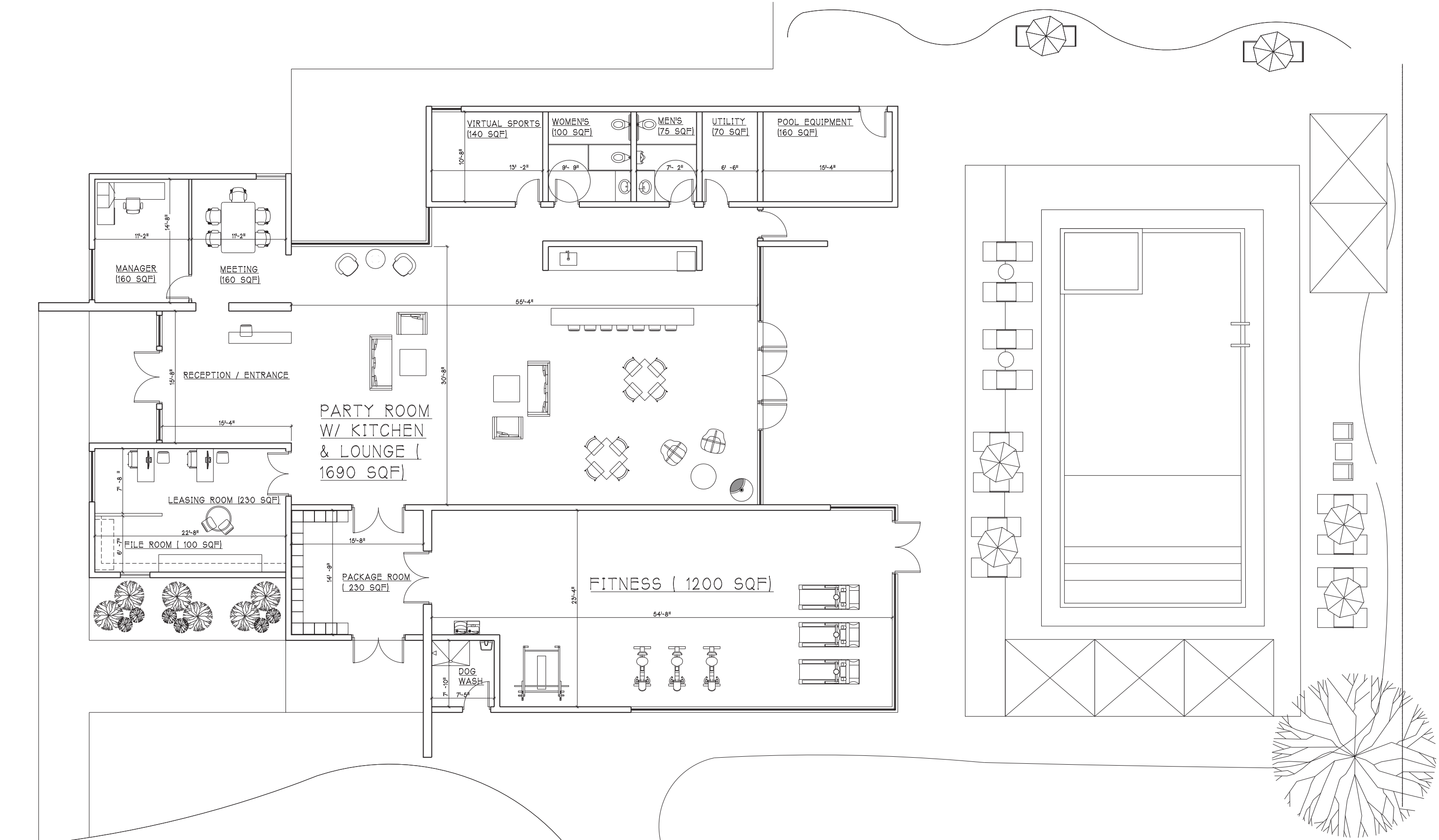
NOT TO BE USED AS CONSTRUCTION DRAWINGS

C-30





Community Building Conceptual Elevations, West Village, Brighton MI

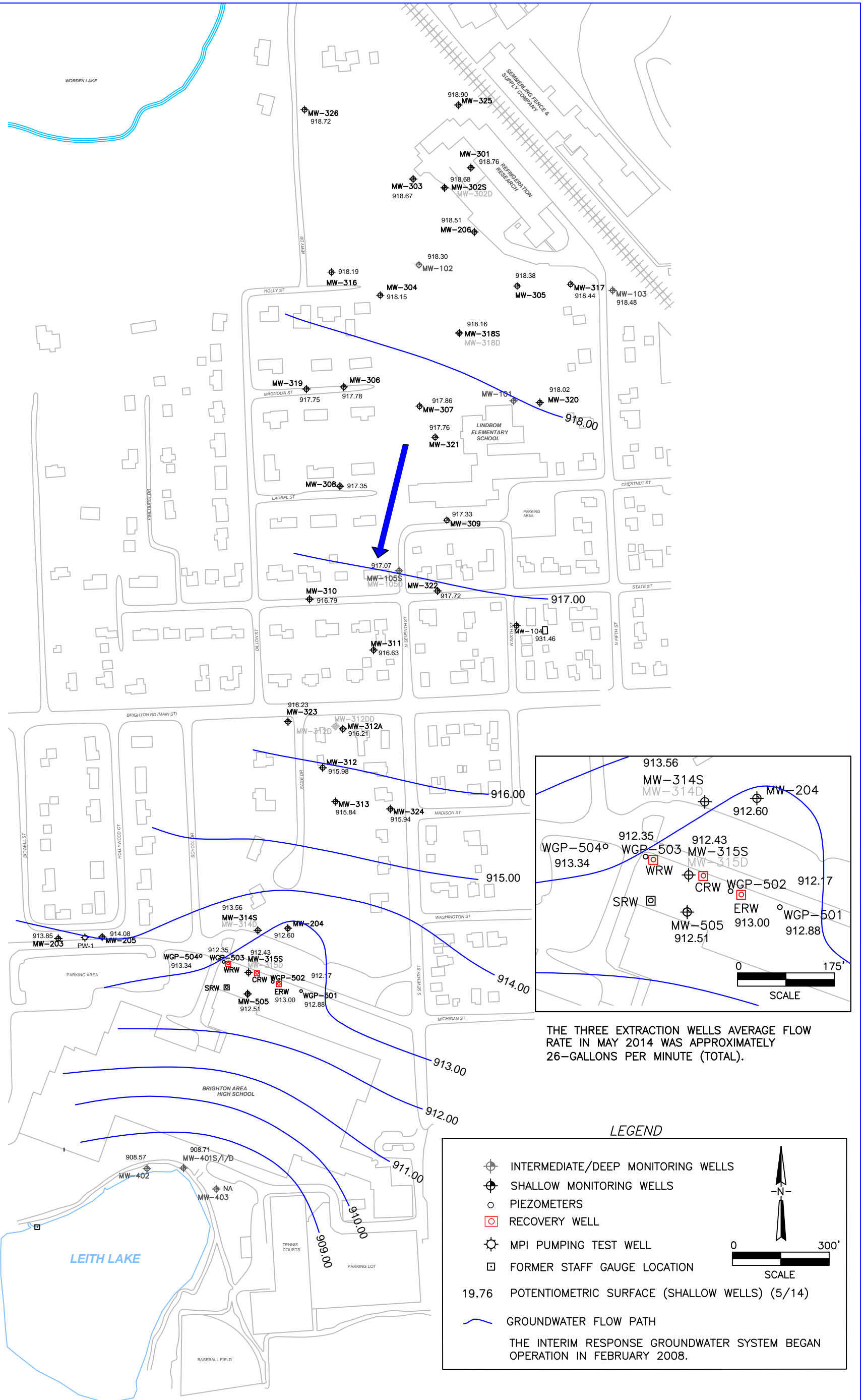


**COMMUNITY BUILDING
FIRST FLOOR PLAN**
SCALE - 3/32" = 1'-0"

BUILDING AREA

Attachment B

Environmental Data and Maps



THE THREE EXTRACTION WELLS AVERAGE FLOW RATE IN MAY 2014 WAS APPROXIMATELY 26-GALLONS PER MINUTE (TOTAL).

LEGEND

- ⊕ INTERMEDIATE/DEEP MONITORING WELLS
 - ⊙ SHALLOW MONITORING WELLS
 - PIEZOMETERS
 - ⊠ RECOVERY WELL
 - ⊙ MPI PUMPING TEST WELL
 - ⊠ FORMER STAFF GAUGE LOCATION
 - 19.76 POTENTIOMETRIC SURFACE (SHALLOW WELLS) (5/14)
 - GROUNDWATER FLOW PATH
- THE INTERIM RESPONSE GROUNDWATER SYSTEM BEGAN OPERATION IN FEBRUARY 2008.

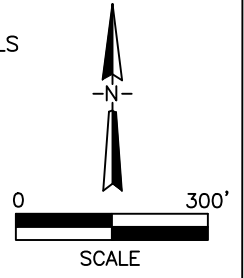


FIGURE 2



2501 Jolly Rd
Suite 100
Okemos, Michigan
48864

SHALLOW POTENTIOMETRIC SURFACE CONTOUR MAP
MAY 2014
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
RESIDENTIAL WELLS – HOLLY ROAD SITE
BRIGHTON, MICHIGAN

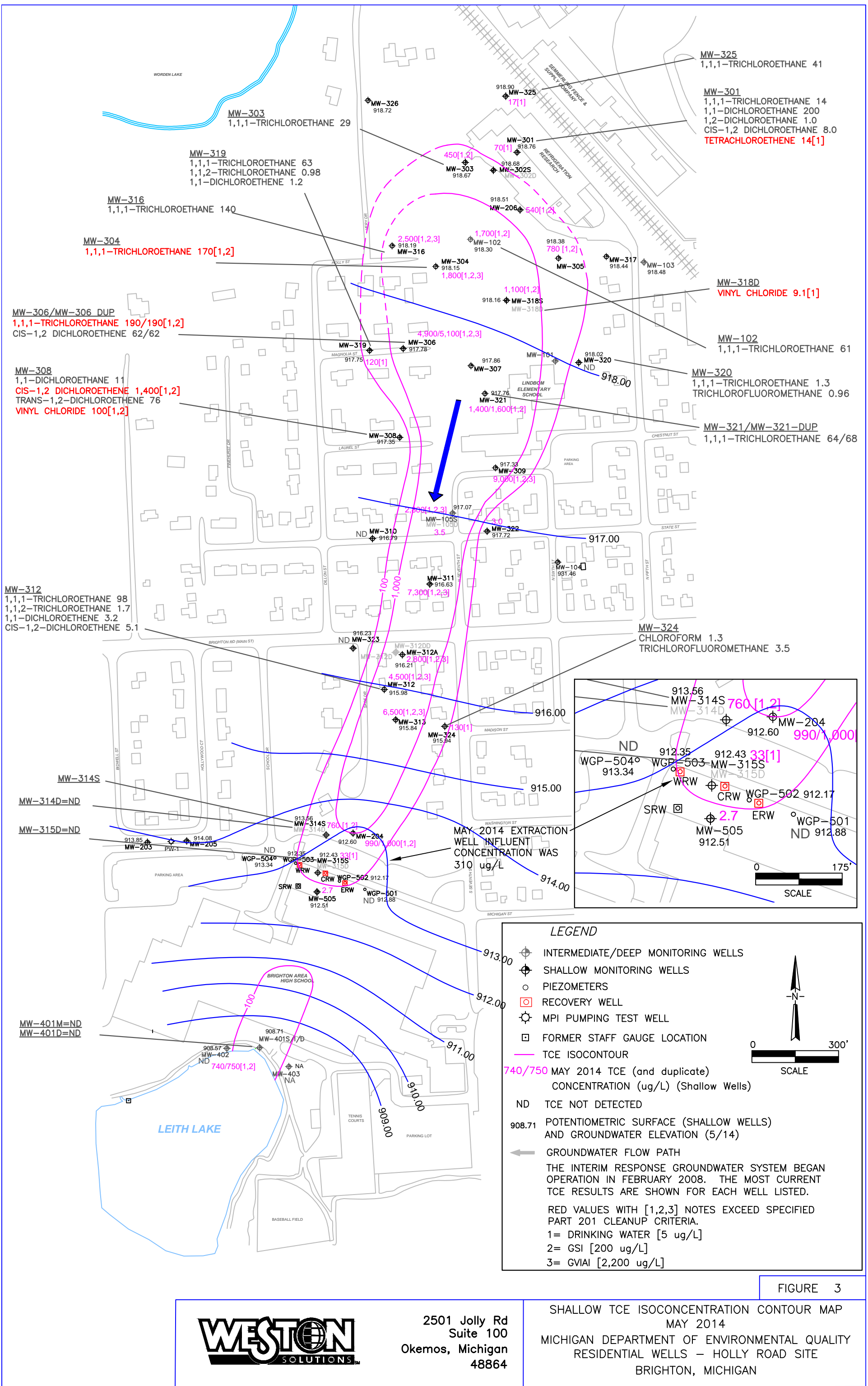


FIGURE 3

WESTON SOLUTIONS

2501 Jolly Rd
Suite 100
Okemos, Michigan
48864

SHALLOW TCE ISOCONCENTRATION CONTOUR MAP
MAY 2014
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
RESIDENTIAL WELLS – HOLLY ROAD SITE
BRIGHTON, MICHIGAN

**TABLE 1
WELL CONSTRUCTION AND GROUNDWATER ELEVATION SUMMARY
JUNE 2008 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Well No.	Ground Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Screened Interval (ft bgs)	Top of Screen Elevation (ft amsl)	June 2008		July 2009		July 2010		October 2012		May 2014	
					Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)
101	934.90	934.56	35-40	899.90	16.25	918.31	15.61	918.95	Obstruction at 15.70 ft below top of casing		Obstruction at 11.40 ft below top of casing		Obstruction at 11.40 ft below top of casing	
102	934.00	937.11	25-30	909.00	18.49	918.62	NM	NM	18.66	918.45	20.20	916.91	18.81	918.30
103	933.40	932.98	25-30	908.40	14.17	918.81	NM	NM	14.35	918.63	NM	NM	14.50	918.48
104	932.00	931.46	40-45	892.00	3.08	928.38	NM	NM	NM	NM	NM	NM	0.00	931.46
105S (south)	933.40	932.98	25-30	908.40	15.57	917.41	14.89	918.09	15.77	917.21	17.25	915.73	15.91	917.07
105D (north)	933.41	933.10	48-53	885.41	15.65	917.45	15.00	918.10	15.79	917.31	17.28	915.82	15.94	917.16
106	937.30	936.81	25-30	912.30	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
107	936.20	938.70	19-24	917.20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
108	937.50	937.11	18.5-23.5	919.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
201	927.20	926.59	15-20	912.20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
202	930.40	930.04	27-32	903.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
203	928.90	931.45	35-40	893.90	17.30	914.15	NM	NM	17.40	914.05	NM	NM	17.60	913.85
204	929.30	931.66	19-24	910.30	17.90	913.76	17.01	914.65	17.84	913.82	19.06	912.60	18.04	913.62
205	929.40	931.73	30-35	899.40	17.38	914.35	NM	NM	17.48	914.25	NM	NM	17.65	914.08
206	936.00	938.65	27-32	909.00	19.82	918.83	19.20	919.45	20.00	918.65	21.50	917.15	20.14	918.51
301	936.93	936.62	19-24	917.93	17.58	919.04	16.96	919.66	17.72	918.90	19.25	917.37	17.86	918.76
302S	937.35	937.03	23-28	914.35	18.06	918.97	NM	NM	18.22	918.81	NM	NM	18.35	918.68
302D	936.85	936.43	40-45	896.85	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
303	935.25	937.14	28-33	907.25	18.17	918.97	18.42	918.72	18.38	918.76	19.90	917.24	18.47	918.67
304	931.94	931.65	25-30	906.94	13.15	918.50	12.50	919.15	13.39	918.26	14.93	916.72	13.50	918.15
305	934.32	934.00	30-35	904.32	15.26	918.74	14.63	919.37	15.46	918.54	16.97	917.03	15.62	918.38
306	931.76	931.45	30-35	901.76	13.33	918.12	12.68	918.77	13.61	917.84	15.15	916.30	13.67	917.78
307	932.87	932.46	27-32	905.87	14.23	918.23	12.58	919.88	14.46	918.00	NM	NM	14.60	917.86
308	931.83	931.46	40-45	891.83	13.76	917.70	13.11	918.35	13.99	917.47	15.53	915.93	14.11	917.35
309	934.08	933.74	30-35	904.08	16.04	917.70	15.40	918.34	16.26	917.48	17.76	915.98	16.41	917.33
310	931.05	930.69	40-45	891.05	13.60	917.09	12.95	917.74	13.81	916.88	15.29	915.40	13.90	916.79
311	932.75	932.32	28.5-33.5	904.25	15.35	916.97	NM	NM	15.55	916.77	17.00	915.32	15.69	916.63
312	931.88	931.43	25-30	906.88	15.18	916.25	14.55	916.88	15.34	916.09	16.72	914.71	15.45	915.98
312A	931.86	931.39	27-32	904.86	14.90	916.49	14.30	917.09	15.07	916.32	16.46	914.93	15.18	916.21
312D	931.99	931.57	45-50	886.99	15.06	916.51	14.45	917.12	15.24	916.33	16.62	914.95	15.35	916.22
312DD	931.95	931.68	65-70	866.95	15.06	916.62	NM	NM	15.35	916.33	NM	NM	15.45	916.23
313	931.83	931.50	29-34	902.83	15.40	916.10	14.81	916.69	15.55	915.95	16.90	914.60	15.66	915.84
314S	930.05	932.17	20-25	910.05	18.50	913.67	17.57	914.60	18.40	913.77	19.67	912.50	18.61	913.56
314D	930.13	932.22	37-42	893.13	17.14	915.08	16.51	915.71	17.25	914.97	18.52	913.70	17.38	914.84
315S	927.76	927.29	17-22	910.76	15.12	912.17	13.76	913.53	14.59	912.70	15.77	911.52	14.86	912.43
315D	927.75	927.36	33-38	894.75	12.60	914.76	12.00	915.36	12.69	914.67	13.95	913.41	12.83	914.53
316	931.25	933.69	20-25	911.25	15.24	918.45	NM	NM	15.55	918.14	17.09	916.60	15.50	918.19
317	933.53	933.22	30-35	903.53	14.45	918.77	NM	NM	14.63	918.59	NM	NM	14.78	918.44
318S (west)	932.85	932.40	30-35	902.85	13.88	918.52	13.22	919.18	14.09	918.31	15.62	916.78	14.24	918.16
318D (east)	932.83	932.33	47-52	885.83	13.80	918.53	13.15	919.18	14.00	918.33	15.54	916.79	14.14	918.19
319	931.67	931.29	30-35	901.67	13.22	918.07	12.57	918.72	13.50	917.79	15.07	916.22	13.54	917.75
320	934.53	934.19	22-27	912.53	15.82	918.37	15.17	919.02	16.02	918.17	17.51	916.68	16.17	918.02
321	931.91	931.54	21-26	910.91	13.42	918.12	NM	NM	13.65	917.89	15.15	916.39	13.78	917.76
322	933.30	932.94	27-32	906.30	15.56	917.38	NM	NM	15.75	917.19	17.21	915.73	15.22	917.72
323	930.61	930.14	25-30	905.61	13.72	916.42	13.09	917.05	13.90	916.24	15.31	914.83	14.01	916.13
324	931.71	931.34	30-35	901.71	15.15	916.19	14.59	916.75	15.32	916.02	16.62	914.72	15.40	915.94
325	936.16	938.02	28-33	908.16	18.85	919.17	18.34	919.68	18.98	919.04	20.50	917.52	19.12	918.90
326	930.36	932.36	13-18	917.36	13.50	918.86	13.10	919.26	13.83	918.53	NM	NM	13.64	918.72
401S (west)	912.16	911.81	10-15	902.16	2.98	908.83	2.87	908.94	3.04	908.77	3.32	908.49	3.10	908.71
401M (center)	911.98	911.54	27-32	884.98	2.70	908.84	2.61	908.93	2.79	908.75	3.04	908.50	2.84	908.70
401D (east)	911.57	913.76	41-46	870.57	2.35	911.41	1.92	911.84	2.39	911.37	3.30	910.46	2.58	911.18
402	910.21	909.87	10-15	900.21	1.17	908.70	1.10	908.77	1.22	908.65	1.48	908.39	1.30	908.57
403	912.65	912.31	10-15	902.65	3.43	908.88	3.30	909.01	3.49	908.82	3.76	908.55	Not Found	Not Found
501	928.05	927.58	15-20	913.05	14.63	912.95	NM	NM	14.51	913.07	15.60	911.98	14.70	912.88
502	927.99	927.39	15-20	912.99	15.23	912.16	NM	NM	14.96	912.43	NM	NM	15.22	912.17
503	927.72	927.38	15-20	912.72	14.92	912.46	NM	NM	14.71	912.67	NM	NM	15.03	912.35
504	927.23	926.57	15-20	912.23	13.09	913.48	NM	NM	13.00	913.57	14.25	912.32	13.23	913.34
505	928.45	928.16	18-23	910.16	15.65	912.51	NM	NM	15.38	912.78	16.52	911.64	15.65	912.51
SRW	928.37	927.77	15-30	913.37	15.10	912.67	NM	NM	14.91	912.86	NM	NM	NM	NM
WRW	927.90	927.75	15-25	912.90	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****
ERW	928.06	927.66	15.5-30.5	912.56	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****
CRW	927.92	927.46	15.5-25	911.96	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****
Leith Lake gauge		911.84	(top of staff gauge)		NM***	NM***	NM***	NM***	NM***	NM***	NM***	NM***	NM***	NM***

Notes:
amsl - above mean sea level
bgs - Below ground surface
ft - feet
NM- Not Measured
NM*** - Not measured. Staff Gauge Removed from Leith Lake.
NM**** - Not measured. Recovery Wells are in Operation.
floc - from top of casing
Bolded Well Nos have screens that straddle the water table.

**TABLE 1
WELL CONSTRUCTION AND
GROUNDWATER ELEVATION SUMMARY**

**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-101								MW-101 DUP		MW-102									
Screen Depth (ft)	35 - 40								35 - 40		25-30									
Date Sampled	15-Dec-2004	12-Oct-2005		12-Dec-2006		7-Jul-2009		12-Dec-2006		12-Dec-2006	7-Jul-2010		7-Jul-2010		25-Oct-2012		6-May-2014			
Date Received	20-Dec-2004	14-Oct-2005		14-Dec-2006		9-Jul-2009		14-Dec-2006		14-Dec-2006	9-Jul-2010		9-Jul-2010		30-Oct-2012		9-May-2014			
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005		18-Dec-2006		10-Jul-2009		18-Dec-2006		19-Dec-2006	13-Jul-2010		13-Jul-2010		3-Nov-2012		14-May-2014			
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	400 [1,2]		140		47		47		61	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	3.4		1.3		1.0	U	20	U	20	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
1,1-Dichloroethene	1.11		1.0	U	1.0	U	50	U	1.0	U	4.7		1.6		1.0	U	20	U	20	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
cis-1,2-Dichloroethene	5.36		1.0	U	1.5		50	U	1.5		150 [1]		54		1.0	U	20	U	20	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
trans-1,2-Dichloroethene	7.74		1.0	U	4.7		50	U	4.5		1.1		1.0	U	1.0	U	20	U	20	U
Trichloroethene	8,510 [1,2,3]		6,900 [1,2,3]		4,700 [1,2,3]		4,500 [1,2,3]		4,800 [1,2,3]		4,800 [1,2,3]		2,400 [1,2,3]		1,600 [1,2]		1,600[1,2]		1,700[1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-103				MW-104		MW-105S													
Screen Depth (ft)	25-30				40-45		25 - 30													
Date Sampled	12-Oct-2005		13-Mar-2007		13-Mar-2007		17-Dec-2004		13-Oct-2005		13-Dec-2006		26-Jun-2008		7-Jul-2009		26-Oct-2012		6-May-2014	
Date Received	14-Oct-2005		14-Mar-2007		14-Mar-2007		20-Dec-2004		14-Oct-2005		14-Dec-2006		26-Jun-2008		9-Jul-2009		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	20-Oct-2005		16-Mar-2007		16-Mar-2007		26-Dec-2004		21-Oct-2005		15-Dec-2006		28-Jun-2008		10-Jul-2009		2-Nov-2012		14-May-2014	
Laboratory	MDEQ		MDEQ - Mobile		MDEQ - Mobile		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	29		31		20	U	26		1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethane	3.9		5.1		1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	2.7		1.0	U	20	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	19,500 [1,2,3]		25,000 [1,2,3]		10,000 [1,2,3]		2,000 [1,2]		1,600 [1,2]		2,700 [1,2,3]		2,800 [1,2,3]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	4.6		1.0	U	20	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-105S DUP				MW-105D													
Screen Depth (ft)	25-30				48 - 53													
Date Sampled	13-Dec-2006		26-Jun-2008		17-Dec-2004		12-Oct-2005		13-Dec-2006		26-Jun-2008		7-Jul-2009		26-Oct-2012		6-May-2014	
Date Received	14-Dec-2006		26-Jun-2008		20-Dec-2004		14-Oct-2005		14-Dec-2006		26-Jun-2008		9-Jul-2009		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	15-Dec-2006		28-Jun-2008		26-Dec-2004		20-Oct-2005		15-Dec-2006		29-Jun-2008		10-Jul-2009		2-Nov-2012		14-May-2014	
Laboratory	MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	31		100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.2		100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	7,800 [1,2,3]		2,000 [1,2]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	2.5		100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-203		MW-204														MW-204 DUP							
Screen Depth (ft)	35-40		19-24														19-24							
Date Sampled	11-Dec-2006		13-Oct-2005	14-Dec-2006	27-Jun-2007	24-Jun-2008	8-Jul-2009	29-Jun-2010	26-Oct-2012	7-May-2014	13-Oct-2005	14-Dec-2006	7-May-2014											
Date Received	14-Dec-2006		14-Oct-2005	14-Dec-2006	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	14-Oct-2005	14-Dec-2006	9-May-2014											
Date VOCs Analyzed	18-Dec-2006		21-Oct-2005	15-Dec-2006	29-Jun-2007	28-Jun-2008	10-Jul-2009	3-Jul-2010	2-Nov-2012	14-May-2014	21-Oct-2005	15-Dec-2006	14-May-2014											
Laboratory	MDEQ		MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ					
1,1,1-Trichloroethane	1.0	U	1.0	U	1.9		2.9		2.5		20	U	50	U	50	U	20	U	1.0	U	1.8		1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.6		1.4		2.2		20	U	50	U	50	U	20	U	1.0	U	1.2		1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	2.7		1.4		1.0		20	U	50	U	50	U	20	U	1.0	U	2.7		1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	360 [1,2]		1,100 [1,2]		2,400 [1,2,3]		2,300 [1,2,3]		3,800 [1,2,3]		4,800 [1,2,3]		1,400 [1,2]		990 [1,2]		360 [1,2]		1,000 [1,2]		1,000 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-205				MW-206												MW-206 DUP			
Screen Depth (ft)	30 - 35				27 - 32															
Date Sampled	15-Dec-2006	25-Jun-2008	15-Dec-2004	12-Oct-2005	12-Dec-2006	7-Jul-2009	8-Jul-2010	25-Oct-2012	6-May-2014	8-Jul-2010										
Date Received	19-Dec-2006	26-Jun-2008	20-Dec-2004	14-Oct-2005	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	9-Jul-2010										
Date VOCs Analyzed	21-Dec-2006	28-Jun-2008	22-Dec-2004	21-Oct-2005	19-Dec-2006	10-Jul-2009	13-Jul-2010	3-Nov-2012	14-May-2014	13-Jul-2010										
Laboratory	MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDNRE	
1,1,1-Trichloroethane	1.0	U	1.0	U	73.5		21		20	U	20	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	1.0	U	1.0	U	1.29		1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	71.2 [1]		1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
Trichloroethene	1.0	U	1.0	U	2,530 [1,2,3]		1,300 [1,2]		1,500 [1,2]		680 [1,2]		600 [1,2]		570 [1,2]		540 [1,2]		620 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-301														MW-301 DUP		MW-302S	
Screen Depth (ft)	19 - 24														19 - 24		23-28	
Date Sampled	15-Dec-2004	12-Oct-2005	19-Dec-2006	7-Jul-2009	7-Jul-2010	26-Oct-2012	5-May-2014	26-Oct-2012	12-Dec-2006									
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	30-Oct-2012	14-Dec-2006									
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005	21-Dec-2006	13-Jul-2009	13-Jul-2010	2-Nov-2012	13-May-2014	2-Nov-2012	19-Dec-2006									
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ									
1,1,1-Trichloroethane	18.2		12		3		2		7.7		14		14		14		18	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	50.8		1,700 [1,2]		980 [1,2]		170		63		260		200		280		1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	7 [1]		3.1		1.0	U	1.0	U	1.0		1.0	U	1.0		1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	12		1.0	U	1.0	U
cis-1,2-Dichloroethene	7.20		1.0	U	9.5		17		5.6		7.6		15		8.0		8.4	
Tetrachloroethene	39.4 [1]		38 [1]		28 [1]		21 [1]		19 [1]		13 [1]		11 [1]		14 [1]		1.2	
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	519 [1,2]		360 [1,2]		100 [1,2]		44 [1]		53 [1]		62 [1]		70 [1]		65 [1]		1,700 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	12 [1]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-303												MW-303 DUP		MW-304									
Screen Depth (ft)	28 - 33												28 - 33		25-30									
Date Sampled	15-Dec-2004	12-Oct-2005	12-Dec-2006	7-Jul-2009	8-Jul-2010	26-Oct-2012	5-May-2014	12-Oct-2005	14-Mar-2007	7-Jul-2009	25-Oct-2012	6-May-2014	12-Oct-2005	14-Mar-2007	7-Jul-2009	25-Oct-2012	6-May-2014							
Date Received	20-Dec-2004	14-Oct-2005	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	14-Oct-2005	15-Mar-2007	9-Jul-2009	30-Oct-2012	9-May-2014	14-Oct-2005	15-Mar-2007	9-Jul-2009	30-Oct-2012	9-May-2014							
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005	19-Dec-2006	20-Jul-2009	13-Jul-2010	3-Nov-2012	13-May-2014	21-Oct-2005	16-Mar-2007	10-Jul-2009	3-Nov-2012	14-May-2014	21-Oct-2005	16-Mar-2007	10-Jul-2009	3-Nov-2012	14-May-2014							
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ							
1,1,1-Trichloroethane	191		140		130		20	U	49		36		29		160		370 [1,2]		430 [1,2]		270 [1,2]		170 [1,2]	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	4.0		1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	93 [1]	U	10	U	9.8	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
Trichloroethene	1,460 [1,2]		1,200 [1,2]		1,300 [1,2]		990 [1,2]		700 [1,2]		590 [1,2]		450 [1,2]		1,400 [1,2]		3,400 [1,2,3]		2,900 [1,2,3]		2,300 [1,2,3]		1,800 [1,2,3]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-305								MW-306								MW-306 DUP									
Screen Depth (ft)	30-35								30 - 35								30 - 35									
Date Sampled	12-Dec-2006	7-Jul-2009	25-Oct-2012	6-May-2014	17-Dec-2004	13-Oct-2005	18-Dec-2006	8-Jul-2009	31-Oct-2012	7-May-2014	17-Dec-2004	31-Oct-2012	7-May-2014													
Date Received	14-Dec-2006	9-Jul-2009	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	9-Jul-2009	1-Nov-2012	9-May-2014	20-Dec-2004	1-Nov-2012	9-May-2014													
Date VOCs Analyzed	18-Dec-2006	10-Jul-2009	3-Nov-2012	14-May-2014	26-Dec-2004	21-Oct-2005	21-Dec-2006	20-Jul-2009	5-Nov-2012	14-May-2014	26-Dec-2004	5-Nov-2012	14-May-2014													
Laboratory	MDEQ		MDEQ		MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		Clayton		MDEQ		MDEQ			
1,1,1-Trichloroethane	11		10	U	6.8		10	U	1,410 [1,2]		1,200 [1,2]		1,100 [1,2]		250 [1,2]		230 [1,2]		190 [1,2]		1,410 [1,2]		210 [1,2]		190 [1,2]	
1,1,2-Trichloroethane	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	8.3 [1]		1.0	U	200	U	8.7 [1]		1.0	U
1,2-Dichloroethane	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
Chloroform	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	55		62		200	U	57		60	
Tetrachloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
Trichloroethene	680 [1,2]		630 [1,2]		810 [1,2]		780 [1,2]		18,100 [1,2,3]		21,000 [1,2,3]		10,000 [1,2,3]		6,300 [1,2,3]		5,400 [1,2,3]		4,900 [1,2,3]		18,000 [1,2,3]		5,400 [1,2,3]		5,100 [1,2,3]	
Trichlorofluoromethane	1.2		10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-307				MW-308										MW-308 DUP					
Screen Depth (ft)	27-32				40 - 45										40-45					
Date Sampled	15-Mar-2007		7-Jul-2009		16-Dec-2004		12-Oct-2005		11-Dec-2006		8-Jul-2009		6-Jul-2010		31-Oct-2012		7-May-2014		11-Dec-2006	
Date Received	15-Mar-2007		9-Jul-2009		20-Dec-2004		14-Oct-2005		14-Dec-2006		9-Jul-2009		9-Jul-2010		1-Nov-2012		9-May-2014		14-Dec-2006	
Date VOCs Analyzed	16-Mar-2007		10-Jul-2009		26-Dec-2004		19-Oct-2005		15-Dec-2006		10-Jul-2009		13-Jul-2010		5-Nov-2012		14-May-2014		15-Dec-2006	
Laboratory	MDEQ - Mobile		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	50	U	42		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	6.3		11		1.0	U
1,1-Dichloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	50	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	7.3		160 [1]		830 [1,2]		1,400 [1,2]		1.0	U
Tetrachloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0		47		76		1.0	U
Trichloroethene	4,900 [1,2,3]		3,300 [1,2,3]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	14		1.0	U	1.0	U
Trichlorofluoromethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	50	U	10	U	72.2 [1,2]		120 [1,2]		59 [1,2]		100 [1,2]		60 [1,2]		80 [1,2]		100 [1,2]		38 [1,2]	

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-309										MW-310										MW-310 DUP					
	30-35										40 - 45										40 - 45					
Date Sampled	13-Mar-2007		7-Jul-2009		30-Jun-2010		26-Oct-2012		6-May-2014		16-Dec-2004		12-Oct-2005		11-Dec-2006		8-Jul-2009		6-Jul-2010		31-Oct-2012		6-May-2014		6-Jul-2010	
Date Received	14-Mar-2007		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014		20-Dec-2004		14-Oct-2005		14-Dec-2006		9-Jul-2009		9-Jul-2010		1-Nov-2012		9-May-2014		9-Jul-2010	
Date VOCs Analyzed	16-Mar-2007		10-Jul-2009		3-Jul-2010		2-Nov-2012		14-May-2014		26-Dec-2004		20-Oct-2005		18-Dec-2006		13-Jul-2009		13-Jul-2010		6-Nov-2012		14-May-2014		13-Jul-2010	
Laboratory	MDEQ - Mobile		MDEQ		MDNRE		MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ			
1,1,1-Trichloroethane	200	U	20		100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	200	U	1.0	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	13,000 [1,2,3]		11,000 [1,2,3]		11,000 [1,2,3]		8,100 [1,2,3]		9,000 [1,2,3]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location				MW-311				MW-312									
Screen Depth (ft)				28.5 - 33.5				25 - 30									
Date Sampled	15-Dec-2006	30-Jun-2010	31-Oct-2012	7-May-2014	16-Dec-2004	12-Oct-2005	19-Dec-2006	25-Jun-2008	8-Jul-2009	31-Oct-2012	7-May-2014						
Date Received	19-Dec-2006	1-Jul-2010	1-Nov-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Nov-2012	9-May-2014						
Date VOCs Analyzed	21-Dec-2006	3-Jul-2010	6-Nov-2012	14-May-2014	22-Dec-2004	21-Oct-2005	21-Dec-2006	28-Jun-2008	13-Jul-2009	6-Nov-2012	14-May-2014						
Laboratory	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ						
1,1,1-Trichloroethane	8.6	9.0	200	U	100	U	20	1.0	U	31	29	50	U	98	170		
1,1,2-Trichloroethane	1.2	1.1	200	U	100	U	4.54	1.0	U	3.8	1.0	50	U	1.7	1.0	U	
1,1-Dichloroethane	1.0	1.0	200	U	100	U	1.19	1.0	U	1.0	U	1.6	50	U	1.0	U	
1,1-Dichloroethene	1.0	1.1	200	U	100	U	2.50	1.0	U	4.8	1.0	U	50	U	3.2	1.0	U
1,2-Dichloroethane	1.0	1.0	200	U	100	U	1.0	U	1.0	U	U	1.0	U	50	U	1.0	U
Chloroform	1.0	1.0	200	U	100	U	1.0	U	1.0	U	U	1.0	U	50	U	1.0	U
cis-1,2-Dichloroethene	1.0	1.0	200	U	100	U	4.52	1.0	U	3.2	1.0	U	50	U	5.1	1.0	U
Tetrachloroethene	1.0	1.0	200	U	100	U	1.0	U	1.0	U	U	1.0	U	50	U	1.0	U
trans-1,2-Dichloroethene	1.0	1.0	200	U	100	U	1.0	U	1.0	U	U	1.0	U	50	U	1.0	U
Trichloroethene	15,000 [1,2,3]	10,000 [1,2,3]	7,400 [1,2,3]	7,300 [1,2,3]	19,900 [1,2,3]	14,000 [1,2,3]	14,000 [1,2,3]	14,000 [1,2,3]	9,200 [1,2,3]	4,100 [1,2,3]	3,500 [1,2,3]	4,500 [1,2,3]					
Trichlorofluoromethane	1.0	1.0	200	U	100	U	1.0	U	1.0	U	U	1.0	U	50	U	1.0	U
Vinyl chloride	1.0	1.0	200	U	100	U	1.0	U	1.0	U	U	1.0	U	50	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-312 Duplicate				MW-312A															
	25-30				45 - 50															
Date Sampled	16-Dec-2004	25-Jun-2008			16-Dec-2004	13-Oct-2005		18-Dec-2006	25-Jun-2008		8-Jul-2009	30-Jun-2010		30-Oct-2012		7-May-2014				
Date Received	20-Dec-2004	26-Jun-2008			20-Dec-2004	14-Oct-2005		19-Dec-2006	26-Jun-2008		9-Jul-2009	1-Jul-2010		1-Nov-2012		9-May-2014				
Date VOCs Analyzed	22-Dec-2004	28-Jun-2008			26-Dec-2004	21-Oct-2005		21-Dec-2006	28-Jun-2008		10-Jul-2009	3-Jul-2010		5-Nov-2012		14-May-2014				
Laboratory	Clayton	MDEQ			Clayton	MDEQ		MDEQ	MDEQ		MDEQ	MDNRE		MDEQ		MDEQ				
1,1,1-Trichloroethane	20.7		250	U	100	U	1.0	U	5.4		11		100	U	100	U	100	U	50	U
1,1,2-Trichloroethane	4.97		250	U	100	U	1.0	U	1.6		2.3		100	U	100	U	100	U	50	U
1,1-Dichloroethane	1.11		250	U	100	U	1.0	U	1.0	U	1.5		100	U	100	U	100	U	50	U
1,1-Dichloroethene	3.10		250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
1,2-Dichloroethane	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Chloroform	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
cis-1,2-Dichloroethene	4.72		250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Tetrachloroethene	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
trans-1,2-Dichloroethene	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Trichloroethene	18,100 [1,2,3]		8,700 [1,2,3]		8,930 [1,2,3]		9,100 [1,2,3]		11,000 [1,2,3]		7,400 [1,2,3]		4,100 [1,2,3]		3,800 [1,2,3]		3,000 [1,2,3]		2,800 [1,2,3]	
Trichlorofluoromethane	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Vinyl chloride	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-312D															
Screen Depth (ft)	45 - 50															
Date Sampled	16-Dec-2004		12-Oct-2005		18-Dec-2006		25-Jun-2008		8-Jul-2009		30-Jun-2010		30-Oct-2012		7-May-2014	
Date Received	20-Dec-2004		14-Oct-2005		19-Dec-2006		26-Jun-2008		9-Jul-2009		1-Jul-2010		1-Nov-2012		9-May-2014	
Date VOCs Analyzed	24-Dec-2004		19-Oct-2005		22-Dec-2006		1-Jul-2008		10-Jul-2009		3-Jul-2010		5-Nov-2012		14-May-2014	
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-312DD								MW-313											
Screen Depth (ft)	65 - 70								29 - 34											
Date Sampled	16-Dec-2004	12-Oct-2005	15-Dec-2006	25-Jun-2008	15-Dec-2006	25-Jun-2008	7-Jul-2009	30-Jun-2010	31-Oct-2012	7-May-2014										
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	1-Nov-2012	9-May-2014										
Date VOCs Analyzed	24-Dec-2004	19-Oct-2005	22-Dec-2006	29-Jun-2008	22-Dec-2006	28-Jun-2008	10-Jul-2009	3-Jul-2010	6-Nov-2012	14-May-2014										
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ									
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.4	1.0	U	100	U	100	U	100	U	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.4	1.0	U	100	U	100	U	100	U	
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
Trichloroethene	1.0	U	1.0	U	1.0	U	3.1		3,100 [1,2,3]		6,300 [1,2,3]		4,100 [1,2,3]		4,600 [1,2,3]		7,800 [1,2,3]		6,500 [1,2,3]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-314S																	
Screen Depth (ft)	20 - 25																	
Date Sampled	16-Dec-2004		13-Oct-2005		13-Dec-2006		26-Jun-2007		24-Jun-2008		9-Jul-2009		29-Jun-2010		26-Oct-2012		8-May-2014	
Date Received	20-Dec-2004		14-Oct-2005		14-Dec-2006		29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	22-Dec-2004		25-Oct-2005		15-Dec-2006		29-Jun-2007		28-Jun-2008		13-Jul-2009		3-Jul-2010		2-Nov-2012		14-May-2014	
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	4.14		1.0	U	2.6		1.2		1.0	U	1.0	U	10	U	10	U	17	
1,1,2-Trichloroethane	1.68		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
Trichloroethene	3,710 [1,2,3]		2,600 [1,2,3]		2,700 [1,2,3]		1,700 [1,2]		650 [1,2]		360 [1,2]		380 [1,2]		850 [1,2]		760 [1,2]	
Trichlorofluoromethane	1.04		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-314S DUP								MW-314D															
	20 - 25								37 - 42															
Date Sampled	16-Dec-2004	26-Jun-2007	24-Jun-2008	9-Jul-2009	16-Dec-2004	11-Oct-2005	14-Dec-2006	26-Jun-2007	24-Jun-2008	9-Jul-2009	29-Jun-2010	26-Oct-2012	8-May-2014											
Date Received	20-Dec-2004	29-Jun-2007	26-Jun-2008	9-Jul-2009	20-Dec-2004	14-Oct-2005	14-Dec-2006	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014											
Date VOCs Analyzed	22-Dec-2004	29-Jun-2007	1-Jul-2008	13-Jul-2009	24-Dec-2004	20-Oct-2005	18-Dec-2006	2-Jul-2007	28-Jun-2008	10-Jul-2009	3-Jul-2010	2-Nov-2012	14-May-2014											
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ											
1,1,1-Trichloroethane	4.21		1.1		10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.78		1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	3,670 [1,2,3]		1,700 [1,2]		580 [1,2]		360 [1,2]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-315S																		MW-315S DUP	
Screen Depth (ft)	17 - 22																		33 - 38	
Date Sampled	15-Dec-2004	12-Oct-2005		14-Dec-2006		26-Jun-2007		24-Jun-2008		9-Jul-2009		29-Jun-2010		29-Oct-2012		8-May-2014		12-Oct-2005		
Date Received	20-Dec-2004	14-Oct-2005		14-Dec-2006		29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014		14-Oct-2005		
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005		15-Dec-2006		29-Jun-2007		28-Jun-2008		13-Jul-2009		13-Jul-2010		3-Nov-2012		14-May-2014		21-Oct-2005		
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	7.0		1.0	U	3.0		2.1		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	3.22		1.0	U	1.4		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0		1.0	U	1.4		1.1		5.9		6.8		6.0		1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	3,180 [1,2,3]		2,800 [1,2,3]		1,700 [1,2]		1,800 [1,2]		470 [1,2]		190 [1]		74 [1]		32 [1]		33 [1]		3,000 [1,2,3]	
Trichlorofluoromethane	1.41		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-315D																	
Screen Depth (ft)	33 - 38																	
Date Sampled	16-Dec-2004		11-Oct-2005		14-Dec-2006		26-Jun-2007		24-Jun-2008		9-Jul-2009		29-Jun-2010		29-Oct-2012		8-May-2014	
Date Received	20-Dec-2004		14-Oct-2005		14-Dec-2006		29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	24-Dec-2004		19-Oct-2005		18-Dec-2006		29-Jun-2007		29-Jun-2008		10-Jul-2009		3-Jul-2010		3-Nov-2012		14-May-2014	
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.2		1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-316								MW-317		MW-317 DUP	
Screen Depth (ft)	20-25								30-35		30-35	
Date Sampled	14-Mar-2007	7-Jul-2010		31-Oct-2012		7-May-2014		19-Dec-2006		19-Dec-2006		
Date Received	15-Mar-2007	9-Jul-2010		1-Nov-2012		9-May-2014		19-Dec-2006		19-Dec-2006		
Date VOCs Analyzed	16 & 20 Mar-2007		13-Jul-2010		6-Nov-2012		14-May-2014		21-Dec-2006		21-Dec-2006	
Laboratory	MDEQ - Mobile		MDNRE		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	91		100		99		140		19		18	
1,1,2-Trichloroethane	2.3		1.0	U	50.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethane	1.4		1.0	U	50.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethene	9.2 [1]		1.7		50.0	U	20	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
Trichloroethene	1,900 [1,2]		2,200 [1,2]		2,300 [1,2,3]		2,500 [1,2,3]		1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	50.0	U	20	U	32		29	
Vinyl chloride	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-318S										MW-318S DUP		MW-318D										MW-319											
	30-35										30-35		47-52										30 - 35											
Date Sampled	13-Dec-2006	7-Jul-2009	7-Jul-2010	25-Oct-2012	6-May-2014	25-Oct-2012	13-Dec-2006	7-Jul-2009	7-Jul-2010	25-Oct-2012	6-May-2014	17-Dec-2004	12-Oct-2005	18-Dec-2006	8-Jul-2009	7-Jul-2010	31-Oct-2012	7-May-2014																
Date Received	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	30-Oct-2012	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	9-Jul-2009	9-Jul-2010	1-Nov-2012	9-May-2014																
Date VOCs Analyzed	15-Dec-2006	10-Jul-2009	14-Jul-2010	3-Nov-2012	14-May-2014	3-Nov-2012	21-Dec-2006	10-Jul-2009	14-Jul-2010	3-Nov-2012	14-May-2014	26-Dec-2004	20-Oct-2005	21-Dec-2006	10-Jul-2009	14-Jul-2010	7-Nov-2012	14-May-2014																
Laboratory	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ																
1,1,1-Trichloroethane	6.2	1.0	U	20	U	20	U	20	U	20	U	11	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	35	25	17	30	38	63	63				
1,1,2-Trichloroethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.3	0.98
1,1-Dichloroethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.16	1.2	1.0	U	1.8	1.5	1.4	1.2		
1,2-Dichloroethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.4	3.2	2.1	2.2	1.0	U
Chloroform	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	2,700 [1,2]	1,700 [1,2]	1,800 [1,2]	1,300 [1,2]	1,100 [1,2]	1,300 [1,2]	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	11 [1]	19 [1]	49 [1]	120 [1]
Trichlorofluoromethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	20	U	20	U	20	U	20	U	31 [1,2]	16 [1,2]	11 [1]	8.3 [1]	9.1 [1]	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-320												MW-321						MW-321 DUP					
Screen Depth (ft)	22 - 27												21-26						21-26					
Date Sampled	15-Dec-2004		12-Oct-2005		12-Dec-2006		7-Jul-2009		6-Jul-2010		25-Oct-2012		6-May-2014	15-Mar-2007	7-Jul-2010	25-Oct-2012	6-May-2014	6-May-2014						
Date Received	20-Dec-2004		14-Oct-2005		14-Dec-2006		9-Jul-2009		9-Jul-2010		30-Oct-2012		9-May-2014	15-Mar-2007	9-Jul-2010	30-Oct-2012	9-May-2014	9-May-2014						
Date VOCs Analyzed	24-Dec-2004		20-Oct-2005		21-Dec-2006		10-Jul-2009		13-Jul-2010		5-Nov-2012		14-May-2014	16-Mar-2007	13-Jul-2010	3-Nov-2012	14-May-2014	14-May-2014						
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	MDEQ - Mobile	MDNRE	MDEQ	MDEQ	MDEQ						
1,1,1-Trichloroethane	5.96		3.6		3.4		2.0		1.3		1.3		1.3	50	U	92		72		64		68		
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	3.0		1.0	U	1.0	U	20	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	4.6		1.0	U	1.0	U	20	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	6.3		1.0	U	1.0	U	20	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1,900 [1,2]		2,000 [1,2]		2,100 [1,2]		1,400 [1,2]		1,600 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	0.96		50	U	1.0	U	1.0	U	1.0	U	20	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-322										MW-323										MW-324											
Screen Depth (ft)	27 - 32										25 - 30										30 - 35											
Date Sampled	16-Dec-2004	12-Oct-2005	11-Dec-2006	31-Oct-2012	6-May-2014	15-Dec-2006	26-Jun-2008	8-Jul-2009	30-Jun-2010	30-Oct-2012	7-May-2014	15-Dec-2006	25-Jun-2008	8-Jul-2009	30-Jun-2010	31-Oct-2012	7-May-2014															
Date Received	20-Dec-2004	14-Oct-2005	14-Dec-2006	1-Nov-2012	9-May-2014	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	1-Nov-2012	9-May-2014	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	1-Nov-2012	9-May-2014															
Date VOCs Analyzed	26-Dec-2004	20-Oct-2005	15-Dec-2006	6-Nov-2012	14-May-2014	22-Dec-2006	29-Jun-2008	10-Jul-2009	3-Jul-2010	5-Nov-2012	14-May-2014	21-Dec-2006	29-Jun-2008	10-Jul-2009	3-Jul-2010	7-Nov-2012	14-May-2014															
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ															
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	3.0		1.0	U	2.4		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.4		1.0	U	1.0	U	130 [1]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.5	
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-324-DUP				MW-325										MW-326							
Screen Depth (ft)	30 - 35				22 - 27										13-18							
Date Sampled	15-Dec-2006		8-Jul-2009		15-Dec-2004		12-Oct-2005		19-Dec-2006		8-Jul-2009		7-Jul-2010		26-Oct-2012		5-May-2014		13-Mar-2007		8-Jul-2009	
Date Received	19-Dec-2006		9-Jul-2009		20-Dec-2004		14-Oct-2005		19-Dec-2006		9-Jul-2009		9-Jul-2010		30-Oct-2012		9-May-2014		14-Mar-2007		9-Jul-2009	
Date VOCs Analyzed	21-Dec-2006		10-Jul-2009		22-Dec-2004		20-Oct-2005		28-Dec-2006		10-Jul-2009		14-Jul-2010		2-Nov-2012		13-May-2014		16-Mar-2007		16-Jul-2009	
Laboratory	MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDEQ - Mobile		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	79.1		49		51		41		37		41		41		1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	42.1 [1]		32 [1]		32 [1]		29 [1]		21 [1]		19 [1]		17 [1]		1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-401S										MW-401S DUP																			
	10 - 15										10 - 15																			
Date Sampled	15-Dec-2004	11-Oct-2005	18-Dec-2006	12-Mar-2007	28-Jun-2007	23-Jun-2008	9-Jul-2009	28-Jun-2010	29-Oct-2012	8-May-2014	18-Dec-2006	23-Jun-2008	28-Jun-2010	29-Oct-2012	8-May-2014															
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	14-Mar-2007	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	19-Dec-2006	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014															
Date VOCs Analyzed	22-Dec-2004	18-Oct-2005	22-Dec-2006	14-Mar-2007	2-Jul-2007	28-Jun-2008	15-Jul-2009	3-Jul-2010	3-Nov-2012	14-May-2014	21-Dec-2006	28-Jun-2008	3-Jul-2010	3-Nov-2012	14-May-2014															
Laboratory	Clayton	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ															
1,1,1-Trichloroethane	1.0		1.0	U	6.4		5.0	U	3.8		1.0	U	1.0	U	20	U	20	U	10	U	6.5		2.5		20	U	20	U	10	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.4		5.0	U	2.4		1.0	U	1.0	U	20	U	20	U	10	U	1.5		1.7		20	U	20	U	10	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
Trichloroethene	1.0	U	1.0	U	410 [1,2]		620 [1,2]		1,200 [1,2]		1,300 [1,2]		1,700 [1,2]		1,300 [1,2]		1,100 [1,2]		740 [1,2]		410 [1,2]		1,300 [1,2]		1,400 [1,2]		1,100 [1,2]		750 [1,2]	
Trichlorofluoromethane	5.60		1.8		1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-401M																MW-401D																	
Screen Depth (ft)	27 - 32																41 - 46																	
Date Sampled	15-Dec-2004	11-Oct-2005	18-Dec-2006	24-Jun-2008	9-Jul-2009	28-Jun-2010	29-Oct-2012	8-May-2014	15-Dec-2004	11-Oct-2005	18-Dec-2006	12-Mar-2007	29-Jun-2007	24-Jun-2008	9-Jul-2009	28-Jun-2010	29-Oct-2012	8-May-2014																
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	12-Mar-2007	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014																
Date VOCs Analyzed	21-Dec-2004	18-Oct-2005	22-Dec-2006	1-Jul-2008	15-Jul-2009	3-Jul-2010	3-Nov-2012	14-May-2014	22-Dec-2004	18-Oct-2005	21-Dec-2006	12-Mar-2007	2-Jul-2007	28-Jun-2008	15-Jul-2009	3-Jul-2010	3-Nov-2012	14-May-2014																
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ																
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	WGP-501								WPG-501 DUP	WGP-502		WGP-503		WGP-504								MW-505						MW-505 DUP										
	15 - 20								15 - 20	15 - 20		15 - 20		15 - 20								18 - 23						18 - 23										
Date Sampled	8-Jan-2007	11-Mar-2007	28-Jun-2007	24-Jun-2008	29-Jun-2010	29-Oct-2012	8-May-2014	8-Jan-2007	9-Mar-2007	9-Mar-2007	8-Jan-2007	9-Mar-2007	26-Jun-2007	24-Jun-2008	29-Jun-2010	26-Oct-2012	8-May-2014	27-Jun-2007	24-Jun-2008	29-Jun-2010	29-Oct-2012	8-May-2014	29-Jun-2010															
Date Received	9-Jan-2007	12-Mar-2007	29-Jun-2007	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014	9-Jan-2007	12-Mar-2007	12-Mar-2007	9-Jan-2007	12-Mar-2007	29-Jun-2007	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014	29-Jun-2007	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014	1-Jul-2010															
Date VOCs Analyzed	9-Jan-2007	12-Mar-2007	3-Jul-2007	29-Jun-2008	3-Jul-2010	3-Nov-2012	14-May-2014	9-Jan-2007	12-Mar-2007	12-Mar-2007	9-Jan-2007	12-Mar-2007	29-Jun-2007	28-Jun-2008	3-Jul-2010	2-Nov-2012	14-May-2014	2-Jul-2007	28-Jun-2008	6-Jul-2010	3-Nov-2012	14-May-2014	6-Jul-2010															
Laboratory	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDNRE	MDNRE	MDEQ	MDEQ	MDEQ - Mobile	MDEQ - Mobile	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDNRE															
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	3		4.3		5.5 [1]		2.3		1.1		1.0	U	3.2		2,000 [1,2]		240 [1,2]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	FB-001		FB-002		FB-003		TB-01		FB-001		FB-002		TB-01		EB-12112006		TB-12112006		FB-12112006		EB-12122006		FB-12122006		EB-12132006		FB-12132006					
Screen Depth (ft)																																
Date Sampled	15-Dec-2004		16-Dec-2004		17-Dec-2004		15-Dec-2004		12-Oct-2005		13-Oct-2005		5-Oct-2005		11-Dec-2006		11-Dec-2006		11-Dec-2006		12-Dec-2006		12-Dec-2006		13-Dec-2006		13-Dec-2006					
Date Received	20-Dec-2004		20-Dec-2004		20-Dec-2004		20-Dec-2004		14-Oct-2005		14-Oct-2005		14-Oct-2005		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006					
Date VOCs Analyzed	24-Dec-2004		24-Dec-2004		27-Dec-2004		24-Dec-2004		19-Oct-2005		19-Oct-2005		18-Oct-2005		15-Dec-2006		18-Dec-2006		15-Dec-2006		19-Dec-2006		19-Dec-2006		18-Dec-2006		18-Dec-2006					
Laboratory	Clayton		Clayton		Clayton		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ					
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	EB-12142006		FB12142006		TB-1		EB-12182006		EB-12192006		FB-12192006		EB 01082007		FB 01082007		TB 01082007		TB-12152006		FB-12152006		EB-12152006		FB-12182006		TB-06262007		EB-06262007			
Screen Depth (ft)																																
Date Sampled	14-Dec-2006		14-Dec-2006		27-Dec-2006		18-Dec-2006		19-Dec-2006		19-Dec-2006		1/8/2007		1/8/2007		1/8/2007		15-Dec-2006		15-Dec-2006		15-Dec-2006		18-Dec-2006		26-Jun-2007		26-Jun-2007			
Date Received	14-Dec-2006		14-Dec-2006		27-Dec-2006		19-Dec-2006		19-Dec-2006		19-Dec-2006		1/9/2007		1/9/2007		1/9/2007		19-Dec-2006		19-Dec-2006		19-Dec-2006		19-Dec-2006		29-Jun-2007		29-Jun-2007			
Date VOCs Analyzed	18-Dec-2006		15-Dec-2006		3-Jan-2007		29-Dec-2006		21-Dec-2006		21-Dec-2006		1/9/2007		1/9/2007		1/9/2007		20-Dec-2006		20-Dec-2006		21-Dec-2006		22-Dec-2006		29-Jun-2007		2-Jul-2007			
Laboratory	MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ			
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN

Notes:

All Results are in micrograms per liter ($\mu\text{g/L}$).

Only detected VOCs are shown.

MDEQ: Michigan Department Environmental Quality

Part 201 Criteria (Sept 2012):

[1] Detection Exceeds Residential Drinking Water Criteria.

[2] Detection Exceeds Groundwater Surface Water Interface Criteria.

[3] Detection Exceeds Residential Groundwater Volatilization to Indoor Air Inhalation Criteria.

(A) State of Michigan Drinking Water Standard.

(X) Not Protective of Drinking Water Source.

(S) Criterion Defaults to Solubility Limit.

(W) Concentrations of trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane in groundwater must be added together to determine compliance with DW Criteria of 80 $\mu\text{g/L}$.

1.0 U Not Detected above Laboratory Reporting Limit (1.0 $\mu\text{g/L}$).

Underlined Values: Result(s) and RL(s) are estimated by the lab due to poor precision.

S: Shallow Well

M: Medium Well

D: Deep Well

FB: Field Blank (QA/QC Sample).

EB: Equipment Blank (QA/QC Sample).

TB: Trip Blank

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Lower Level South Area												Residential VI Indoor Air Screening Levels (ug/m ³)		
	Room F-11 Indoor Air	Room F-18-Teachers Lounge Indoor Air													
Sample ID	MDEQ-3	MDEQ-1B	MDEQ-6	MDEQ-8	MDEQ-3	MDEQ-18	MDEQ-1	IA-1	Teacher Lounge Ambient	Teacher Lounge Ambient	MDEQ-19	Teacher Lounge 3585			
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15			
Sample Container	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA			
Date Collected	29-Jun-2007	24-Jul-2007	30-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	13-Oct-2012	27-Aug-2013	26-Aug-2014			
Date Received	29-Jun-2007	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	15-Oct-2012	28-Aug-2013	27-Aug-2014			
Date Analyzed	10-Jul-2007	3-Aug-2007	5-Nov-2007	24-Jan-2008	30-Jun-2008	24-Aug-2009	15-Jul-2010	15-Aug-2011	22-Aug-2012	26-Oct-2012	7-Sep-2013	28-Aug-2014			
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ			
Sample ID No	AA99910	AB01300	AB07053	AB09231	AB17004	AB42001	AB57681	AB79796	AC02496	AC06572	1308384-01	1408276-02			
VOLATILE ORGANIC COMPOUNDS (ug/m3)															
Hydrocarbon Compounds															
1,2,4-Trimethylbenzene	1.8	1.4	ND	ND	2.1	4.0	10	1.8	NS	ND	3.8	2.6	230		
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	3.9	6	ND	NS	ND	ND	230		
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	2.4	ND	NS	ND	14	ND	3,700		
Benzene	ND	ND	ND	0.97	ND	ND	1.6	ND	NS	ND	5.1	ND	3.3		
Ethylbenzene	ND	ND	ND	0.86	J,T	11	1.8	3.1	ND	NS	ND	4.1	ND	87	
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	3.8	NS	ND	19	ND	730	
m & p-Xylene*	ND	1.2	T	1.7	2.5	36	6.1	15	1.8	NS	2.8	14	1.6	100	
o-Xylene*	ND	ND	ND	0.86	J,T	24	2.6	4.4	ND	NS	ND	5.0	ND	100	
Total Xylenes*	ND	1.2	T	1.7	3.36	60	8.7	19.4	1.8	NS	2.8	19	1.6	100	
Styrene	ND	ND	ND	ND	8.3	ND	ND	ND	ND	NS	ND	ND	ND	48	
Toluene	30	6.7	9.9	2.1	10	3.3	8.5	1.7	NS	1.8	42	1.9	5,200		
Chlorofluorocarbons (CFCs)															
Dichlorodifluoromethane	11	1.7	5.6	4.2	ND	5.3	4.5	11	NS	5.4	13	1.5	52,000		
Trichlorofluoromethane	29	1.9	8.4	4.7	12	20	29	13	NS	4.2	45	66	59,000		
Chlorinated Compounds															
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	6,300		
1,2,4-Trichlorobenzene	ND	2.2	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	4.2		
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	0.89	ND	10,000		
Chloromethane	1.5	1.3	1.50	1.4	ND	1.4	0.7	5	0.63	NS	0.94	2.3	1.4	42	
Tetrachloroethene (PCE)	ND	2.8	ND	1.7	J,T	ND	ND	ND	6.8	NS	ND	ND	2.1	36	
Trichloroethene (TCE)	ND	2.9	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	2.1		
Miscellaneous Analytes															
Chloroform	1.2	T	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	11		
Methyl isobutyl ketone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	3,100		
Methylene chloride	6.8	0.95	T	6.8	8.8	6.7	6.5	5.6	5	29	NS	ND	10	19	58
Ambient Temperature (degrees C)	24.5	24	23	23	24.5	23	22.5	21.5	NS	23.5	ND	ND	NA		
Barometric Pressure (mm Hg)	737.3	740.6	749.4	747.2	739.6	747.4	742	741.2	NS	748	ND	ND	NA		

Note:
Only detected constituents are shown. = Detection is greater than the applicable screening level.
SG = Soil Gas Monitoring Well
ND = Not Detected above Laboratory Reporting Limit (RL)
NS = No Sample Collected Due to Flow Regulator Failure
NA = Not Applicable
ID = Inadequate data to develop criterion
T = Reported value is less than the RL. The result is estimated.
J = Analyte was positively identified. Value is an estimate.
5 = Result and reporting limit are estimated due to low continuing calibration standard criteria failure.
6 = Result is estimated due to high continuing calibration standard criteria failure.
ug/m3 = micrograms per cubic meter.
SUMMA samples analyzed by MDEQ.
VI Screening Levels from the MDEQ Guidance Document for the VI Pathway (May 2013).
*Xylene screening levels are for total xylenes.
The August 2012 Teachers Lounge ambient air sample was not analyzed due to a faulty Summa Can regulator that did not draw the sample air; resampled in October 2012.

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Lower Level South Area										Residential VI Shallow Soil Gas (sub-slab) Screening Levels (ug/m3)	
	Room F-18-Teachers Lounge Shallow Soil Gas SG-1-S 2.0 - 2.5 ft (Beneath Floor)											
Sample ID	MDEQ-2	MDEQ-7	MDEQ-3	MDEQ-7A	MDEQ-14	MDEQ-6	SG-1-S	SG-1-S	SG-1-S	SG-1-S		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15		
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl		
Date Collected	24-Jul-2007	30-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Received	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Analyzed	3-Aug-2007	5-Nov-2007	23-Jan-2008	29-Jun-2008	24-Aug-2009	15-Jul-2010	15-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AB01295	AB07054	AB09230	AB17002	AB41998	AB57682	AB79795	AC02497	1308354-01	1408251-03		
VOLATILE ORGANIC COMPOUNDS (ug/m3)												
Hydrocarbon Compounds												
1,2,4-Trimethylbenzene	5.1	ND	29	ND	ND	17	2.3	ND	55	ND	7,600	
1,3,5-Trimethylbenzene	2.5	39	ND	ND	ND	6.1	6	ND	17	ND	7,600	
2,2,4-Trimethylpentane	ND	28	64	ND	ND	6.5	ND	ND	32	ND	120,000	
Benzene	1.4	ND	75	ND	ND	6.3	ND	ND	8.3	ND	110	
Ethylbenzene	ND	1,900	130	ND	ND	17	ND	ND	54	ND	2,900	
Hexane	ND	ND	80	ND	ND	7.2	ND	ND	11	ND	24,000	
m & p-Xylene*	2.3	5,100	380	37	20	57	2.0	ND	220	1.1	3,500	
o-Xylene*	1.4	1,300	100	23	12	24	ND	ND	78	ND	3,500	
Total Xylenes*	3.7	6,400	480	60	32	81	2.0	ND	298	1.1	3,500	
Styrene	ND	ND	ND	ND	17	7.6	6	1.3	ND	4.2	1,600	
Toluene	3.8	130	460	ND	ND	45	1.5	ND	240	2.0	170,000	
Chlorofluorocarbons (CFCs)												
Dichlorodifluoromethane	3,200	4,800	310	5,900	J	4,800	3,200	1,600	3.5	2,600	9,400	1,700,000
Trichlorofluoromethane	240	310	17	320		430	220	160	3.5	210	360	2,000,000
Chlorinated Compounds												
1,1,1-Trichloroethane	2.4	ND	ND	ND	ND	3.1	3.1	ND	ND	ND	210,000	
1,2,4-Trichlorobenzene	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	140	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350,000	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	0.93	ND	ND	1,400	
Tetrachloroethene (PCE)	ND	38	ND	ND	15	T	ND	8.7	5.5	8.5	1,200	
Trichloroethene (TCE)	36	610	34	340	430	230	390	ND	380	410	70	
Miscellaneous Analytes												
Chloroform	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	380	
Methyl isobutyl ketone (MIBK)	4.1	190	ND	ND	ND	ND	ND	ND	ND	ND	100,000	
Methylene chloride	6.3	ND	ND	ND	ND	ND	ND	13	ND	ND	1,900	
Ambient Temperature (degrees C)	24	24	22.5	25	23	22.5	21.5	22.5	ND	ND	NA	
Barometric Pressure (mm Hg)	740.6	740.9	742.4	735.6	747.4	742	741.2	741.7	ND	ND	NA	

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Lower Level South Area								Residential VI Deep Soil Gas Screening Levels (ug/m3)
	Room F-18-Teachers Lounge Deep Soil Gas SG-1-D 4.5 - 5.0 ft (Beneath Floor)								
Sample ID	MDEQ-4	MDEQ-8	MDEQ-9	SG-1-D	SG-1-D	SG-1-D	SG-1-D		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15		
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl		
Date Collected	24-Jul-2007	30-Oct-2007	17-Jun-2008	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Received	25-Jul-2007	31-Oct-2007	18-Jun-2008	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Analyzed	3-Aug-2007	5-Nov-2007	29-Jun-2008	15-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AB01296	AB07055	AB17003	AB79794	AC02498	1308354-02	1408251-04		
VOLATILE ORGANIC COMPOUNDS (ug/m3)									
Hydrocarbon Compounds									
1,2,4-Trimethylbenzene	ND	ND	ND	22	ND	8.7	ND	76,000	
1,3,5-Trimethylbenzene	ND	25	ND	7.3	ND	2.7	ND	76,000	
2,2,4-Trimethylpentane	ND	15	ND	ND	9.2	2.6	ND	1,200,000	
Benzene	3.5	ND	ND	ND	ND	ND	ND	1,100	
Ethylbenzene	ND	1,100	ND	ND	ND	5.1	ND	29,000	
Hexane	ND	ND	ND	ND	ND	ND	ND	240,000	
m & p-Xylene*	1.9	3,000	32	6.0	3.2	20	1.2	35,000	
o-Xylene*	ND	740	19	4.3	1.4	7.6	ND	35,000	
Total Xylenes*	1.9	3,740	51	10	5	28	1.2	35,000	
Styrene	1.2	ND	ND	ND	1.4	ND	4.1	16,000	
Toluene	8.5	68	ND	1.9	3.0	67	2.1	1,700,000	
Chlorofluorocarbons (CFCs)									
Dichlorodifluoromethane	3,900	4,100	5,000	J	9.9	2,100	1,300	9,400	17,000,000
Trichlorofluoromethane	260	270	200		10	320	62	340	20,000,000
Chlorinated Compounds									
1,1,1-Trichloroethane	7.7	ND	ND	ND	6.4	ND	1.5	2,100,000	
1,2,4-Trichlorobenzene	ND	96	ND	ND	ND	ND	ND	1,400	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	3,500,000	
Chloromethane	ND	ND	ND	0.79	ND	1.7	ND	14,000	
Tetrachloroethene (PCE)	1.9	J,T	28	ND	4.0	11	ND	7.9	12,000
Trichloroethene (TCE)	45	610	170	2.2	750	150	510	700	
Miscellaneous Analytes									
Chloroform	33	ND	ND	ND	ND	ND	ND	3,800	
Methyl isobutyl ketone (MIBK)	7.6	100	ND	ND	ND	ND	ND	1,000,000	
Methylene chloride	1.9	ND	ND	10	2.9	3.2	ND	19,000	
Ambient Temperature (degrees C)	24	24	25	21.5	22.5	ND	ND	NA	
Barometric Pressure (mm Hg)	740.6	740.9	735.6	741.2	741.7	ND	ND	NA	

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Upper Level North Area											Residential VI Indoor Air Screening Levels (ug/m ³)	
	Utility Closet South of Band Room Indoor Air												
Sample ID	MDEQ-1	MDEQ-8	MDEQ-11	MDEQ-9	MDEQ-11	MDEQ-25	MDEQ-7	IA-2	Band Room Closet Ambient	MDEQ-13	Band Room 3639		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15		
Sample Container	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA		
Date Collected	28-Jun-2007	24-Jul-2007	31-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	27-Aug-2013	26-Aug-2014		
Date Received	29-Jun-2007	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	28-Aug-2013	27-Aug-2013		
Date Analyzed	10-Jul-2007	3-Aug-2007	5-Nov-2007	24-Jan-2008	30-Jun-2008	24-Aug-2009	15-Jul-2010	15-Aug-2011	20-Aug-2012	7-Sep-2013	28-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AA99909	AB01297	AB07056	AB09232	AB17005	AB42000	AB57679	AB79799	AC02495	1308384-02	1408276-01		
VOLATILE ORGANIC COMPOUNDS (ug/m3)													
Hydrocarbon Compounds													
1,2,4-Trimethylbenzene	ND	76	J	ND	ND	ND	ND	2.3	ND	3.8	ND	ND	230
1,3,5-Trimethylbenzene	ND	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	230
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,700
Benzene	ND	ND	ND	0.76	J,T	ND	ND	1.1	ND	ND	ND	ND	3.3
Ethylbenzene	ND	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	ND	87
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	730
m & p-Xylene*	ND	2.5	ND	1.5	21	1.8	3.7	ND	4.7	1.2	ND	ND	100
o-Xylene*	ND	5.6	ND	ND	14	ND	1.6	ND	2.7	ND	ND	ND	100
Total Xylenes*	ND	8.1	ND	1.5	35	1.8	5.3	ND	7.4	1.2	ND	ND	100
Styrene	ND	ND	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	48
Toluene	5.7	2.9	5.0	2.9	8.2	3.7	11	ND	2.5	5.2	1.3	ND	5,200
Chlorofluorocarbons (CFCs)													
Dichlorodifluoromethane	2.0	12	4.2	4.2	ND	2.3	2.6	2.1	3.0	3.1	2.4	ND	52,000
Trichlorofluoromethane	6.3	36	ND	2.8	2.8	ND	4.2	ND	4.6	7.6	1.9	ND	59,000
Chlorinated Compounds													
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,300
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Chloromethane	1.7	1.6	0.94	1.4	1.5	1.0	0.9	5	0.91	1.1	3.0	1.2	42
Tetrachloroethene (PCE)	4.6	5.9	ND	ND	2.8	ND	11	ND	ND	ND	ND	ND	36
Trichloroethene (TCE)	9.9	ND	4.5	8.5	8.2	3.6	4.3	3.7	ND	2.2	ND	ND	2.1
Miscellaneous Analytes													
Chloroform	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
Methyl isobutyl ketone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,100
Methylene chloride	ND	8.8	ND	ND	1.1	ND	ND	ND	1.1	1.2	ND	ND	58
Ambient Temperature (degrees C)	24.5	24	24	23	24.5	23	22.5	21.5	22.5	ND	ND	ND	NA
Barometric Pressure (mm Hg)	737.3	740.6	740.9	747.2	739.6	747.4	742	741.2	741.7	ND	ND	ND	NA

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Upper Level North Area										Residential VI Shallow Soil Gas (sub-slab) Screening Levels (ug/m3)	
	Utility Closet South of Band Room Shallow Soil Gas SG-2-S 1.7 - 2.3 ft (Beneath Floor)											
Sample ID	MDEQ-9	MDEQ-2	MDEQ-2	MDEQ-7	MDEQ-21	MDEQ-4	SG-2-S	SG-2-S	SG-2-S	SG-2-S		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	
Date Collected	24-Jul-2007	30-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Received	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Analyzed	3-Aug-2007	5-Nov-2007	23-Jan-2008	29-Jun-2008	25-Aug-2009	15-Jul-2010	18-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AB01298	AB07051	AB09229	AB17006	AB41999	AB57680	AB79798	AC02499	1308354-03	1408251-1		
VOLATILE ORGANIC COMPOUNDS (ug/m3)												
Hydrocarbon Compounds												
1,2,4-Trimethylbenzene	ND	ND	74	ND	ND	12	36	3.6	37	ND	7,600	
1,3,5-Trimethylbenzene	ND	23	22	ND	ND	4.5	6	16	12	ND	7,600	
2,2,4-Trimethylpentane	ND	110	110	ND	ND	2.8	ND	3.0	26	1.4	120,000	
Benzene	1.5	29	110	ND	ND	1.3	ND	ND	7.4	ND	110	
Ethylbenzene	ND	2,000	390	ND	13	3.8	1.9	ND	53	ND	2,900	
Hexane	ND	40	100	ND	ND	ND	ND	ND	9.8	ND	24,000	
m & p-Xylene*	1.3	4,600	J	1,000	ND	42	20	23	3.3	210	2.0	3,500
o-Xylene*	ND	1,100	330	ND	24	5.2	14	ND	63	ND	3,500	
Total Xylenes*	1.3	5,700	1,330	ND	66	25	37	3.3	273	2.0	3,500	
Styrene	ND	ND	ND	ND	34	ND	ND	ND	1.5	ND	1,600	
Toluene	14	260	850	ND	6.2	9.4	15	ND	280	1.9	170,000	
Chlorofluorocarbons (CFCs)												
Dichlorodifluoromethane	2.9	ND	ND	ND	ND	2.5	2.6	2.9	1.8	2.2	1,700,000	
Trichlorofluoromethane	2.6	ND	ND	ND	ND	3.6	1.7	ND	2.7	1.5	2,000,000	
Chlorinated Compounds												
1,1,1-Trichloroethane	6.6	ND	ND	ND	ND	2.8	ND	ND	ND	ND	210,000	
1,2,4-Trichlorobenzene	ND	80	ND	ND	ND	ND	ND	ND	ND	ND	140	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350,000	
Chloromethane	ND	ND	ND	ND	ND	ND	0.64	ND	ND	ND	1,400	
Tetrachloroethene (PCE)	ND	31	ND	ND	ND	3.4	ND	ND	ND	3.1	1,200	
Trichloroethene (TCE)	260	210	610	300	730	1,000	64	150	280	280	70	
Miscellaneous Analytes												
Chloroform	7.2	ND	ND	ND	4.3	5.7	ND	ND	4.8	4.2	380	
Methyl isobutyl ketone (MIBK)	8.5	680	ND	ND	ND	ND	ND	ND	ND	ND	100,000	
Methylene chloride	ND	ND	ND	ND	3.7	ND	3.5	ND	ND	ND	1,900	
Ambient Temperature (degrees C)	24	24	22.5	25	23	22.5	21.5	23	ND	ND	NA	
Barometric Pressure (mm Hg)	740.6	741	742.4	735.6	747.4	742	741.2	741.6	ND	ND	NA	

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Upper Level North Area												Residential VI Deep Soil Gas Screening Levels (ug/m3)
	Utility Closet South of Band Room Deep Soil Gas SG-2-D 4.5 - 5.0 ft (Beneath Floor)												
Sample ID	MDEQ-5	MDEQ-3	MDEQ-6A	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl
Date Collected	24-Jul-2007	30-Oct-2007	17-Jun-2008	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014						
Date Received	25-Jul-2007	31-Oct-2007	18-Jun-2008	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014						
Date Analyzed	3-Aug-2007	5-Nov-2007	29-Jun-2008	18-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014						
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ						
Sample ID No	AB01299	AB07052	AB17007	AB79797	AC02500	1308354-04	1408251-2						
VOLATILE ORGANIC COMPOUNDS (ug/m3)													Deep Soil Gas Monitoring Points
Hydrocarbon Compounds													
1,2,4-Trimethylbenzene	ND	ND	ND	11	ND	35	ND						76,000
1,3,5-Trimethylbenzene	ND	ND	ND	9	ND	11	ND						76,000
2,2,4-Trimethylpentane	ND	31	ND	ND	ND	17	ND						1,200,000
Benzene	ND	ND	ND	ND	ND	5.6	ND						1,100
Ethylbenzene	ND	450	ND	ND	1.3	37	ND						29,000
Hexane	ND	ND	ND	ND	ND	ND	ND						240,000
m & p-Xylene*	ND	1,100	32	4.6	2.0	150	ND						35,000
o-Xylene*	ND	220	21	3.2	ND	52	ND						35,000
Total Xylenes*	ND	1,320	53	7.8	2.0	202	ND						35,000
Styrene	ND	ND	ND	ND	2.3	ND	ND						16,000
Toluene	1.5	56	ND	2.2	2.2	190	5.6						1,700,000
Chlorofluorocarbons (CFCs)													
Dichlorodifluoromethane	ND	ND	ND	ND	3.5	ND	2.3						17,000,000
Trichlorofluoromethane	ND	ND	ND	ND	6.7	ND	1.6						20,000,000
Chlorinated Compounds													
1,1,1-Trichloroethane	1.5	J,T	ND	ND	2.8	ND	ND						2,100,000
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND						1,400
Chloroethane	ND	ND	ND	ND	ND	ND	ND						3,500,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND						14,000
Tetrachloroethene (PCE)	ND	ND	ND	ND	3.7	ND	3.5						12,000
Trichloroethene (TCE)	73	ND	1,400	110	840	680	480						700
Miscellaneous Analytes													
Chloroform	1.8	ND	ND	ND	10	6.9	4.1						3,800
Methyl isobutyl ketone (MIBK)	ND	170	ND	ND	ND	ND	ND						1,000,000
Methylene chloride	ND	ND	ND	1.2	ND	ND	ND						19,000
Ambient Temperature (degrees C)	24	24	25	21.5	23	ND	ND						NA
Barometric Pressure (mm Hg)	740.6	740.9	735.6	741.2	741.6	ND	ND						NA

VI Screening Levels from the MDEQ *Guidance Document for the VI Pathway* (May 2013).
Xylene screening levels are for total xylenes.

9/14 results QC'd by: SS

APPENDIX G
SCOPE OF SERVICES



PHASE I ENVIRONMENTAL SITE ASSESSMENT

Nederveld proposes to conduct the following activities for the Phase I Environmental Site Assessment.

RECORDS REVIEW

The purpose of the Phase I records review is to obtain and review records that will assist in identifying recognized environmental conditions in connection with the Subject Property. As part of this phase of the project, Nederveld will attempt to obtain and review those records that are "reasonably ascertainable." For the purposes of this proposal "reasonably ascertainable" information is defined as: 1) publicly available, 2) obtainable from its source within reasonable time and cost constraints, and 3) practically reviewable. The assessment will include a review, where available or applicable, of both environmental and historical sources.

ENVIRONMENTAL RECORDS REVIEW

The following publicly available databases will be reviewed:

Standard Environmental Records	Search Distance (miles from boundaries)
Federal CERCLIS Sites	0.5
Federal CERCLIS NFRAP Sites	0.5
Federal National Priority List Sites	1.0
Federal Deleted National Priority List Sites	0.5
Federal RCRA TSD Non-CORRACTS Sites	0.5
Federal RCRA TSD CORRACTS Sites	1.0
Federal RCRA Generators	Subject Property and adjoining properties
Federal ERNS List	Subject Property only
MDEQ Open Part 201 Sites	1.0
State and Tribal Lists of Hazardous Waste Sites: State and Tribal Equivalent CERCLIS	0.5
Michigan and Tribal Leaking Underground Storage Tanks (LUST)	0.5
Michigan and Tribal Registered Underground Storage Tanks (UST)	Subject Property and adjoining properties
Michigan and Tribal Operating Solid Waste Landfills	0.5
Filed Baseline Environmental Assessments (BEA)	Subject Property and adjoining properties
MDEQ Regulated Waste Management Sites	Subject Property only
State and Tribal Institutional/ Engineering Control Registries	Subject Property only
State and Tribal Voluntary Cleanup Sites	0.5
State and Tribal Brownfield Sites	0.5



Additional Environmental Records — Additional environmental listings, state or local, will be reviewed if deemed appropriate. Review of local, state, or federal regulatory files is beyond the scope of this Phase I effort.

Potential Delays — Delays in environmental regulatory responses to our inquiries may delay submittal of Nederveld's report or necessitate an addendum. Nederveld will notify you if such delays are anticipated.

PHYSICAL SETTING SOURCES

A current United States Geological Survey (USGS) 7.5 Minute Topographic Map will be reviewed to assist in evaluating area topography and surface drainage. At least one additional physical setting source will be reviewed for information on the geologic, hydrologic, or topographic characteristics of the site.

HISTORICAL USE INFORMATION

The purpose of consulting historical sources is to develop a history of the previous uses or occupancies of the property and surrounding area to identify those uses or occupancies that are likely to have led to recognized environmental conditions with the subject site.

Uses of the Subject Property — The prior uses of the Subject Property will be identified from the past 60 years using the majority or all of the "standard historical sources" listed below:

- Aerial Photographs
- Fire Insurance Maps
- Property Tax Files
- Recorded Land Title Records
- USGS 7.5 Minute Topographic Maps
- City Directories
- Building Department Records
- Zoning/Land Use Records

Nederveld's proposal does not include a Chain-of-Title/ environmental lien search. If a search for environmental liens is required to satisfy All Appropriate Inquiry requirements, Nederveld will review the document for potential environmental concerns associated with prior ownership.

Uses of Property in Surrounding Areas — Using the same resources, the history and/or general uses of the property in the area surrounding the subject site will be researched at a search distance and time period deemed appropriate given the findings of other portions of the assessment.



SITE RECONNAISSANCE

The purpose of the site reconnaissance is to observe current conditions at the Subject Property and obtain information indicating the likelihood of environmental concerns in connection with the site.

A site reconnaissance of the Subject Property will be performed by a Nederveld professional specializing in environmental projects. Nederveld's representative will look for surface indications of past or present waste handling or disposal activities that may pose a hazard to the subsurface environment. Nederveld will require access to all areas of the Subject Property, to the extent they are not obstructed by bodies of water, adjacent buildings, or other obstacles. Nederveld will also require a site contact that is knowledgeable of operations at the site to accompany us during our site visit. Unforeseen circumstances notwithstanding, only one site visit will be made to a subject property.

INTERVIEWS

The objective of interviews is to obtain direct, personal information from individuals indicating recognized environmental conditions in connection with the Subject Property. Available present owners and occupants of the Subject Property will be interviewed as to their knowledge of site activities and operations which are currently, or may have in the past, affected the environmental condition of the Subject Property. Selected local regulatory and/or emergency response officials will be interviewed, if available, regarding their knowledge of past or present environmental problems or emergency responses at the Subject Property.

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION**

SITE SUMMARY

Site Name	Res Wells Holly Road	County	Livingston
Street Address	525 N. Fifth Street and South	DEQ District	Lansing
City	Brighton	Legislative Districts	
Site ID#	47000055	MI Senate	22
SID Facility ID		MI House	42
		US Congress	8

LOCATION

The Residential Wells Holly Road Site is located in Genoa Township in Sections 25 and 36 and in Sections 30 and 31 in the City of Brighton. Former Lindbom Elementary School is in the center of the site and Brighton High School is in the south portion of the site. An industrial park and businesses adjacent to CN (Grand Trunk) railroad tracks is in the north portion of the site. Fifth Street and Brighton Road are the primary crossroads of the site and the land use of the area is industrial, residential and institutional. Numerous lakes and ponds are in the vicinity. The aquifer is glacial drift sand and gravel.

SITE HISTORY (Response Activities Undertaken to Date)

In 1990 and 1991, the Department of Environmental Quality (DEQ), Water Resources Division (WRD), found that 89 residential wells were either contaminated above Part 201 residential drinking water criteria or threatened from contamination by a variety of chlorinated solvents including trichloroethylene (TCE), 1,1,1 Trichloroethane (TCA), and vinyl chloride (VC), among others. The impacted and threatened wells were connected to the Brighton municipal drinking water supply in 1993 using state funds.

From 1994 to 2000, substantial delineation of the primary chlorinated solvent plume and identification of the source area was completed. The state funded investigation focused on the large chlorinated solvent plume that was moving quickly in an outwash channel towards Leith Lake and residential wells. Private parties are presently investigating, or have been requested to investigate, the eastern chlorinated solvent and gasoline related plumes that do not threaten drinking water supplies. In 2000, 28 additional monitor wells were installed to provide information necessary to design an effective interim response groundwater treatment system.

In 2000, the indoor air pathway at Lindbom Elementary School was evaluated by collection of ambient air data (spring and summer samples) at four points along the centerline of the chlorinated solvent plume exceeding generic groundwater volatilization to indoor air screening criterion for TCE. The site-specific calculations by RD toxicologist concluded that TCE vapors due not enter the indoor air spaces at unacceptable levels at Lindbom school. At this time, a soils vapor extraction (SVE) system was installed in the source area south of the railroad tracks in 2001 as to reduce the mass of chlorinated solvents in soils from leaching chlorinated solvents to the groundwater. Solvent spills and dumping at the source area appear to be from historic business practices by building occupants. The current owner and operator of the source area property was identified as a liable party and submitted acceptable inability to pay documentation to the DEQ. Other companies who operated in the source area as metal finishers (pre-1959) did not meet liability determination thresholds.

In 2004, sentinel monitor wells were installed between the plume and Leith Lake. Groundwater modeling was completed in 2005 to project groundwater contamination plume movement for remedy design. A groundwater pump and treat interim remedy near the toe of the plume was selected as the best alternative to prevent the highest concentrations of contaminated groundwater from migrating under Brighton High School and entering Leith Lake. In 2008, the interim response groundwater pump and treat system was installed after the completion of a pilot test. The discharge of treated groundwater to the storm sewers leading to Leith Lake is covered by a National Pollution Elimination Discharge Permit (NPDES) issued by DEQ. The system is designed to discharge of treated groundwater under permit to the sanitary sewers as a back-up. The soils vapor extraction (SVE) system was mothballed after 5 years of reducing significant contaminant mass in the soils before producing diminishing returns. A different consultant recommended redesign of the SVE to remove remaining soil contaminants that would include a smaller blower, additional extraction wells, increased pulsing of the system and more frequent removal of water from the SVE lines.

In 2009 through 2011, groundwater samples and groundwater elevation data were collected from a large population of monitoring wells to evaluate contaminant trends for the entire chlorinated solvent plume. Groundwater chlorinated solvent concentrations in and near the source area have diminished by over half demonstrating contaminant mass reduction. However, contaminants continue to leach from untreated source soils.

*State funds are set aside to complete activities at this site but may not be expended.

01/21/2015

Also during this period, monthly water samples collected from plume discharge areas in Leith Lake were compared with monitoring well data for preliminary groundwater surface water interface (GSI) evaluations. The monitoring data indicates that fast moving leading edge of the plume escaped the capture wells and vents into Leith Lake on the south side of Brighton High School property in concentrations that may approach chronic GSI criteria assuming a 10:1 mixing zone determination. Also during this time, ambient and sub-slab air samples were collected over the summer break at Brighton High School, and TCE ranged between 2 and 4 ug/m3 in ambient air in the enclosed space of a band room closet. These concentrations do not exceed acceptable indoor air values. TCE in ambient air was not detected in the teacher break room but is present under the slab. Concentrations of sub-slab soil gas samples indicate that TCE continues to volatilize from the detached groundwater plume into the structure in concentrations requiring monitoring.

SITE STATUS (Risks Requiring Action)

The chlorinated solvent plume has migrated nearly 1/2 of a mile from the source area and moves a south-southwesterly direction towards Brighton Lake but has not significantly expanded. TCE concentrations exceed drinking water criteria by over 4,000 times. If the chlorinated solvent plume is untreated, it may expand to threaten area residential wells not connected to municipal water. The detached plume did not undergo remediation and is presently venting into Leith Lake with TCE concentrations at 1,300 - 1,700 ug/l with concentrations starting to decrease since 2012. Direct water sampling at Leith Lake (monthly) have detected TCE from 35 -230 ug/l in diluted lake water samples with the maximum concentrations in 2010 which have declined in 2013 lake samples. GSI criteria (chronic) for TCE is 200 ug/l and GSI evaluation for determining mixing zone concentration is ongoing.

The interim groundwater pump and treat system is currently operating at Brighton High School. The groundwater treatment system began operation in early, 2008 and continues to treat the contaminated groundwater without significant interruption. This treatment system has demonstrated full capture of the portion of the plume carrying the highest concentrations of TCE prior to migrating to Leith Lake and under Brighton High School. Influent concentrations have decreased by about 200 ug/l TCE and overall groundwater contamination plume concentrations have declined by 40 percent.

In 2013, an innovative soils sampling method (incremental sampling) was completed in the source area to refine the conceptual site model by determining the horizontal and vertical mass of contaminants remaining in soil areas. The method determined that a "hot spot" remains near the building and sufficient mass worth the expense of removing by SVE is present in two other areas.

The consultant completed a preliminary redesign of the SVE system that includes adding two new lines and extraction wells. Some SVE lines and extraction wells would be retired. Testing of the SVE found that the blower has bad gaskets and should be replaced with a new smaller blower.

The city of Brighton has designated the area for brownfield redevelopment and is seeking developers to re-use former Lindbom Elementary school and possibly install residences in the former playground near the source area.

The DEQ continues to monitor a residential well close to the plume on a quarterly basis which continues to test "clean".

STATE FUNDS ALLOCATED FOR CLEANUP ACTIVITIES*: \$4,643,847.88

UNMET NEED			
FY	Activity	Amount Needed	Comments
2016	OM	\$100,000	Funds to extend groundwater treatment system contract for two years (existing contract ends February, 2016)
2018	PC	\$50,000	Abandon monitor wells, decommission Pump & Treat system if supported by monitoring data.

*State funds are set aside to complete activities at this site but may not be expended.

APPENDIX C
TABLES

**TABLE 1
WELL CONSTRUCTION AND GROUNDWATER ELEVATION SUMMARY
JUNE 2008 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Well No.	Ground Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Screened Interval (ft bgs)	Top of Screen Elevation (ft amsl)	June 2008		July 2009		July 2010		October 2012		May 2014	
					Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)	Depth to Water (ft floc)	Groundwater Elevation (ft amsl)
101	934.90	934.56	35-40	899.90	16.25	918.31	15.61	918.95	Obstruction at 15.70 ft below top of casing		Obstruction at 11.40 ft below top of casing		Obstruction at 11.40 ft below top of casing	
102	934.00	937.11	25-30	909.00	18.49	918.62	NM	NM	18.66	918.45	20.20	916.91	18.81	918.30
103	933.40	932.98	25-30	908.40	14.17	918.81	NM	NM	14.35	918.63	NM	NM	14.50	918.48
104	932.00	931.46	40-45	892.00	3.08	928.38	NM	NM	NM	NM	NM	NM	0.00	931.46
105S (south)	933.40	932.98	25-30	908.40	15.57	917.41	14.89	918.09	15.77	917.21	17.25	915.73	15.91	917.07
105D (north)	933.41	933.10	48-53	885.41	15.65	917.45	15.00	918.10	15.79	917.31	17.28	915.82	15.94	917.16
106	937.30	936.81	25-30	912.30	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
107	936.20	938.70	19-24	917.20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
108	937.50	937.11	18.5-23.5	919.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
201	927.20	926.59	15-20	912.20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
202	930.40	930.04	27-32	903.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
203	928.90	931.45	35-40	893.90	17.30	914.15	NM	NM	17.40	914.05	NM	NM	17.60	913.85
204	929.30	931.66	19-24	910.30	17.90	913.76	17.01	914.65	17.84	913.82	19.06	912.60	18.04	913.62
205	929.40	931.73	30-35	899.40	17.38	914.35	NM	NM	17.48	914.25	NM	NM	17.65	914.08
206	936.00	938.65	27-32	909.00	19.82	918.83	19.20	919.45	20.00	918.65	21.50	917.15	20.14	918.51
301	936.93	936.62	19-24	917.93	17.58	919.04	16.96	919.66	17.72	918.90	19.25	917.37	17.86	918.76
302S	937.35	937.03	23-28	914.35	18.06	918.97	NM	NM	18.22	918.81	NM	NM	18.35	918.68
302D	936.85	936.43	40-45	896.85	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
303	935.25	937.14	28-33	907.25	18.17	918.97	18.42	918.72	18.38	918.76	19.90	917.24	18.47	918.67
304	931.94	931.65	25-30	906.94	13.15	918.50	12.50	919.15	13.39	918.26	14.93	916.72	13.50	918.15
305	934.32	934.00	30-35	904.32	15.26	918.74	14.63	919.37	15.46	918.54	16.97	917.03	15.62	918.38
306	931.76	931.45	30-35	901.76	13.33	918.12	12.68	918.77	13.61	917.84	15.15	916.30	13.67	917.78
307	932.87	932.46	27-32	905.87	14.23	918.23	12.58	919.88	14.46	918.00	NM	NM	14.60	917.86
308	931.83	931.46	40-45	891.83	13.76	917.70	13.11	918.35	13.99	917.47	15.53	915.93	14.11	917.35
309	934.08	933.74	30-35	904.08	16.04	917.70	15.40	918.34	16.26	917.48	17.76	915.98	16.41	917.33
310	931.05	930.69	40-45	891.05	13.60	917.09	12.95	917.74	13.81	916.88	15.29	915.40	13.90	916.79
311	932.75	932.32	28.5-33.5	904.25	15.35	916.97	NM	NM	15.55	916.77	17.00	915.32	15.69	916.63
312	931.88	931.43	25-30	906.88	15.18	916.25	14.55	916.88	15.34	916.09	16.72	914.71	15.45	915.98
312A	931.86	931.39	27-32	904.86	14.90	916.49	14.30	917.09	15.07	916.32	16.46	914.93	15.18	916.21
312D	931.99	931.57	45-50	886.99	15.06	916.51	14.45	917.12	15.24	916.33	16.62	914.95	15.35	916.22
312DD	931.95	931.68	65-70	866.95	15.06	916.62	NM	NM	15.35	916.33	NM	NM	15.45	916.23
313	931.83	931.50	29-34	902.83	15.40	916.10	14.81	916.69	15.55	915.95	16.90	914.60	15.66	915.84
314S	930.05	932.17	20-25	910.05	18.50	913.67	17.57	914.60	18.40	913.77	19.67	912.50	18.61	913.56
314D	930.13	932.22	37-42	893.13	17.14	915.08	16.51	915.71	17.25	914.97	18.52	913.70	17.38	914.84
315S	927.76	927.29	17-22	910.76	15.12	912.17	13.76	913.53	14.59	912.70	15.77	911.52	14.86	912.43
315D	927.75	927.36	33-38	894.75	12.60	914.76	12.00	915.36	12.69	914.67	13.95	913.41	12.83	914.53
316	931.25	933.69	20-25	911.25	15.24	918.45	NM	NM	15.55	918.14	17.09	916.60	15.50	918.19
317	933.53	933.22	30-35	903.53	14.45	918.77	NM	NM	14.63	918.59	NM	NM	14.78	918.44
318S (west)	932.85	932.40	30-35	902.85	13.88	918.52	13.22	919.18	14.09	918.31	15.62	916.78	14.24	918.16
318D (east)	932.83	932.33	47-52	885.83	13.80	918.53	13.15	919.18	14.00	918.33	15.54	916.79	14.14	918.19
319	931.67	931.29	30-35	901.67	13.22	918.07	12.57	918.72	13.50	917.79	15.07	916.22	13.54	917.75
320	934.53	934.19	22-27	912.53	15.82	918.37	15.17	919.02	16.02	918.17	17.51	916.68	16.17	918.02
321	931.91	931.54	21-26	910.91	13.42	918.12	NM	NM	13.65	917.89	15.15	916.39	13.78	917.76
322	933.30	932.94	27-32	906.30	15.56	917.38	NM	NM	15.75	917.19	17.21	915.73	15.22	917.72
323	930.61	930.14	25-30	905.61	13.72	916.42	13.09	917.05	13.90	916.24	15.31	914.83	14.01	916.13
324	931.71	931.34	30-35	901.71	15.15	916.19	14.59	916.75	15.32	916.02	16.62	914.72	15.40	915.94
325	936.16	938.02	28-33	908.16	18.85	919.17	18.34	919.68	18.98	919.04	20.50	917.52	19.12	918.90
326	930.36	932.36	13-18	917.36	13.50	918.86	13.10	919.26	13.83	918.53	NM	NM	13.64	918.72
401S (west)	912.16	911.81	10-15	902.16	2.98	908.83	2.87	908.94	3.04	908.77	3.32	908.49	3.10	908.71
401M (center)	911.98	911.54	27-32	884.98	2.70	908.84	2.61	908.93	2.79	908.75	3.04	908.50	2.84	908.70
401D (east)	911.57	913.76	41-46	870.57	2.35	911.41	1.92	911.84	2.39	911.37	3.30	910.46	2.58	911.18
402	910.21	909.87	10-15	900.21	1.17	908.70	1.10	908.77	1.22	908.65	1.48	908.39	1.30	908.57
403	912.65	912.31	10-15	902.65	3.43	908.88	3.30	909.01	3.49	908.82	3.76	908.55	Not Found	Not Found
501	928.05	927.58	15-20	913.05	14.63	912.95	NM	NM	14.51	913.07	15.60	911.98	14.70	912.88
502	927.99	927.39	15-20	912.99	15.23	912.16	NM	NM	14.96	912.43	NM	NM	15.22	912.17
503	927.72	927.38	15-20	912.72	14.92	912.46	NM	NM	14.71	912.67	NM	NM	15.03	912.35
504	927.23	926.57	15-20	912.23	13.09	913.48	NM	NM	13.00	913.57	14.25	912.32	13.23	913.34
505	928.45	928.16	18-23	910.16	15.65	912.51	NM	NM	15.38	912.78	16.52	911.64	15.65	912.51
SRW	928.37	927.77	15-30	913.37	15.10	912.67	NM	NM	14.91	912.86	NM	NM	NM	NM
WRW	927.90	927.75	15-25	912.90	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****
ERW	928.06	927.66	15.5-30.5	912.56	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****
CRW	927.92	927.46	15.5-25	911.96	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****	NM****
Leith Lake gauge		911.84	(top of staff gauge)		NM***	NM***	NM***	NM***	NM***	NM***	NM***	NM***	NM***	NM***

Notes:
amsl - above mean sea level
bgs - Below ground surface
ft - feet
NM- Not Measured
NM*** - Not measured. Staff Gauge Removed from Leith Lake.
NM**** - Not measured. Recovery Wells are in Operation.
floc - from top of casing
Bolded Well Nos have screens that straddle the water table.

**TABLE 1
WELL CONSTRUCTION AND
GROUNDWATER ELEVATION SUMMARY**

**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-101								MW-101 DUP		MW-102									
Screen Depth (ft)	35 - 40								35 - 40		25-30									
Date Sampled	15-Dec-2004	12-Oct-2005		12-Dec-2006		7-Jul-2009		12-Dec-2006		12-Dec-2006	7-Jul-2010		7-Jul-2010		25-Oct-2012		6-May-2014			
Date Received	20-Dec-2004	14-Oct-2005		14-Dec-2006		9-Jul-2009		14-Dec-2006		14-Dec-2006	9-Jul-2010		9-Jul-2010		30-Oct-2012		9-May-2014			
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005		18-Dec-2006		10-Jul-2009		18-Dec-2006		19-Dec-2006	13-Jul-2010		13-Jul-2010		3-Nov-2012		14-May-2014			
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	400 [1,2]		140		47		47		61	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	3.4		1.3		1.0	U	20	U	20	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
1,1-Dichloroethene	1.11		1.0	U	1.0	U	50	U	1.0	U	4.7		1.6		1.0	U	20	U	20	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
cis-1,2-Dichloroethene	5.36		1.0	U	1.5		50	U	1.5		150 [1]		54		1.0	U	20	U	20	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
trans-1,2-Dichloroethene	7.74		1.0	U	4.7		50	U	4.5		1.1		1.0	U	1.0	U	20	U	20	U
Trichloroethene	8,510 [1,2,3]		6,900 [1,2,3]		4,700 [1,2,3]		4,500 [1,2,3]		4,800 [1,2,3]		4,800 [1,2,3]		2,400 [1,2,3]		1,600 [1,2]		1,600[1,2]		1,700[1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
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RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-103				MW-104		MW-105S													
Screen Depth (ft)	25-30				40-45		25 - 30													
Date Sampled	12-Oct-2005		13-Mar-2007		13-Mar-2007		17-Dec-2004		13-Oct-2005		13-Dec-2006		26-Jun-2008		7-Jul-2009		26-Oct-2012		6-May-2014	
Date Received	14-Oct-2005		14-Mar-2007		14-Mar-2007		20-Dec-2004		14-Oct-2005		14-Dec-2006		26-Jun-2008		9-Jul-2009		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	20-Oct-2005		16-Mar-2007		16-Mar-2007		26-Dec-2004		21-Oct-2005		15-Dec-2006		28-Jun-2008		10-Jul-2009		2-Nov-2012		14-May-2014	
Laboratory	MDEQ		MDEQ - Mobile		MDEQ - Mobile		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	29		31		20	U	26		1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethane	3.9		5.1		1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	2.7		1.0	U	20	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	19,500 [1,2,3]		25,000 [1,2,3]		10,000 [1,2,3]		2,000 [1,2]		1,600 [1,2]		2,700 [1,2,3]		2,800 [1,2,3]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	200	U	1.0	U	4.6		1.0	U	20	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U	1.0	U	20	U	1.0	U	1.0	U

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SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-105S DUP				MW-105D													
Screen Depth (ft)	25-30				48 - 53													
Date Sampled	13-Dec-2006	26-Jun-2008			17-Dec-2004	12-Oct-2005			13-Dec-2006		26-Jun-2008		7-Jul-2009		26-Oct-2012		6-May-2014	
Date Received	14-Dec-2006	26-Jun-2008			20-Dec-2004	14-Oct-2005			14-Dec-2006		26-Jun-2008		9-Jul-2009		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	15-Dec-2006	28-Jun-2008			26-Dec-2004	20-Oct-2005			15-Dec-2006		29-Jun-2008		10-Jul-2009		2-Nov-2012		14-May-2014	
Laboratory	MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	31		100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.2		100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	7,800 [1,2,3]		2,000 [1,2]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.5	
Trichlorofluoromethane	2.5		100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-203		MW-204														MW-204 DUP							
	35-40		19-24														19-24							
Date Sampled	11-Dec-2006		13-Oct-2005	14-Dec-2006	27-Jun-2007	24-Jun-2008	8-Jul-2009	29-Jun-2010	26-Oct-2012	7-May-2014	13-Oct-2005	14-Dec-2006	7-May-2014											
Date Received	14-Dec-2006		14-Oct-2005	14-Dec-2006	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	14-Oct-2005	14-Dec-2006	9-May-2014											
Date VOCs Analyzed	18-Dec-2006		21-Oct-2005	15-Dec-2006	29-Jun-2007	28-Jun-2008	10-Jul-2009	3-Jul-2010	2-Nov-2012	14-May-2014	21-Oct-2005	15-Dec-2006	14-May-2014											
Laboratory	MDEQ		MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ								
1,1,1-Trichloroethane	1.0	U	1.0	U	1.9		2.9		2.5		20	U	50	U	50	U	20	U	1.0	U	1.8		1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.6		1.4		2.2		20	U	50	U	50	U	20	U	1.0	U	1.2		1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	2.7		1.4		1.0		20	U	50	U	50	U	20	U	1.0	U	2.7		1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	360 [1,2]		1,100 [1,2]		2,400 [1,2,3]		2,300 [1,2,3]		3,800 [1,2,3]		4,800 [1,2,3]		1,400 [1,2]		990 [1,2]		360 [1,2]		1,000 [1,2]		1,000 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	20	U	50	U	50	U	20	U	1.0	U	1.0	U	1.0	U

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SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-205				MW-206												MW-206 DUP			
Screen Depth (ft)	30 - 35				27 - 32															
Date Sampled	15-Dec-2006	25-Jun-2008	15-Dec-2004	12-Oct-2005	12-Dec-2006	7-Jul-2009	8-Jul-2010	25-Oct-2012	6-May-2014	8-Jul-2010										
Date Received	19-Dec-2006	26-Jun-2008	20-Dec-2004	14-Oct-2005	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	9-Jul-2010										
Date VOCs Analyzed	21-Dec-2006	28-Jun-2008	22-Dec-2004	21-Oct-2005	19-Dec-2006	10-Jul-2009	13-Jul-2010	3-Nov-2012	14-May-2014	13-Jul-2010										
Laboratory	MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDNRE	
1,1,1-Trichloroethane	1.0	U	1.0	U	73.5		21		20	U	20	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	1.0	U	1.0	U	1.29		1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	71.2 [1]		1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
Trichloroethene	1.0	U	1.0	U	2,530 [1,2,3]		1,300 [1,2]		1,500 [1,2]		680 [1,2]		600 [1,2]		570 [1,2]		540 [1,2]		620 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	10	U	10	U	10	U

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SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-301												MW-301 DUP		MW-302S			
Screen Depth (ft)	19 - 24												19 - 24		23-28			
Date Sampled	15-Dec-2004	12-Oct-2005	19-Dec-2006	7-Jul-2009	7-Jul-2010	26-Oct-2012	5-May-2014	26-Oct-2012	12-Dec-2006									
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	30-Oct-2012	14-Dec-2006									
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005	21-Dec-2006	13-Jul-2009	13-Jul-2010	2-Nov-2012	13-May-2014	2-Nov-2012	19-Dec-2006									
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ									
1,1,1-Trichloroethane	18.2		12		3		2		7.7		14		14		14		18	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	50.8		1,700 [1,2]		980 [1,2]		170		63		260		200		280		1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	7 [1]		3.1		1.0	U	1.0	U	1.0		1.0	U	1.0		1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	12		1.0	U	1.0	U
cis-1,2-Dichloroethene	7.20		1.0	U	9.5		17		5.6		7.6		15		8.0		8.4	
Tetrachloroethene	39.4 [1]		38 [1]		28 [1]		21 [1]		19 [1]		13 [1]		11 [1]		14 [1]		1.2	
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	519 [1,2]		360 [1,2]		100 [1,2]		44 [1]		53 [1]		62 [1]		70 [1]		65 [1]		1,700 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	12 [1]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-303												MW-303 DUP		MW-304									
Screen Depth (ft)	28 - 33												28 - 33		25-30									
Date Sampled	15-Dec-2004	12-Oct-2005	12-Dec-2006	7-Jul-2009	8-Jul-2010	26-Oct-2012	5-May-2014	12-Oct-2005	14-Mar-2007	7-Jul-2009	25-Oct-2012	6-May-2014	12-Oct-2005	14-Mar-2007	7-Jul-2009	25-Oct-2012	6-May-2014							
Date Received	20-Dec-2004	14-Oct-2005	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	14-Oct-2005	15-Mar-2007	9-Jul-2009	30-Oct-2012	9-May-2014	14-Oct-2005	15-Mar-2007	9-Jul-2009	30-Oct-2012	9-May-2014							
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005	19-Dec-2006	20-Jul-2009	13-Jul-2010	3-Nov-2012	13-May-2014	21-Oct-2005	16-Mar-2007	10-Jul-2009	3-Nov-2012	14-May-2014	21-Oct-2005	16-Mar-2007	10-Jul-2009	3-Nov-2012	14-May-2014							
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ							
1,1,1-Trichloroethane	191		140		130		20	U	49		36		29		160		370 [1,2]		430 [1,2]		270 [1,2]		170 [1,2]	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	4.0		1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	93 [1]	U	10	U	9.8	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
Trichloroethene	1,460 [1,2]		1,200 [1,2]		1,300 [1,2]		990 [1,2]		700 [1,2]		590 [1,2]		450 [1,2]		1,400 [1,2]		3,400 [1,2,3]		2,900 [1,2,3]		2,300 [1,2,3]		1,800 [1,2,3]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	20	U	10	U	10	U	10	U	1.0	U	50	U	10	U	1.0	U	1.0	U

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SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-305								MW-306								MW-306 DUP									
Screen Depth (ft)	30-35								30 - 35								30 - 35									
Date Sampled	12-Dec-2006	7-Jul-2009	25-Oct-2012	6-May-2014	17-Dec-2004	13-Oct-2005	18-Dec-2006	8-Jul-2009	31-Oct-2012	7-May-2014	17-Dec-2004	31-Oct-2012	7-May-2014													
Date Received	14-Dec-2006	9-Jul-2009	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	9-Jul-2009	1-Nov-2012	9-May-2014	20-Dec-2004	1-Nov-2012	9-May-2014													
Date VOCs Analyzed	18-Dec-2006	10-Jul-2009	3-Nov-2012	14-May-2014	26-Dec-2004	21-Oct-2005	21-Dec-2006	20-Jul-2009	5-Nov-2012	14-May-2014	26-Dec-2004	5-Nov-2012	14-May-2014													
Laboratory	MDEQ		MDEQ		MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		Clayton		MDEQ		MDEQ			
1,1,1-Trichloroethane	11		10	U	6.8		10	U	1,410 [1,2]		1,200 [1,2]		1,100 [1,2]		250 [1,2]		230 [1,2]		190 [1,2]		1,410 [1,2]		210 [1,2]		190 [1,2]	
1,1,2-Trichloroethane	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	8.3 [1]		1.0	U	200	U	8.7 [1]		1.0	U
1,2-Dichloroethane	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
Chloroform	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	55		62		200	U	57		60	
Tetrachloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
Trichloroethene	680 [1,2]		630 [1,2]		810 [1,2]		780 [1,2]		18,100 [1,2,3]		21,000 [1,2,3]		10,000 [1,2,3]		6,300 [1,2,3]		5,400 [1,2,3]		4,900 [1,2,3]		18,000 [1,2,3]		5,400 [1,2,3]		5,100 [1,2,3]	
Trichlorofluoromethane	1.2		10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	10	U	10	U	10	U	200	U	1.0	U	250	U	100	U	1.0	U	1.0	U	200	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-307				MW-308										MW-308 DUP					
Screen Depth (ft)	27-32				40 - 45										40-45					
Date Sampled	15-Mar-2007		7-Jul-2009		16-Dec-2004		12-Oct-2005		11-Dec-2006		8-Jul-2009		6-Jul-2010		31-Oct-2012		7-May-2014		11-Dec-2006	
Date Received	15-Mar-2007		9-Jul-2009		20-Dec-2004		14-Oct-2005		14-Dec-2006		9-Jul-2009		9-Jul-2010		1-Nov-2012		9-May-2014		14-Dec-2006	
Date VOCs Analyzed	16-Mar-2007		10-Jul-2009		26-Dec-2004		19-Oct-2005		15-Dec-2006		10-Jul-2009		13-Jul-2010		5-Nov-2012		14-May-2014		15-Dec-2006	
Laboratory	MDEQ - Mobile		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	50	U	42		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	6.3		11		1.0	U
1,1-Dichloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	50	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	7.3		160 [1]		830 [1,2]		1,400 [1,2]		1.0	U
Tetrachloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	4.0		47		76		1.0	U
Trichloroethene	4,900 [1,2,3]		3,300 [1,2,3]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	14		1.0	U	1.0	U
Trichlorofluoromethane	50	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	50	U	10	U	72.2 [1,2]		120 [1,2]		59 [1,2]		100 [1,2]		60 [1,2]		80 [1,2]		100 [1,2]		38 [1,2]	

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-309										MW-310										MW-310 DUP					
Screen Depth (ft)	30-35										40 - 45										40 - 45					
Date Sampled	13-Mar-2007	7-Jul-2009	30-Jun-2010	26-Oct-2012	6-May-2014	16-Dec-2004	12-Oct-2005	11-Dec-2006	8-Jul-2009	6-Jul-2010	31-Oct-2012	6-May-2014	6-Jul-2010													
Date Received	14-Mar-2007	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	14-Dec-2006	9-Jul-2009	9-Jul-2010	1-Nov-2012	9-May-2014	9-Jul-2010													
Date VOCs Analyzed	16-Mar-2007	10-Jul-2009	3-Jul-2010	2-Nov-2012	14-May-2014	26-Dec-2004	20-Oct-2005	18-Dec-2006	13-Jul-2009	13-Jul-2010	6-Nov-2012	14-May-2014	13-Jul-2010													
Laboratory	MDEQ - Mobile	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ													
1,1,1-Trichloroethane	200	U	20		100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	200	U	1.0	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	13,000 [1,2,3]		11,000 [1,2,3]		11,000 [1,2,3]		8,100 [1,2,3]		9,000 [1,2,3]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	200	U	10	U	100	U	100	U	100	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location		MW-311								MW-312											
Screen Depth (ft)		28.5 - 33.5								25 - 30											
Date Sampled	15-Dec-2006	30-Jun-2010	31-Oct-2012	7-May-2014	16-Dec-2004	12-Oct-2005	19-Dec-2006	25-Jun-2008	8-Jul-2009	31-Oct-2012	7-May-2014	16-Dec-2004	12-Oct-2005	19-Dec-2006	25-Jun-2008	8-Jul-2009	31-Oct-2012	7-May-2014			
Date Received	19-Dec-2006	1-Jul-2010	1-Nov-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Nov-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Nov-2012	9-May-2014			
Date VOCs Analyzed	21-Dec-2006	3-Jul-2010	6-Nov-2012	14-May-2014	22-Dec-2004	21-Oct-2005	21-Dec-2006	28-Jun-2008	13-Jul-2009	6-Nov-2012	14-May-2014	22-Dec-2004	21-Oct-2005	21-Dec-2006	28-Jun-2008	13-Jul-2009	6-Nov-2012	14-May-2014			
Laboratory	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ			
1,1,1-Trichloroethane	8.6	9.0	200	U	100	U	20	1.0	U	31	29	50	U	98	170						
1,1,2-Trichloroethane	1.2	1.1	200	U	100	U	4.54	1.0	U	3.8	1.0	50	U	1.7	1.0	U					
1,1-Dichloroethane	1.0	U	1.0	U	200	U	100	U	1.19	1.0	U	1.0	U	1.6	50	U	1.0	U	1.0	U	
1,1-Dichloroethene	1.0	U	1.1	200	U	100	U	2.50	1.0	U	4.8	1.0	U	50	U	3.2	1.0	U			
1,2-Dichloroethane	1.0	U	1.0	U	200	U	100	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	
Chloroform	1.0	U	1.0	U	200	U	100	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	
cis-1,2-Dichloroethene	1.0	U	1.0	U	200	U	100	U	4.52	1.0	U	3.2	1.0	U	50	U	5.1	1.0	U		
Tetrachloroethene	1.0	U	1.0	U	200	U	100	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	
trans-1,2-Dichloroethene	1.0	U	1.0	U	200	U	100	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	
Trichloroethene	15,000 [1,2,3]	10,000 [1,2,3]	7,400 [1,2,3]	7,300 [1,2,3]	19,900 [1,2,3]	14,000 [1,2,3]	14,000 [1,2,3]	9,200 [1,2,3]	4,100 [1,2,3]	3,500 [1,2,3]	4,500 [1,2,3]										
Trichlorofluoromethane	1.0	U	1.0	U	200	U	100	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	
Vinyl chloride	1.0	U	1.0	U	200	U	100	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-312 Duplicate				MW-312A															
	25-30				45 - 50															
Date Sampled	16-Dec-2004	25-Jun-2008			16-Dec-2004	13-Oct-2005		18-Dec-2006	25-Jun-2008		8-Jul-2009	30-Jun-2010		30-Oct-2012		7-May-2014				
Date Received	20-Dec-2004	26-Jun-2008			20-Dec-2004	14-Oct-2005		19-Dec-2006	26-Jun-2008		9-Jul-2009	1-Jul-2010		1-Nov-2012		9-May-2014				
Date VOCs Analyzed	22-Dec-2004	28-Jun-2008			26-Dec-2004	21-Oct-2005		21-Dec-2006	28-Jun-2008		10-Jul-2009	3-Jul-2010		5-Nov-2012		14-May-2014				
Laboratory	Clayton	MDEQ			Clayton	MDEQ		MDEQ	MDEQ		MDEQ	MDNRE		MDEQ		MDEQ				
1,1,1-Trichloroethane	20.7		250	U	100	U	1.0	U	5.4		11		100	U	100	U	100	U	50	U
1,1,2-Trichloroethane	4.97		250	U	100	U	1.0	U	1.6		2.3		100	U	100	U	100	U	50	U
1,1-Dichloroethane	1.11		250	U	100	U	1.0	U	1.0	U	1.5		100	U	100	U	100	U	50	U
1,1-Dichloroethene	3.10		250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
1,2-Dichloroethane	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Chloroform	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
cis-1,2-Dichloroethene	4.72		250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Tetrachloroethene	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
trans-1,2-Dichloroethene	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Trichloroethene	18,100 [1,2,3]		8,700 [1,2,3]		8,930 [1,2,3]		9,100 [1,2,3]		11,000 [1,2,3]		7,400 [1,2,3]		4,100 [1,2,3]		3,800 [1,2,3]		3,000 [1,2,3]		2,800 [1,2,3]	
Trichlorofluoromethane	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U
Vinyl chloride	1.0	U	250	U	100	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U	50	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-312D															
Screen Depth (ft)	45 - 50															
Date Sampled	16-Dec-2004		12-Oct-2005		18-Dec-2006		25-Jun-2008		8-Jul-2009		30-Jun-2010		30-Oct-2012		7-May-2014	
Date Received	20-Dec-2004		14-Oct-2005		19-Dec-2006		26-Jun-2008		9-Jul-2009		1-Jul-2010		1-Nov-2012		9-May-2014	
Date VOCs Analyzed	24-Dec-2004		19-Oct-2005		22-Dec-2006		1-Jul-2008		10-Jul-2009		3-Jul-2010		5-Nov-2012		14-May-2014	
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-312DD								MW-313											
	65 - 70								29 - 34											
Date Sampled	16-Dec-2004	12-Oct-2005	15-Dec-2006	25-Jun-2008	15-Dec-2006	25-Jun-2008	7-Jul-2009	30-Jun-2010	31-Oct-2012	7-May-2014										
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	1-Nov-2012	9-May-2014										
Date VOCs Analyzed	24-Dec-2004	19-Oct-2005	22-Dec-2006	29-Jun-2008	22-Dec-2006	28-Jun-2008	10-Jul-2009	3-Jul-2010	6-Nov-2012	14-May-2014										
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ										
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.4		1.0	U	100	U	100	U	100	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.4		1.0	U	100	U	100	U	100	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
Trichloroethene	1.0	U	1.0	U	1.0	U	3.1		3,100 [1,2,3]		6,300 [1,2,3]		4,100 [1,2,3]		4,600 [1,2,3]		7,800 [1,2,3]		6,500 [1,2,3]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	100	U	100	U	100	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-314S																	
Screen Depth (ft)	20 - 25																	
Date Sampled	16-Dec-2004		13-Oct-2005		13-Dec-2006		26-Jun-2007		24-Jun-2008		9-Jul-2009		29-Jun-2010		26-Oct-2012		8-May-2014	
Date Received	20-Dec-2004		14-Oct-2005		14-Dec-2006		29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	22-Dec-2004		25-Oct-2005		15-Dec-2006		29-Jun-2007		28-Jun-2008		13-Jul-2009		3-Jul-2010		2-Nov-2012		14-May-2014	
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	4.14		1.0	U	2.6		1.2		1.0	U	1.0	U	10	U	10	U	17	
1,1,2-Trichloroethane	1.68		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
Trichloroethene	3,710 [1,2,3]		2,600 [1,2,3]		2,700 [1,2,3]		1,700 [1,2]		650 [1,2]		360 [1,2]		380 [1,2]		850 [1,2]		760 [1,2]	
Trichlorofluoromethane	1.04		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	10	U	10	U	10	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-314S DUP								MW-314D															
	20 - 25								37 - 42															
Date Sampled	16-Dec-2004	26-Jun-2007	24-Jun-2008	9-Jul-2009	16-Dec-2004	11-Oct-2005	14-Dec-2006	26-Jun-2007	24-Jun-2008	9-Jul-2009	29-Jun-2010	26-Oct-2012	8-May-2014											
Date Received	20-Dec-2004	29-Jun-2007	26-Jun-2008	9-Jul-2009	20-Dec-2004	14-Oct-2005	14-Dec-2006	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014											
Date VOCs Analyzed	22-Dec-2004	29-Jun-2007	1-Jul-2008	13-Jul-2009	24-Dec-2004	20-Oct-2005	18-Dec-2006	2-Jul-2007	28-Jun-2008	10-Jul-2009	3-Jul-2010	2-Nov-2012	14-May-2014											
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ											
1,1,1-Trichloroethane	4.21		1.1		10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.78		1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	3,670 [1,2,3]		1,700 [1,2]		580 [1,2]		360 [1,2]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	10	U	10	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-315S																		MW-315S DUP	
Screen Depth (ft)	17 - 22																		33 - 38	
Date Sampled	15-Dec-2004	12-Oct-2005		14-Dec-2006		26-Jun-2007		24-Jun-2008		9-Jul-2009		29-Jun-2010		29-Oct-2012		8-May-2014		12-Oct-2005		
Date Received	20-Dec-2004	14-Oct-2005		14-Dec-2006		29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014		14-Oct-2005		
Date VOCs Analyzed	22-Dec-2004	21-Oct-2005		15-Dec-2006		29-Jun-2007		28-Jun-2008		13-Jul-2009		13-Jul-2010		3-Nov-2012		14-May-2014		21-Oct-2005		
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	7.0		1.0	U	3.0		2.1		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	3.22		1.0	U	1.4		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0		1.0	U	1.4		1.1		5.9		6.8		6.0		1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	3,180 [1,2,3]		2,800 [1,2,3]		1,700 [1,2]		1,800 [1,2]		470 [1,2]		190 [1]		74 [1]		32 [1]		33 [1]		3,000 [1,2,3]	
Trichlorofluoromethane	1.41		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-315D																	
Screen Depth (ft)	33 - 38																	
Date Sampled	16-Dec-2004		11-Oct-2005		14-Dec-2006		26-Jun-2007		24-Jun-2008		9-Jul-2009		29-Jun-2010		29-Oct-2012		8-May-2014	
Date Received	20-Dec-2004		14-Oct-2005		14-Dec-2006		29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		30-Oct-2012		9-May-2014	
Date VOCs Analyzed	24-Dec-2004		19-Oct-2005		18-Dec-2006		29-Jun-2007		29-Jun-2008		10-Jul-2009		3-Jul-2010		3-Nov-2012		14-May-2014	
Laboratory	Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.2		1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-316								MW-317		MW-317 DUP	
Screen Depth (ft)	20-25								30-35		30-35	
Date Sampled	14-Mar-2007	7-Jul-2010		31-Oct-2012		7-May-2014		19-Dec-2006		19-Dec-2006		
Date Received	15-Mar-2007	9-Jul-2010		1-Nov-2012		9-May-2014		19-Dec-2006		19-Dec-2006		
Date VOCs Analyzed	16 & 20 Mar-2007		13-Jul-2010		6-Nov-2012		14-May-2014		21-Dec-2006		21-Dec-2006	
Laboratory	MDEQ - Mobile		MDNRE		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	91		100		99		140		19		18	
1,1,2-Trichloroethane	2.3		1.0	U	50.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethane	1.4		1.0	U	50.0	U	20	U	1.0	U	1.0	U
1,1-Dichloroethene	9.2 [1]		1.7		50.0	U	20	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U
Trichloroethene	1,900 [1,2]		2,200 [1,2]		2,300 [1,2,3]		2,500 [1,2,3]		1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	50.0	U	20	U	32		29	
Vinyl chloride	1.0	U	1.0	U	50.0	U	20	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-318S										MW-318S DUP		MW-318D										MW-319											
	30-35										30-35		47-52										30 - 35											
Date Sampled	13-Dec-2006	7-Jul-2009	7-Jul-2010	25-Oct-2012	6-May-2014	25-Oct-2012	13-Dec-2006	7-Jul-2009	7-Jul-2010	25-Oct-2012	6-May-2014	17-Dec-2004	12-Oct-2005	18-Dec-2006	8-Jul-2009	7-Jul-2010	31-Oct-2012	7-May-2014																
Date Received	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	30-Oct-2012	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	9-Jul-2009	9-Jul-2010	1-Nov-2012	9-May-2014																
Date VOCs Analyzed	15-Dec-2006	10-Jul-2009	14-Jul-2010	3-Nov-2012	14-May-2014	3-Nov-2012	21-Dec-2006	10-Jul-2009	14-Jul-2010	3-Nov-2012	14-May-2014	26-Dec-2004	20-Oct-2005	21-Dec-2006	10-Jul-2009	14-Jul-2010	7-Nov-2012	14-May-2014																
Laboratory	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ																
1,1,1-Trichloroethane	6.2	1.0	U	20	U	20	U	20	U	20	U	11	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	35	25	17	30	38	63	63				
1,1,2-Trichloroethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.3	0.98
1,1-Dichloroethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.16	1.2	1.0	U	1.8	1.5	1.4	1.2		
1,2-Dichloroethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.4	3.2	2.1	2.2	1.0	U
Chloroform	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	2,700 [1,2]	1,700 [1,2]	1,800 [1,2]	1,300 [1,2]	1,100 [1,2]	1,300 [1,2]	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	11 [1]	19 [1]	49 [1]	120 [1]
Trichlorofluoromethane	1.0	U	1.0	U	20	U	20	U	20	U	20	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	20	U	20	U	20	U	20	U	31 [1,2]	16 [1,2]	11 [1]	8.3 [1]	9.1 [1]	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-320												MW-321						MW-321 DUP					
Screen Depth (ft)	22 - 27												21-26						21-26					
Date Sampled	15-Dec-2004	12-Oct-2005	12-Dec-2006	7-Jul-2009	6-Jul-2010	25-Oct-2012	6-May-2014	15-Mar-2007	7-Jul-2010	25-Oct-2012	6-May-2014	6-May-2014												
Date Received	20-Dec-2004	14-Oct-2005	14-Dec-2006	9-Jul-2009	9-Jul-2010	30-Oct-2012	9-May-2014	15-Mar-2007	9-Jul-2010	30-Oct-2012	9-May-2014	9-May-2014												
Date VOCs Analyzed	24-Dec-2004	20-Oct-2005	21-Dec-2006	10-Jul-2009	13-Jul-2010	5-Nov-2012	14-May-2014	16-Mar-2007	13-Jul-2010	3-Nov-2012	14-May-2014	14-May-2014												
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ - Mobile	MDNRE	MDEQ	MDEQ	MDEQ												
1,1,1-Trichloroethane	5.96		3.6		3.4		2.0		1.3		1.3		1.3		50	U	92		72		64		68	
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	3.0		1.0	U	1.0	U	20	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	4.6		1.0	U	1.0	U	20	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	6.3		1.0	U	1.0	U	20	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1,900 [1,2]		2,000 [1,2]		2,100 [1,2]		1,400 [1,2]		1,600 [1,2]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	0.96		50	U	1.0	U	1.0	U	1.0	U	20	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	20	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-322										MW-323										MW-324											
	27 - 32										25 - 30										30 - 35											
Screen Depth (ft)																																
Date Sampled	16-Dec-2004	12-Oct-2005	11-Dec-2006	31-Oct-2012	6-May-2014	15-Dec-2006	26-Jun-2008	8-Jul-2009	30-Jun-2010	30-Oct-2012	7-May-2014	15-Dec-2006	25-Jun-2008	8-Jul-2009	30-Jun-2010	31-Oct-2012	7-May-2014															
Date Received	20-Dec-2004	14-Oct-2005	14-Dec-2006	1-Nov-2012	9-May-2014	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	1-Nov-2012	9-May-2014	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	1-Nov-2012	9-May-2014															
Date VOCs Analyzed	26-Dec-2004	20-Oct-2005	15-Dec-2006	6-Nov-2012	14-May-2014	22-Dec-2006	29-Jun-2008	10-Jul-2009	3-Jul-2010	5-Nov-2012	14-May-2014	21-Dec-2006	29-Jun-2008	10-Jul-2009	3-Jul-2010	7-Nov-2012	14-May-2014															
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ															
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	3.0		1.0	U	2.4		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.4		1.0	U	1.0	U	130 [1]	
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.5	
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-324-DUP				MW-325										MW-326							
Screen Depth (ft)	30 - 35				22 - 27										13-18							
Date Sampled	15-Dec-2006		8-Jul-2009		15-Dec-2004		12-Oct-2005		19-Dec-2006		8-Jul-2009		7-Jul-2010		26-Oct-2012		5-May-2014		13-Mar-2007		8-Jul-2009	
Date Received	19-Dec-2006		9-Jul-2009		20-Dec-2004		14-Oct-2005		19-Dec-2006		9-Jul-2009		9-Jul-2010		30-Oct-2012		9-May-2014		14-Mar-2007		9-Jul-2009	
Date VOCs Analyzed	21-Dec-2006		10-Jul-2009		22-Dec-2004		20-Oct-2005		28-Dec-2006		10-Jul-2009		14-Jul-2010		2-Nov-2012		13-May-2014		16-Mar-2007		16-Jul-2009	
Laboratory	MDEQ		MDEQ		Clayton		MDEQ		MDEQ		MDEQ		MDNRE		MDEQ		MDEQ		MDEQ - Mobile		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	79.1		49		51		41		37		41		41		1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	42.1 [1]		32 [1]		32 [1]		29 [1]		21 [1]		19 [1]		17 [1]		1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-401S										MW-401S DUP																			
	10 - 15										10 - 15																			
Date Sampled	15-Dec-2004	11-Oct-2005	18-Dec-2006	12-Mar-2007	28-Jun-2007	23-Jun-2008	9-Jul-2009	28-Jun-2010	29-Oct-2012	8-May-2014	18-Dec-2006	23-Jun-2008	28-Jun-2010	29-Oct-2012	8-May-2014															
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	14-Mar-2007	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	19-Dec-2006	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014															
Date VOCs Analyzed	22-Dec-2004	18-Oct-2005	22-Dec-2006	14-Mar-2007	2-Jul-2007	28-Jun-2008	15-Jul-2009	3-Jul-2010	3-Nov-2012	14-May-2014	21-Dec-2006	28-Jun-2008	3-Jul-2010	3-Nov-2012	14-May-2014															
Laboratory	Clayton	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ															
1,1,1-Trichloroethane	1.0		1.0	U	6.4		5.0	U	3.8		1.0	U	1.0	U	20	U	20	U	10	U	6.5		2.5		20	U	20	U	10	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.4		5.0	U	2.4		1.0	U	1.0	U	20	U	20	U	10	U	1.5		1.7		20	U	20	U	10	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
Trichloroethene	1.0	U	1.0	U	410 [1,2]		620 [1,2]		1,200 [1,2]		1,300 [1,2]		1,700 [1,2]		1,300 [1,2]		1,100 [1,2]		740 [1,2]		410 [1,2]		1,300 [1,2]		1,400 [1,2]		1,100 [1,2]		750 [1,2]	
Trichlorofluoromethane	5.60		1.8		1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	5.0	U	1.0	U	1.0	U	1.0	U	20	U	20	U	10	U	1.0	U	1.0	U	20	U	20	U	10	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	MW-401M																MW-401D																	
Screen Depth (ft)	27 - 32																41 - 46																	
Date Sampled	15-Dec-2004	11-Oct-2005	18-Dec-2006	24-Jun-2008	9-Jul-2009	28-Jun-2010	29-Oct-2012	8-May-2014	15-Dec-2004	11-Oct-2005	18-Dec-2006	12-Mar-2007	29-Jun-2007	24-Jun-2008	9-Jul-2009	28-Jun-2010	29-Oct-2012	8-May-2014																
Date Received	20-Dec-2004	14-Oct-2005	19-Dec-2006	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014	20-Dec-2004	14-Oct-2005	19-Dec-2006	12-Mar-2007	29-Jun-2007	26-Jun-2008	9-Jul-2009	1-Jul-2010	30-Oct-2012	9-May-2014																
Date VOCs Analyzed	21-Dec-2004	18-Oct-2005	22-Dec-2006	1-Jul-2008	15-Jul-2009	3-Jul-2010	3-Nov-2012	14-May-2014	22-Dec-2004	18-Oct-2005	21-Dec-2006	12-Mar-2007	2-Jul-2007	28-Jun-2008	15-Jul-2009	3-Jul-2010	3-Nov-2012	14-May-2014																
Laboratory	Clayton	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	Clayton	MDEQ	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ																
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	WGP-501								WPG-501 DUP	WGP-502	WGP-503	WGP-504								MW-505						MW-505 DUP										
	15 - 20								15 - 20	15 - 20	15 - 20	15 - 20								18 - 23						18 - 23										
Date Sampled	8-Jan-2007	11-Mar-2007	28-Jun-2007	24-Jun-2008	29-Jun-2010	29-Oct-2012	8-May-2014	8-Jan-2007	9-Mar-2007	9-Mar-2007	8-Jan-2007	9-Mar-2007	26-Jun-2007	24-Jun-2008	29-Jun-2010	26-Oct-2012	8-May-2014	27-Jun-2007	24-Jun-2008	29-Jun-2010	29-Oct-2012	8-May-2014	29-Jun-2010													
Date Received	9-Jan-2007	12-Mar-2007	29-Jun-2007	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014	9-Jan-2007	12-Mar-2007	12-Mar-2007	9-Jan-2007	12-Mar-2007	29-Jun-2007	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014	29-Jun-2007	26-Jun-2008	1-Jul-2010	30-Oct-2012	9-May-2014	1-Jul-2010													
Date VOCs Analyzed	9-Jan-2007	12-Mar-2007	3-Jul-2007	29-Jun-2008	3-Jul-2010	3-Nov-2012	14-May-2014	9-Jan-2007	12-Mar-2007	12-Mar-2007	9-Jan-2007	12-Mar-2007	29-Jun-2007	28-Jun-2008	3-Jul-2010	2-Nov-2012	14-May-2014	2-Jul-2007	28-Jun-2008	6-Jul-2010	3-Nov-2012	14-May-2014	6-Jul-2010													
Laboratory	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDNRE	MDNRE	MDEQ	MDEQ	MDEQ - Mobile	MDEQ - Mobile	MDEQ	MDEQ - Mobile	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDEQ	MDEQ	MDNRE	MDEQ	MDEQ	MDNRE													
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	3		4.3		5.5 [1]		2.3		1.1		1.0	U	3.2		2,000 [1,2]		240 [1,2]		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	FB-001		FB-002		FB-003		TB-01		FB-001		FB-002		TB-01		EB-12112006		TB-12112006		FB-12112006		EB-12122006		FB-12122006		EB-12132006		FB-12132006					
Screen Depth (ft)																																
Date Sampled	15-Dec-2004		16-Dec-2004		17-Dec-2004		15-Dec-2004		12-Oct-2005		13-Oct-2005		5-Oct-2005		11-Dec-2006		11-Dec-2006		11-Dec-2006		12-Dec-2006		12-Dec-2006		13-Dec-2006		13-Dec-2006					
Date Received	20-Dec-2004		20-Dec-2004		20-Dec-2004		20-Dec-2004		14-Oct-2005		14-Oct-2005		14-Oct-2005		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006		14-Dec-2006					
Date VOCs Analyzed	24-Dec-2004		24-Dec-2004		27-Dec-2004		24-Dec-2004		19-Oct-2005		19-Oct-2005		18-Oct-2005		15-Dec-2006		18-Dec-2006		15-Dec-2006		19-Dec-2006		19-Dec-2006		18-Dec-2006		18-Dec-2006					
Laboratory	Clayton		Clayton		Clayton		Clayton		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ					
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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**TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	EB-12142006		FB12142006		TB-1		EB-12182006		EB-12192006		FB-12192006		EB 01082007		FB 01082007		TB 01082007		TB-12152006		FB-12152006		EB-12152006		FB-12182006		TB-06262007		EB-06262007			
Screen Depth (ft)																																
Date Sampled	14-Dec-2006		14-Dec-2006		27-Dec-2006		18-Dec-2006		19-Dec-2006		19-Dec-2006		1/8/2007		1/8/2007		1/8/2007		15-Dec-2006		15-Dec-2006		15-Dec-2006		18-Dec-2006		26-Jun-2007		26-Jun-2007			
Date Received	14-Dec-2006		14-Dec-2006		27-Dec-2006		19-Dec-2006		19-Dec-2006		19-Dec-2006		1/9/2007		1/9/2007		1/9/2007		19-Dec-2006		19-Dec-2006		19-Dec-2006		19-Dec-2006		29-Jun-2007		29-Jun-2007			
Date VOCs Analyzed	18-Dec-2006		15-Dec-2006		3-Jan-2007		29-Dec-2006		21-Dec-2006		21-Dec-2006		1/9/2007		1/9/2007		1/9/2007		20-Dec-2006		20-Dec-2006		21-Dec-2006		22-Dec-2006		29-Jun-2007		2-Jul-2007			
Laboratory	MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ			
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN

Sample Location	Trip Blank		TRIP BLANK-06232008		TRIP BLANK		TRIP BLANK 01		PUMP BLANK 01		PUMP BLANK 02		PUMP BLANK 03		PUMP BLANK 04		PUMP BLANK 05		TRIP BLANK 02		PUMP BLANK 01		PUMP BLANK 02		PUMP BLANK 03		PUMP BLANK 04		PUMP BLANK 05		TRIP BLANK		TRIP BLANK 02		TRIP BLANK-1		EB-EM-050814			
Screen Depth (ft)																																								
Date Sampled	29-Jun-2007		23-Jun-2008		9-Jul-2009		28-Jun-2010		28-Jun-2010		29-Jun-2010		30-Jun-2010		7-Jul-2010		8-Jul-2010		9-Jul-2010		9-Jul-2010		25-Oct-2012		26-Oct-2012		29-Oct-2012		30-Oct-2012		31-Oct-2012		25-Oct-2012		30-Oct-2012		5-May-2014		5-May-2014	
Date Received	29-Jun-2007		26-Jun-2008		9-Jul-2009		1-Jul-2010		1-Jul-2010		1-Jul-2010		1-Jul-2010		9-Jul-2010		9-Jul-2010		9-Jul-2010		9-Jul-2010		30-Oct-2012		30-Oct-2012		30-Oct-2012		1-Nov-2012		1-Nov-2012		30-Oct-2012		1-Nov-2012		9-May-2014		9-May-2014	
Date VOCs Analyzed	2-Jul-2007		28-Jun-2008		10-Jul-2009		3-Jul-2010		3-Jul-2010		3-Jul-2010		3-Jul-2010		13-Jul-2010		13-Jul-2010		13-Jul-2010		13-Jul-2010		3-Nov-2012		2-Nov-2012		2-Nov-2012		5-Nov-2012		5-Nov-2012		3-Nov-2012		6-Nov-2012		13-May-2014		13-May-2014	
Laboratory	MDEQ		MDEQ		MDEQ		MDNRE		MDNRE		MDNRE		MDNRE		MDNRE		MDNRE		MDNRE		MDNRE		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ		MDEQ	
1,1,1-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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TABLE 2
SUMMARY OF MONITORING WELL DETECTIONS - VOCs
DECEMBER 2004 THROUGH MAY 2014
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN

Notes:

All Results are in micrograms per liter ($\mu\text{g/L}$).

Only detected VOCs are shown.

MDEQ: Michigan Department Environmental Quality

Part 201 Criteria (Sept 2012):

[1] Detection Exceeds Residential Drinking Water Criteria.

[2] Detection Exceeds Groundwater Surface Water Interface Criteria.

[3] Detection Exceeds Residential Groundwater Volatilization to Indoor Air Inhalation Criteria.

(A) State of Michigan Drinking Water Standard.

(X) Not Protective of Drinking Water Source.

(S) Criterion Defaults to Solubility Limit.

(W) Concentrations of trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane in groundwater must be added together to determine compliance with DW Criteria of 80 $\mu\text{g/L}$.

1.0 U Not Detected above Laboratory Reporting Limit (1.0 $\mu\text{g/L}$).

Underlined Values: Result(s) and RL(s) are estimated by the lab due to poor precision.

S: Shallow Well

M: Medium Well

D: Deep Well

FB: Field Blank (QA/QC Sample).

EB: Equipment Blank (QA/QC Sample).

TB: Trip Blank

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Lower Level South Area												Residential VI Indoor Air Screening Levels (ug/m ³)		
	Room F-11 Indoor Air	Room F-18-Teachers Lounge Indoor Air													
Sample ID	MDEQ-3	MDEQ-1B	MDEQ-6	MDEQ-8	MDEQ-3	MDEQ-18	MDEQ-1	IA-1	Teacher Lounge Ambient	Teacher Lounge Ambient	MDEQ-19	Teacher Lounge 3585			
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15			
Sample Container	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA			
Date Collected	29-Jun-2007	24-Jul-2007	30-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	13-Oct-2012	27-Aug-2013	26-Aug-2014			
Date Received	29-Jun-2007	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	15-Oct-2012	28-Aug-2013	27-Aug-2014			
Date Analyzed	10-Jul-2007	3-Aug-2007	5-Nov-2007	24-Jan-2008	30-Jun-2008	24-Aug-2009	15-Jul-2010	15-Aug-2011	22-Aug-2012	26-Oct-2012	7-Sep-2013	28-Aug-2014			
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ			
Sample ID No	AA99910	AB01300	AB07053	AB09231	AB17004	AB42001	AB57681	AB79796	AC02496	AC06572	1308384-01	1408276-02			
VOLATILE ORGANIC COMPOUNDS (ug/m3)															
Hydrocarbon Compounds															
1,2,4-Trimethylbenzene	1.8	1.4	ND	ND	2.1	4.0	10	1.8	NS	ND	3.8	2.6	230		
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	3.9	6	ND	NS	ND	ND	230		
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	2.4	ND	NS	ND	14	ND	3,700		
Benzene	ND	ND	ND	0.97	ND	ND	1.6	ND	NS	ND	5.1	ND	3.3		
Ethylbenzene	ND	ND	ND	0.86	J,T	11	1.8	3.1	ND	NS	ND	4.1	ND	87	
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	3.8	NS	ND	19	ND	730	
m & p-Xylene*	ND	1.2	T	1.7	2.5	36	6.1	15	1.8	NS	2.8	14	1.6	100	
o-Xylene*	ND	ND	ND	0.86	J,T	24	2.6	4.4	ND	NS	ND	5.0	ND	100	
Total Xylenes*	ND	1.2	T	1.7	3.36	60	8.7	19.4	1.8	NS	2.8	19	1.6	100	
Styrene	ND	ND	ND	ND	8.3	ND	ND	ND	ND	NS	ND	ND	ND	48	
Toluene	30	6.7	9.9	2.1	10	3.3	8.5	1.7	NS	1.8	42	1.9	5,200		
Chlorofluorocarbons (CFCs)															
Dichlorodifluoromethane	11	1.7	5.6	4.2	ND	5.3	4.5	11	NS	5.4	13	1.5	52,000		
Trichlorofluoromethane	29	1.9	8.4	4.7	12	20	29	13	NS	4.2	45	66	59,000		
Chlorinated Compounds															
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	6,300		
1,2,4-Trichlorobenzene	ND	2.2	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	4.2		
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	0.89	ND	10,000		
Chloromethane	1.5	1.3	1.50	1.4	ND	1.4	0.7	5	0.63	NS	0.94	2.3	1.4	42	
Tetrachloroethene (PCE)	ND	2.8	ND	1.7	J,T	ND	ND	ND	6.8	NS	ND	ND	2.1	36	
Trichloroethene (TCE)	ND	2.9	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	2.1		
Miscellaneous Analytes															
Chloroform	1.2	T	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	11		
Methyl isobutyl ketone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	3,100		
Methylene chloride	6.8	0.95	T	6.8	8.8	6.7	6.5	5.6	5	29	NS	ND	10	19	58
Ambient Temperature (degrees C)	24.5	24	23	23	24.5	23	22.5	21.5	NS	23.5	ND	ND	NA		
Barometric Pressure (mm Hg)	737.3	740.6	749.4	747.2	739.6	747.4	742	741.2	NS	748	ND	ND	NA		

Note:
Only detected constituents are shown. = Detection is greater than the applicable screening level.
SG = Soil Gas Monitoring Well
ND = Not Detected above Laboratory Reporting Limit (RL)
NS = No Sample Collected Due to Flow Regulator Failure
NA = Not Applicable
ID = Inadequate data to develop criterion
T = Reported value is less than the RL. The result is estimated.
J = Analyte was positively identified. Value is an estimate.
5 = Result and reporting limit are estimated due to low continuing calibration standard criteria failure.
6 = Result is estimated due to high continuing calibration standard criteria failure.
ug/m3 = micrograms per cubic meter.
SUMMA samples analyzed by MDEQ.
VI Screening Levels from the MDEQ Guidance Document for the VI Pathway (May 2013).
*Xylene screening levels are for total xylenes.
The August 2012 Teachers Lounge ambient air sample was not analyzed due to a faulty Summa Can regulator that did not draw the sample air; resampled in October 2012.

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Lower Level South Area										Residential VI Shallow Soil Gas (sub-slab) Screening Levels (ug/m3)	
	Room F-18-Teachers Lounge Shallow Soil Gas SG-1-S 2.0 - 2.5 ft (Beneath Floor)											
Sample ID	MDEQ-2	MDEQ-7	MDEQ-3	MDEQ-7A	MDEQ-14	MDEQ-6	SG-1-S	SG-1-S	SG-1-S	SG-1-S		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15		
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl		
Date Collected	24-Jul-2007	30-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Received	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Analyzed	3-Aug-2007	5-Nov-2007	23-Jan-2008	29-Jun-2008	24-Aug-2009	15-Jul-2010	15-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AB01295	AB07054	AB09230	AB17002	AB41998	AB57682	AB79795	AC02497	1308354-01	1408251-03		
VOLATILE ORGANIC COMPOUNDS (ug/m3)												
Hydrocarbon Compounds												
1,2,4-Trimethylbenzene	5.1	ND	29	ND	ND	17	2.3	ND	55	ND	7,600	
1,3,5-Trimethylbenzene	2.5	39	ND	ND	ND	6.1	6	ND	17	ND	7,600	
2,2,4-Trimethylpentane	ND	28	64	ND	ND	6.5	ND	ND	32	ND	120,000	
Benzene	1.4	ND	75	ND	ND	6.3	ND	ND	8.3	ND	110	
Ethylbenzene	ND	1,900	130	ND	ND	17	ND	ND	54	ND	2,900	
Hexane	ND	ND	80	ND	ND	7.2	ND	ND	11	ND	24,000	
m & p-Xylene*	2.3	5,100	380	37	20	57	2.0	ND	220	1.1	3,500	
o-Xylene*	1.4	1,300	100	23	12	24	ND	ND	78	ND	3,500	
Total Xylenes*	3.7	6,400	480	60	32	81	2.0	ND	298	1.1	3,500	
Styrene	ND	ND	ND	ND	17	7.6	6	1.3	ND	4.2	1,600	
Toluene	3.8	130	460	ND	ND	45	1.5	ND	240	2.0	170,000	
Chlorofluorocarbons (CFCs)												
Dichlorodifluoromethane	3,200	4,800	310	5,900	J	4,800	3,200	1,600	3.5	2,600	9,400	1,700,000
Trichlorofluoromethane	240	310	17	320		430	220	160	3.5	210	360	2,000,000
Chlorinated Compounds												
1,1,1-Trichloroethane	2.4	ND	ND	ND	ND	3.1	3.1	ND	ND	ND	210,000	
1,2,4-Trichlorobenzene	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	140	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350,000	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	0.93	ND	ND	1,400	
Tetrachloroethene (PCE)	ND	38	ND	ND	15	T	ND	8.7	5.5	8.5	1,200	
Trichloroethene (TCE)	36	610	34	340	430	230	390	ND	380	410	70	
Miscellaneous Analytes												
Chloroform	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	380	
Methyl isobutyl ketone (MIBK)	4.1	190	ND	ND	ND	ND	ND	ND	ND	ND	100,000	
Methylene chloride	6.3	ND	ND	ND	ND	ND	ND	13	ND	ND	1,900	
Ambient Temperature (degrees C)	24	24	22.5	25	23	22.5	21.5	22.5	ND	ND	NA	
Barometric Pressure (mm Hg)	740.6	740.9	742.4	735.6	747.4	742	741.2	741.7	ND	ND	NA	

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Lower Level South Area								Residential VI Deep Soil Gas Screening Levels (ug/m3)
	Room F-18-Teachers Lounge Deep Soil Gas SG-1-D 4.5 - 5.0 ft (Beneath Floor)								
Sample ID	MDEQ-4	MDEQ-8	MDEQ-9	SG-1-D	SG-1-D	SG-1-D	SG-1-D		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15		
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl		
Date Collected	24-Jul-2007	30-Oct-2007	17-Jun-2008	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Received	25-Jul-2007	31-Oct-2007	18-Jun-2008	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Analyzed	3-Aug-2007	5-Nov-2007	29-Jun-2008	15-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AB01296	AB07055	AB17003	AB79794	AC02498	1308354-02	1408251-04		
VOLATILE ORGANIC COMPOUNDS (ug/m3)									
Hydrocarbon Compounds									
1,2,4-Trimethylbenzene	ND	ND	ND	22	ND	8.7	ND	76,000	
1,3,5-Trimethylbenzene	ND	25	ND	7.3	ND	2.7	ND	76,000	
2,2,4-Trimethylpentane	ND	15	ND	ND	9.2	2.6	ND	1,200,000	
Benzene	3.5	ND	ND	ND	ND	ND	ND	1,100	
Ethylbenzene	ND	1,100	ND	ND	ND	5.1	ND	29,000	
Hexane	ND	ND	ND	ND	ND	ND	ND	240,000	
m & p-Xylene*	1.9	3,000	32	6.0	3.2	20	1.2	35,000	
o-Xylene*	ND	740	19	4.3	1.4	7.6	ND	35,000	
Total Xylenes*	1.9	3,740	51	10	5	28	1.2	35,000	
Styrene	1.2	ND	ND	ND	1.4	ND	4.1	16,000	
Toluene	8.5	68	ND	1.9	3.0	67	2.1	1,700,000	
Chlorofluorocarbons (CFCs)									
Dichlorodifluoromethane	3,900	4,100	5,000	J	9.9	2,100	1,300	9,400	17,000,000
Trichlorofluoromethane	260	270	200		10	320	62	340	20,000,000
Chlorinated Compounds									
1,1,1-Trichloroethane	7.7	ND	ND	ND	6.4	ND	1.5	2,100,000	
1,2,4-Trichlorobenzene	ND	96	ND	ND	ND	ND	ND	1,400	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	3,500,000	
Chloromethane	ND	ND	ND	0.79	ND	1.7	ND	14,000	
Tetrachloroethene (PCE)	1.9	J,T	28	ND	4.0	11	ND	7.9	12,000
Trichloroethene (TCE)	45	610	170	2.2	750	150	510	700	
Miscellaneous Analytes									
Chloroform	33	ND	ND	ND	ND	ND	ND	3,800	
Methyl isobutyl ketone (MIBK)	7.6	100	ND	ND	ND	ND	ND	1,000,000	
Methylene chloride	1.9	ND	ND	10	2.9	3.2	ND	19,000	
Ambient Temperature (degrees C)	24	24	25	21.5	22.5	ND	ND	NA	
Barometric Pressure (mm Hg)	740.6	740.9	735.6	741.2	741.7	ND	ND	NA	

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Upper Level North Area												Residential VI Indoor Air Screening Levels (ug/m ³)
	Utility Closet South of Band Room Indoor Air												
Sample ID	MDEQ-1	MDEQ-8	MDEQ-11	MDEQ-9	MDEQ-11	MDEQ-25	MDEQ-7	IA-2	Band Room Closet Ambient	MDEQ-13	Band Room 3639		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15		
Sample Container	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA	SUMMA		
Date Collected	28-Jun-2007	24-Jul-2007	31-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	27-Aug-2013	26-Aug-2014		
Date Received	29-Jun-2007	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	28-Aug-2013	27-Aug-2013		
Date Analyzed	10-Jul-2007	3-Aug-2007	5-Nov-2007	24-Jan-2008	30-Jun-2008	24-Aug-2009	15-Jul-2010	15-Aug-2011	20-Aug-2012	7-Sep-2013	28-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AA99909	AB01297	AB07056	AB09232	AB17005	AB42000	AB57679	AB79799	AC02495	1308384-02	1408276-01		
VOLATILE ORGANIC COMPOUNDS (ug/m³)													
Hydrocarbon Compounds													
1,2,4-Trimethylbenzene	ND	76	J	ND	ND	ND	ND	2.3	ND	3.8	ND	ND	230
1,3,5-Trimethylbenzene	ND	44		ND	ND	ND	ND	ND	ND	ND	ND	ND	230
2,2,4-Trimethylpentane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,700
Benzene	ND	ND	ND	0.76	J,T	ND	ND	1.1	ND	ND	ND	ND	3.3
Ethylbenzene	ND	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	ND	87
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	730
m & p-Xylene*	ND	2.5	ND	1.5	21	1.8	3.7	ND	4.7	1.2	ND	ND	100
o-Xylene*	ND	5.6	ND	ND	14	ND	1.6	ND	2.7	ND	ND	ND	100
Total Xylenes*	ND	8.1	ND	1.5	35	1.8	5.3	ND	7.4	1.2	ND	ND	100
Styrene	ND	ND	ND	ND	4.7	ND	ND	ND	ND	ND	ND	ND	48
Toluene	5.7	2.9	5.0	2.9	8.2	3.7	11	ND	2.5	5.2	1.3	ND	5,200
Chlorofluorocarbons (CFCs)													
Dichlorodifluoromethane	2.0	12	4.2	4.2	ND	2.3	2.6	2.1	3.0	3.1	2.4	ND	52,000
Trichlorofluoromethane	6.3	36	ND	2.8	2.8	ND	4.2	ND	4.6	7.6	1.9	ND	59,000
Chlorinated Compounds													
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,300
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,000
Chloromethane	1.7	1.6	0.94	1.4	1.5	1.0	0.9	5	0.91	1.1	3.0	1.2	42
Tetrachloroethene (PCE)	4.6	5.9	ND	ND	2.8	ND	11	ND	ND	ND	ND	ND	36
Trichloroethene (TCE)	9.9	ND	4.5	8.5	8.2	3.6	4.3	3.7	ND	2.2	ND	ND	2.1
Miscellaneous Analytes													
Chloroform	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11
Methyl isobutyl ketone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,100
Methylene chloride	ND	8.8	ND	ND	1.1	ND	ND	ND	1.1	1.2	ND	ND	58
Ambient Temperature (degrees C)	24.5	24	24	23	24.5	23	22.5	21.5	22.5	ND	ND	ND	NA
Barometric Pressure (mm Hg)	737.3	740.6	740.9	747.2	739.6	747.4	742	741.2	741.7	ND	ND	ND	NA

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Upper Level North Area										Residential VI Shallow Soil Gas (sub-slab) Screening Levels (ug/m3)	
	Utility Closet South of Band Room Shallow Soil Gas SG-2-S 1.7 - 2.3 ft (Beneath Floor)											
Sample ID	MDEQ-9	MDEQ-2	MDEQ-2	MDEQ-7	MDEQ-21	MDEQ-4	SG-2-S	SG-2-S	SG-2-S	SG-2-S		
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	
Date Collected	24-Jul-2007	30-Oct-2007	15-Jan-2008	17-Jun-2008	21-Aug-2009	8-Jul-2010	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Received	25-Jul-2007	31-Oct-2007	15-Jan-2008	18-Jun-2008	21-Aug-2009	9-Jul-2010	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014		
Date Analyzed	3-Aug-2007	5-Nov-2007	23-Jan-2008	29-Jun-2008	25-Aug-2009	15-Jul-2010	18-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014		
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ		
Sample ID No	AB01298	AB07051	AB09229	AB17006	AB41999	AB57680	AB79798	AC02499	1308354-03	1408251-1		
VOLATILE ORGANIC COMPOUNDS (ug/m3)												
Hydrocarbon Compounds												
1,2,4-Trimethylbenzene	ND	ND	74	ND	ND	12	36	3.6	37	ND	7,600	
1,3,5-Trimethylbenzene	ND	23	22	ND	ND	4.5	6	16	12	ND	7,600	
2,2,4-Trimethylpentane	ND	110	110	ND	ND	2.8	ND	3.0	26	1.4	120,000	
Benzene	1.5	29	110	ND	ND	1.3	ND	ND	7.4	ND	110	
Ethylbenzene	ND	2,000	390	ND	13	3.8	1.9	ND	53	ND	2,900	
Hexane	ND	40	100	ND	ND	ND	ND	ND	9.8	ND	24,000	
m & p-Xylene*	1.3	4,600	J	1,000	ND	42	20	23	3.3	210	2.0	3,500
o-Xylene*	ND	1,100	330	ND	24	5.2	14	ND	63	ND	3,500	
Total Xylenes*	1.3	5,700	1,330	ND	66	25	37	3.3	273	2.0	3,500	
Styrene	ND	ND	ND	ND	34	ND	ND	ND	1.5	ND	1,600	
Toluene	14	260	850	ND	6.2	9.4	15	ND	280	1.9	170,000	
Chlorofluorocarbons (CFCs)												
Dichlorodifluoromethane	2.9	ND	ND	ND	ND	2.5	2.6	2.9	1.8	2.2	1,700,000	
Trichlorofluoromethane	2.6	ND	ND	ND	ND	3.6	1.7	ND	2.7	1.5	2,000,000	
Chlorinated Compounds												
1,1,1-Trichloroethane	6.6	ND	ND	ND	ND	2.8	ND	ND	ND	ND	210,000	
1,2,4-Trichlorobenzene	ND	80	ND	ND	ND	ND	ND	ND	ND	ND	140	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350,000	
Chloromethane	ND	ND	ND	ND	ND	ND	0.64	ND	ND	ND	1,400	
Tetrachloroethene (PCE)	ND	31	ND	ND	ND	3.4	ND	ND	ND	3.1	1,200	
Trichloroethene (TCE)	260	210	610	300	730	1,000	64	150	280	280	70	
Miscellaneous Analytes												
Chloroform	7.2	ND	ND	ND	4.3	5.7	ND	ND	4.8	4.2	380	
Methyl isobutyl ketone (MIBK)	8.5	680	ND	ND	ND	ND	ND	ND	ND	ND	100,000	
Methylene chloride	ND	ND	ND	ND	3.7	ND	3.5	ND	ND	ND	1,900	
Ambient Temperature (degrees C)	24	24	22.5	25	23	22.5	21.5	23	ND	ND	NA	
Barometric Pressure (mm Hg)	740.6	741	742.4	735.6	747.4	742	741.2	741.6	ND	ND	NA	

**TABLE 1
SUMMARY OF SOIL GAS AND INDOOR AIR ANALYTICAL RESULTS
2007 THROUGH 2014
SAMPLING EVENTS
RESIDENTIAL WELLS - HOLLY ROAD SITE
BRIGHTON, MICHIGAN**

Sample Location	BHS Building-Upper Level North Area												Residential VI Deep Soil Gas Screening Levels (ug/m3)
	Utility Closet South of Band Room Deep Soil Gas SG-2-D 4.5 - 5.0 ft (Beneath Floor)												
Sample ID	MDEQ-5	MDEQ-3	MDEQ-6A	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D	SG-2-D
Analysis	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15
Sample Container	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl	Summa/Vac Btl
Date Collected	24-Jul-2007	30-Oct-2007	17-Jun-2008	11-Aug-2011	15-Aug-2012	26-Aug-2013	26-Aug-2014						
Date Received	25-Jul-2007	31-Oct-2007	18-Jun-2008	12-Aug-2011	16-Aug-2012	26-Aug-2013	26-Aug-2014						
Date Analyzed	3-Aug-2007	5-Nov-2007	29-Jun-2008	18-Aug-2011	20-Aug-2012	8-Sep-2013	26-Aug-2014						
Laboratory	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ	MDEQ						
Sample ID No	AB01299	AB07052	AB17007	AB79797	AC02500	1308354-04	1408251-2						
VOLATILE ORGANIC COMPOUNDS (ug/m3)													Deep Soil Gas Monitoring Points
Hydrocarbon Compounds													
1,2,4-Trimethylbenzene	ND	ND	ND	11	ND	35	ND						76,000
1,3,5-Trimethylbenzene	ND	ND	ND	9	ND	11	ND						76,000
2,2,4-Trimethylpentane	ND	31	ND	ND	ND	17	ND						1,200,000
Benzene	ND	ND	ND	ND	ND	5.6	ND						1,100
Ethylbenzene	ND	450	ND	ND	1.3	37	ND						29,000
Hexane	ND	ND	ND	ND	ND	ND	ND						240,000
m & p-Xylene*	ND	1,100	32	4.6	2.0	150	ND						35,000
o-Xylene*	ND	220	21	3.2	ND	52	ND						35,000
Total Xylenes*	ND	1,320	53	7.8	2.0	202	ND						35,000
Styrene	ND	ND	ND	ND	2.3	ND	ND						16,000
Toluene	1.5	56	ND	2.2	2.2	190	5.6						1,700,000
Chlorofluorocarbons (CFCs)													
Dichlorodifluoromethane	ND	ND	ND	ND	3.5	ND	2.3						17,000,000
Trichlorofluoromethane	ND	ND	ND	ND	6.7	ND	1.6						20,000,000
Chlorinated Compounds													
1,1,1-Trichloroethane	1.5	J,T	ND	ND	2.8	ND	ND						2,100,000
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND						1,400
Chloroethane	ND	ND	ND	ND	ND	ND	ND						3,500,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND						14,000
Tetrachloroethene (PCE)	ND	ND	ND	ND	3.7	ND	3.5						12,000
Trichloroethene (TCE)	73	ND	1,400	110	840	680	480						700
Miscellaneous Analytes													
Chloroform	1.8	ND	ND	ND	10	6.9	4.1						3,800
Methyl isobutyl ketone (MIBK)	ND	170	ND	ND	ND	ND	ND						1,000,000
Methylene chloride	ND	ND	ND	1.2	ND	ND	ND						19,000
Ambient Temperature (degrees C)	24	24	25	21.5	23	ND	ND						NA
Barometric Pressure (mm Hg)	740.6	740.9	735.6	741.2	741.6	ND	ND						NA

VI Screening Levels from the MDEQ Guidance Document for the VI Pathway (May 2013).
Xylene screening levels are for total xylenes.

9/14 results QC'd by: SS

Attachment C

Brownfield Plan Resolution(s)

Attachment D

Reimbursement Agreement

Resolution #2021-03

RESOLUTION APPROVING BROWNFIELD PLAN
CITY OF BRIGHTON
COUNTY OF LIVINGSTON, STATE OF MICHIGAN

At a regular meeting of the Brighton City Council, held in the City Council Chamber of the City of Brighton, on the 21st day of January, 2021, at 7:30 p.m.

PRESENT:

ABSENT:

The following preamble and resolution were offered by COUNCIL MEMBER ____ and supported by COUNCIL MEMBER _____.

WHEREAS, the City of Brighton Brownfield Redevelopment Authority (BBRA), pursuant to the provisions of the Brownfield Redevelopment Financing Act, being Act 381 of the Public Acts of the State of Michigan of 1996, as amended (the "Act"), has prepared and recommended for approval by the Brighton City Council, a Brownfield Plan (the "Plan") pursuant to and in accordance with Section 13 of the Act; and

WHEREAS, the BBRA has, at least ten (10) days before the meeting of the Brighton City Council at which this resolution has been considered, provided notice to all taxing jurisdictions (the "Taxing Jurisdictions") affected by the Plan about the fiscal and economic implications of the proposed Plan, and the Brighton City Council has provided to the Taxing Jurisdictions a reasonable opportunity to express their views and recommendations regarding the Plan in accordance with Sections 14(4) and (5) of the Act; and

WHEREAS, the Brighton City Council has made the following determinations and findings:

- A. The Plan constitutes a public purpose under the Act;
- B. The Plan meets the requirements for a Brownfield Plan set forth in Section 13 of the Act;
- C. The proposed method of financing the eligible activities, as described in the Plan, is feasible;
- D. The costs of the eligible activities proposed in the Plan are reasonable and necessary to carry out the purposes of the Act;
- E. The amount of captured taxable value estimated to result from the adoption of the Plan is reasonable; and

WHEREAS, as a result of its review of the Plan and upon consideration of the views and recommendations of the Taxing Jurisdictions, the Brighton City Council wishes to approve the Plan.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. Plan Approved. Pursuant to the authority vested in the Brighton City Council by the Act, and in accordance with the provisions of Section 14 of the Act, the Plan is hereby approved in the form attached as Exhibit "A" to this Resolution.

Resolution #2021-03

2. Severability. Should any section, clause or phrase of this Resolution be declared by the Courts to be invalid, the same shall not affect the validity of this Resolution as a whole nor any part thereof other than the part declared to be invalid.

3. Repeals. All resolutions or parts of resolutions in conflict with any of the provisions of this Resolution are hereby repealed.

UPON A VOTE FOR THE ADOPTION OF SAID RESOLUTION, THE VOTE WAS:

AYES:

NAYES:

ABSTAINED:

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN)
COUNTY OF LIVINGSTON)

CERTIFICATION

I, the undersigned, the duly qualified and acting Clerk of the City of Brighton, County of Livingston, State of Michigan, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Brighton City Council at a regular meeting held on the 21st day of January, 2021, the original of which resolution is on file in my office and available to the public. Public notice of said meeting was given pursuant to and in compliance with the Open Meetings Act, Act 267 of the Michigan Public Acts of 1976, and the Brownfield Redevelopment Financing Act, Act 381 of the Michigan Public Acts of 1996.

IN WITNESS THEREOF, I have hereunto set my official signature, this 21st day of January, 2021.

TARA BROWN
CLERK, CITY OF BRIGHTON



City of Brighton

REPORT FROM THE CITY MANAGER TO CITY COUNCIL JANUARY 21, 2021

SUBJECT: CONSIDER APPROVAL OF TETRA TECH DESIGN ENGINEERING SCOPE OF WORK FOR THE ADDITION OF EASTERLY STREETS IMPROVEMENTS TO THE GRAND RIVER PHASE 2 & PHASE 3 ROAD IMPROVEMENT PROJECT FOR AN ADDITIONAL AMOUNT OF \$209,200, WITH A NOT TO EXCEED TOTAL OF \$329,200, INCLUDING A BUDGET AMENDMENT IN THE AMOUNT OF \$209,200 FROM THE FUND BALANCE OF THE GENERAL FUND TO THE MAJOR AND LOCAL STREET FUNDS.

BACKGROUND

- At the July 16, 2020 Council meeting, members approved the design engineering proposal from Tetra Tech Engineering Services for the 2021/2022 Grand River Phase 2 and Phase 3 Rehabilitation Project. This project, in large part, will be funded with a grant from the Huron Valley Federal Aid Committee (HVFAC) with Major Streets providing the remainder. Boundaries extend from where the 2017 Grand River Project ended at Ore Creek to the easterly City limits by Appian Way. Note that the area of Grand River between St. Paul Street and North Street will not be included as this area will be part of the 2023 DDA Streetscape Project. During the meeting, Council questioned if side streets were being considered for rehabilitation with the Grand River Project. Staff explained that the grant could only be used for roads that met specific criteria and side streets were not being considered at that time. As the conversation moved forward, Council expressed interest in obtaining pricings for side street rehabilitation as it may present an opportunity to take advantage of economies of scale. As a result, staff met with the engineer to discuss the scope and cost of adding the one hundred blocks of Liberty, Flint, Beaver, Dutcher and Spencer Streets to the project.

ADMINISTRATIVE SUMMARY

- Using the complete street portion of the City's Master plan for reference, staff met with the City's engineer on site to determine whether street rehabilitation or street reconstruction was going to be required. Being in an area of new development, the goal was to promote walkability for the community, retain existing parking for established businesses and improve the street surface.
- As part of the street surface evaluation, staff determined that curb and gutter drainage was desired and additional sidewalk was necessary, particularly the sidewalk ramps. At present, Liberty and Spencer Streets possess curb and gutter drainage but will require areas to be replaced as needed. Flint, Beaver and Dutcher Streets have sheet flow drainage with no curb and gutter so these streets will have new curb and gutter installed. In addition, the crosswalks will be replaced with Americans with Disabilities Act (ADA) ramps to meet federal and state compliance guidelines.
- Wanting to take advantage of the street surfaces being open during the project, staff also examined the existing water and sewer utilities to determine if upgrading or repairs are needed as incorporating this work will limit damage to the road in the future. After our review, it was concluded that the water distribution system will need attention and part of the sanitary collection system may require work but a more comprehensive look will take place to determine the extent necessary. Once City staff investigates the area in question, they will discuss their findings with the engineer.



City of Brighton

REPORT FROM THE CITY MANAGER TO CITY COUNCIL JANUARY 21, 2021

- With the 2022 Grand River Project design work having already begun, design engineering for the aforementioned streets needs to start as each street presents its own set of variables that could affect the project as a whole and interrupt consistency of the project. Starting design now will keep the project schedule moving forward for spring 2022 bid letting and limit any unexpected modifications that could arise during the construction phase. The original \$120,000 approved for design phase of the Grand River project was to include street surface rehabilitation, ADA compliant sidewalk ramps, miscellaneous curb and gutter replacement and traffic signal work. At this point no underground utility work is expected to be part of the original project unless something is discovered in the design process. With the addition of Liberty, Flint, Beaver, Dutcher and Spencer Streets, a more comprehensive design will be required as several of these will need utility upgrades, survey work, and grade and profile development.
- Tetra Tech has provided a proposal for the design engineering required for Liberty, Flint, Beaver, Dutcher and Spencer streets at an additional cost of \$209,200. This would change the total project design engineering cost from the original \$120,000 to \$329,200. Bidding and construction phase engineering costs will be determined later when the design engineering has been completed.
- The table below shows a breakdown of each task and its cost:

Task	Budget
Survey	\$44,200
Design Engineering Services	\$142,500
Bid Letting and Assistance	\$2,500
State Historic Preservation Office Review	\$5,000
Geotechnical Investigation	\$15,000
Total	\$209,200

- Staff is recommending that the financing for this work be paid from the fund balance of the General Fund via a budget amendment from the General Fund to the Major and Local Street Funds in amounts to be allocated by the work completed on each type of road.

RECOMMENDATION

Approval of Tetra Tech Design Engineering Scope of Services for the addition of Easterly Streets Improvements to the Grand River Phase 2 and Phase 3 Road Improvement Project in an additional amount of \$209,200 with a not to exceed total of \$329,200, including the related budget amendments in the amount of \$209,200 from the fund balance of the General Fund Major and Local Street Funds.

Prepared by: Marcel Goch, DPS Director
 Reviewed by: Gretchen Gomolka, Finance Director
 Reviewed & Approved by: Nate Geinzer, City Manager

Attachments: Tetra Tech’s Professional Services Proposal



January 11, 2021

Mr. Marcel Goch
City of Brighton
200 North First Street
Brighton, MI 48116

**Re: Proposal for Professional Consultant Services
Easterly Streets Improvements Project Addition
Grand River Phase 2 Mill and Fill Project
City of Brighton, Michigan**

Dear Mr. Goch:

Tetra Tech is pleased to provide our proposal for professional transportation design engineering services associated with the above referenced project.

UNDERSTANDING

We understand that the City of Brighton, in cooperation with the Michigan Department of Transportation (MDOT) Local Agency Program (LAP) is planning construction of five (5) local streets within the City of Brighton, located immediately east of Grand River Avenue. Based on conversations and coordination with City staff, the City would like to combine these local streets with the Grand River Avenue resurfacing project to be bid let under a single construction contract. Design and implementation of this project will be fully funded by the City of Brighton. Design services by Tetra Tech's Transportation Engineering team will be consistent with the documentation set forth in the *MDOT Local Agency Programs Guidelines for Geometrics 2014 Edition* along with applicable AASHTO standards. 4R Criteria is anticipated to govern.

The following five (5) local streets were evaluated for reconstruction and inclusion in the Grand River Mill and Fill Improvements Phase 2 project:

1. Beaver Street
2. Liberty Street
3. Flint Road (to East Street only)
4. Dutcher Street
5. Spencer Road (to East Street only)

Preliminary field work and conceptual opinions of cost were prepared early on in this process for design discussions with City staff. Based on these efforts and additional recent coordination meetings between City staff and our design engineering team members, the following key issues have been identified and will be addressed in this Scope of Services:

1. Each of the five (5) proposed street improvements will include new asphalt pavement and concrete curb and gutter. Subgrade support materials, such as 21AA limestone replacement, will be determined through a geotechnical investigation and recommendations performed by an independent consultant. A significant portion of the curb/gutter work will be proposed as new construction. The remaining curb work will be replacement in kind, as determined through evaluation of existing condition and design requirements.
2. Sidewalks will be proposed on both sides of each street. Where current sidewalks exist, replacement will be made where conditions warrant.
3. Sidewalk ramps will be designed in accordance with American Disabilities Act (ADA) guidelines.
4. Beaver Street and Dutcher Street - On-street parking striping and signage will be incorporated into the design.
5. Incorporate sanitary sewer, storm sewer, and water main upgrades (with associated opinions of costs) for the road sections, as described herein.
 - a. Grand River Avenue – Include repair of storm sewer structures and the use of polyfoam installation on storm structures (as similarly used on past design projects). An estimated amount of storm sewer will be assumed for this Scope of Services, and if it is determined to be more than assumed, we will notify the City of Brighton upon that determination.
 - b. Liberty Street – Specifically includes:
 - i. Milling and resurfacing of asphalt surfaces for road work. Sidewalks and associated ramps will be incorporated into the design where missing along the northerly and southerly roadsides for connectivity to nearby sidewalk system. Subsurface reconstruction and pavement restoration will be required where water main replacement work is proposed.
 - ii. Removal and replacement of 12-inch water main valve at the intersection of Liberty Street and Grand River avenue which is currently leaking.
 - iii. It is currently indeterminate whether the old water main is abandoned. A field verification should be performed to confirm whether the old water main is, in fact, abandoned. If it is determined not to be abandoned, then the appropriate design designations should be instructed within the proposed design engineering details of the project.
 - iv. Based on information obtained from the City of Brighton, the existing force main is in good condition, and does NOT need to be addressed as part of this project with exception to the projection from other potential utility conflicts discovered through the engineering design process.
 - c. Flint Road – Specifically includes:
 - i. Replacement of the existing 4-inch cast iron water main. Tetra Tech will review the water model and determine if a 6- or 8-inch water main would benefit the City’s water pressure and system reliability.
 - ii. The valve boxes at the intersections of Flint Road and East Street are damaged and need to be replaced.
 - iii. The existing 8-inch vitrified clay sanitary sewer appears to be in good condition. Therefore, replacement of the sanitary sewer main has not been included in our scope of services.
 - d. Spencer Road – Specifically Includes:
 - i. The 8-inch sanitary sewer main is a vitrified clay pipe. A 12-foot-long vertical deflection (low spot) exists within this section of pipe and one pipe joint was detected where camera

equipment had difficulty passing through the section of sewer because of an offset joint. This line is between 6- to 8-feet deep. Further evaluation and discussion will be required to determine as to whether a lining repair is suitable, or replacement in kind would be a better solution.

- ii. Existing 6-inch water main will be replaced and upgraded to an 8-inch water main line.
- iii. As a result of the underground utility construction work, Spencer Road is anticipated to be a full reconstruction design.
- e. Beaver Street – There is currently no water main or sanitary sewer along Beaver Street between N. East Street and Grand River Avenue. The addition of new water and sanitary sewer is not anticipated.
- f. Dutcher Street – There is currently no water main or sanitary sewer mains on Dutcher Street and the addition of these utilities is not anticipated. There is a sanitary sewer manhole located near the Dutcher Street and Grand River intersection (SMH-0276). The upstream and downstream mains that flow in and out of that manhole structure can be lined and preserved in a future project. Rehabilitation of the existing sanitary sewers are not included in this project's scope of services.

Existing Conditions and Recommendations

In general, the existing roadways consist of asphalt paved surfaces in need of reconstruction due to its expended useful life (with exception of Liberty Street, as described previously). It is recommended that geotechnical information be obtained to determine the most suitable solution at each road and determine if subgrade modifications are necessary. Several of these paved streets indicate poor surface stormwater drainage with a clear indication of ponding and tire rutting from vehicular traffic. Parallel parking is currently permitted in many areas along each subject street.

Some streets currently have adjacent sidewalks that likely require either replacement or partial replacement due to condition and widths. In addition, several sidewalk ramp crossings at intersections are not currently in compliance with ADA design guidelines.

Current use of existing structures located along these five (5) streets varies from predominantly small business commercial use to residential use. Several driveways access the existing streets as constructed. Flint Road appears to currently be the main arterial road with no restricted stop signage from Grand River Avenue to Hilton Road, located to the north; opposing traffic from northbound and southbound East Street has stop signage at this intersection.

The presence and condition of the existing stormwater system and drainage outlets will need to be determined at the onset of design. It is anticipated that the horizontal and vertical alignments will not vary significantly from the current condition, unless necessitated by improvement to moving stormwater away from existing road surfaces into a newly constructed or existing stormwater drainage system.

TEAM COORDINATION

Franchise Utilities

Based on our field review and the presence of utility markers, utilities are located throughout the corridor and will be a crucial component of the project, especially considering where proposed sidewalks and ramps may be considered. Identifying conflicts and working with utility owners to determine conflict resolution will need to occur as early as possible to avoid schedule impacts. Upon authorization, one of our first tasks will be to contact utility companies, in cooperation with the City of Brighton representation to request franchise utility plans. We also envision surveying Miss Dig markings to prepare a utility conflict matrix, identifying potential critical utility crossing locations.

Plan Grade / Profile Development and Alignment

The plan grade for the roadway will be centered on the existing alignment. Depth of cover over proposed drainage will be a consideration for profile development. In addition, placement of underdrain and the ability to properly outlet underdrain will be a key profile constraint. Driveway sight distance will also be mitigated with profile development. Clear sightlines will be an imperative design element, and Tetra Tech will utilize 3D modeling to comply with City of Brighton standards.

Drainage

The proposed design engineering work is anticipated to take place within the proposed project limits, but some areas may have relatively undefined roadside drainage. We will utilize the City's existing GIS database and existing past project information to design proposed stormwater drainage elements into the road construction drawing package as necessary to improve drainage conditions. As with any road construction project, grades will be identified as "cut" sections into the existing terrain in most places. Due to the potential of ROW constraints to private property, we anticipate a significant part of the reconstructed roadway to consist of new curb and gutter and enclosed storm sewer. Several key drainage items are apparent:

- Identification of suitable outlets at the onset of design
- Sizing of new culverts and storm sewer and ensuring cover is coordinated with road profile
- Eliminate harmful interference to property as a result of the grade established for the new roadway
- Determine increases in impervious area
- Limit grading impacts by utilizing appropriate roadside control (ditch vs. curb and gutter if applicable)
- Proper subgrade drainage will be imperative to maximize design life
- When practical, design proposed surface profiles to promote stormwater drainage to an existing culvert or wetland, rather than low areas along private property.

Survey / Right-of-Way

A full topographic and right-of-way survey will be performed for this project. Mapping of existing surface features and assets will be conducted. Drainage inventories will be gathered to facilitate drainage design. Pick up survey is also anticipated to assist with utility relocations and potential crossing conflicts. Our survey team will prepare rights-of-way exhibits and property descriptions as required for the project. At the city's discretion, we will prepare

temporary easements and grading permits documentation for purposes of describing proposed project limits. This information would be communicated to applicable private property owners for authorization to perform work on their property, as applicable to the project.

SCOPE OF SERVICES

Tetra Tech's scope of services is based on recent discussions with City of Brighton staff and our design engineering team members. The tasks are as follows:

- Prepare contract documents for the project. Contract quantities will be developed to facilitate bidding through MDOT's LAP Program.
- Develop removal, plan, and profile sheets at 40 scale, at 1-foot contours, to depict project improvements.
- Develop typical sections with proposed sidewalks on both sides of all five (5) streets.
- Coordinate with a geotechnical (soils) consultant for determination of subsurface soil conditions and proposed pavement section recommendations. It is anticipated that proposed asphalt pavement sections will be consistent with the current City of Brighton standards. Recommendations that are determined to be inconsistent with these standards, (such as significant undercutting of subbase materials due to poor soils) will be brought to the attention of the City at soon as is practical to address a long-term solution. A geotechnical services allowance of \$15,000 has been included in our scope of services fee.
- Incorporate geotechnical information into the proposed construction drawings.
- Coordinate with a subconsultant on applicable historical structures (SHPO) that may be located within the proposed project limits. An allowance of \$5,000 has been included in our scope of services fee.
- Develop special provisions for the project as needed.
- Analyze and design drainage to facilitate the new roadway cross section.
- Prepare maintaining traffic contract documents. This would include standard details and detour sheets as required for proper diversion of traffic for each applicable phase of the project.
- Evaluate design exception elements and prepare design exceptions as needed for the City of Brighton.
- Perform topographic survey for the entire project.
- Perform right-of-way survey.
- Provide a text file for the anticipated contractor's use. We will also provide a 3D terrain model for top and subgrade surfaces that will be created during roadway design modeling activities.
- Perform right-of-way survey to identify property corners that may be impacted by construction.
- Develop up to three (3) permanent right-of-way property descriptions and sketches.
- Develop up to six (6) temporary grading easement sketches.
- Attend a kick-off meeting, three (3) utility meetings, (3) three milestone review meetings, and one (1) public meeting.
- Assist with permit application preparation as part of the LAP process. This will likely require timely signatures for processing the permit application with the necessary governing agencies (MDOT).
- Prepare permanent signing plans.
- Complete checklist for frequently used special provisions, supplemental specifications, and notice to bidders.
- Prepare an opinion of probable construction cost in the required format for submission to MDOT.
- Assist with the preparation of the permit application package required for this project.
- Prepare permanent pavement marking plans for all five (5) proposed streets. Specifically, the following items are concerns raised by the City:
 - Beaver Street striping will be required to address on-street parking conflicts.

- Dutcher Street striping will be incorporated to improve on-street parking within the right-of-way which is also close in proximity to private commercial property parking.
- Assist the City of Brighton with addenda that may be needed to clarify the intent of Tetra Tech's work.

ASSUMPTIONS AND CLARIFICATIONS

Tetra Tech assumes the following:

- Construction engineering, construction administration, and field observation services will be submitted under a separate letter proposal.
- Manhole covers shall utilize reinforced concrete collars, in accordance with the city standards.
- No endangered species are anticipated as part of this project.
- No environmental hazards are known to exist within the proposed project limits.
- Landscaping plantings, sculptures and other ornamental elements are not included as part of this project.
- Signal plans, details for loop replacements, and signal plans for push button modifications designs are not included in our scope of services.
- Costs for subsurface utility investigations (pot holing) are not included in our scope of services.
- Specialty pavement finishes such as stamped concrete or other specialty items are not included with this Scope of Services.
- This project will be bid in conjunction with the adjacent Grand River Avenue road improvement project.

Information we assume to be provided by the City includes:

- Traffic Counts
- Title Searches, and
- Crash Data

ANTICIPATED PROJECT SCHEDULE

We propose the following key milestones for this project:

- Authorization to Proceed – January 2021
- Base Plan Submittal – April 2021
- 70% Grade Inspection Submittal – July 2021
- Final Documents to LAP and Specifications – October 2021
- Bid Letting- February 2022
- MDOT Contract Award – March 2022
- Construction – Summer 2022

COMPENSATION

Compensation for these services will be based on Tetra Tech staff efforts, times their standard billing rate, plus reimbursable expenses. We propose the following not-to-exceed budgets for the above-mentioned scope of work for the Design Engineering Phase of the Project.

Design Engineering Services	Road Funding	Water Utility Funding	Sanitary Sewer Utility Funding	Total Fees for Services
Full Topographic Survey Services w/ Modeling	\$44,200			\$44,200
Design Engineering Services	\$118,300	\$14,000	\$10,200	\$142,500
Bid Letting	\$2,500			\$2,500
State Historic Preservation Research – SHPO (Subconsultant)	\$5,000			\$5,000 (Estimated)
Geotechnical Investigation (Subconsultant)	\$15,000			\$15,000 (Estimated)
Total Design Engineering Fee				\$209,200

If you concur with this proposal, please sign in the space provided below and return an original signed copy of this proposal as our authorization to proceed. Receipt of this letter, signed where indicated, will be considered authorization to proceed according to our attached Standard Terms and Conditions. If you have any questions, please feel free to contact us at your earliest convenience.

Sincerely,



Steven J. Magnan, P.E.
 Senior Project Manager

Attachment

PROPOSAL ACCEPTED BY CITY OF BRIGHTON

BY: _____

TITLE: _____ **DATE:** _____

Engineering Services Standard Terms & Conditions

Services Consultant will perform services for the Project as set forth in the provisions for Scope of Work/Fee/Schedule in the proposal and in accordance with these Terms & Conditions. Consultant has developed the Project scope of service, schedule, and compensation based on available information and various assumptions. The Client acknowledges that adjustments to the schedule and compensation may be necessary based on the actual circumstances encountered by Consultant in performing their services. Consultant is authorized to proceed with services upon receipt of an executed Agreement.

Compensation In consideration of the services performed by Consultant, the Client shall pay Consultant in the manner set forth above. The parties acknowledge that terms of compensation are based on an orderly and continuous progress of the Project. Compensation shall be equitably adjusted for delays or extensions of time beyond the control of Consultant. Where total project compensation has been separately identified for various tasks, Consultant may adjust the amounts allocated between tasks as the work progresses so long as the total compensation amount for the project is not exceeded.

Fee Definitions The following fee types shall apply to methods of payment:

- **Salary Cost** is defined as the individual's base salary plus customary and statutory benefits. Statutory benefits shall be as prescribed by law and customary benefits shall be as established by Consultant employment policy.
- **Cost Plus** is defined as the individual's base salary plus actual overhead plus professional fee. Overhead shall include customary and statutory benefits, administrative expense, and non-project operating costs.
- **Lump Sum** is defined as a fixed price amount for the scope of services described.
- **Standard Rates** is defined as individual time multiplied by standard billing rates for that individual.
- **Subcontracted Services** are defined as Project-related services provided by other parties to Consultant.
- **Reimbursable Expenses** are defined as actual expenses incurred in connection with the Project.

Payment Terms Consultant shall submit invoices at least once per month for services performed and Client shall pay the full invoice amount within 30 days of the invoice date. Invoices will be considered correct if not questioned in writing within 10 days of the invoice date. Client payment to Consultant is not contingent on arrangement of project financing or receipt of funds from a third party. In the event the Client disputes the invoice or any portion thereof, the undisputed portion shall be paid to Consultant based on terms of this Agreement. Invoices not in dispute and unpaid after 30 days shall accrue interest at the rate of one and one-half percent per month (or the maximum percentage allowed by law, whichever is the lesser). Invoice payment delayed beyond 60 days shall give Consultant the right to stop work until payments are current. Non-payment beyond 70 days shall be just cause for termination by Consultant.

Additional Services The Client and Consultant acknowledge that additional services may be necessary for the Project to address issues that may not be known at Project initiation or that may be required to address circumstances that were not foreseen. In that event, Consultant shall notify the Client of the need for additional services and the Client shall pay for such additional services in an amount and manner as the parties may subsequently agree.

Site Access The Client shall obtain all necessary approvals for Consultant to access the Project site(s).

Underground Facilities Consultant and/or its authorized subcontractor will conduct research and perform site reconnaissance in an effort to discover the location of existing underground facilities prior to developing boring plans, conducting borings, or undertaking invasive subsurface investigations. Client recognizes that accurate drawings or knowledge of the location of such facilities may not exist, or that research may reveal as-built drawings or other documents that may inaccurately show, or not show, the location of existing underground facilities.

Regulated Wastes Client is responsible for the disposal of all regulated wastes generated as a result of services provided under this Agreement. Consultant and Client mutually agree that Consultant assumes no responsibility for the waste or disposal thereof.

Contractor Selection Consultant may make recommendations concerning award of construction contracts and products. The Client acknowledges that the final selection of construction contractors and products is the Client's sole responsibility.

Ownership of Documents Drawings, specifications, reports, programs, manuals, or other documents, including all documents on electronic media, prepared under this Agreement are instruments of service and are, and shall remain, the property of Client.

Record documents of service shall be based on the printed copy. Consultant will retain all common law, statutory, and other reserved rights, including the copyright thereto. Consultant will furnish documents electronically; however, the Client releases Consultant from any liability that may result from documents used in this form. Consultant shall not be held liable for reuse of documents or modifications thereof by the Client or its representatives for any purpose other than the original intent of this Agreement, without written authorization of and appropriate compensation to Consultant.

Standard of Care Services provided by Consultant under this Agreement will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. Consultant makes no other warranty or guaranty, either express or implied. Consultant will not be liable for the cost of any omission that adds value to the Project.

Period of Service This Agreement shall remain in force until completion and acceptance of the services or until terminated by mutual agreement. Consultant shall perform the services for the Project in a timely manner consistent with sound professional practice. Consultant will strive to perform its services according to the Project schedule set forth in the provisions for Scope of Work/Fee/Schedule above. The services of each task shall be considered complete when deliverables for the task have been presented to the Client. Consultant shall be entitled to an extension of time and compensation adjustment for any delay beyond Consultant control.

Insurance and Liability Consultant shall maintain the following insurance and coverage limits during the period of service. The Client will be named as an additional insured on the Commercial General Liability and Automobile Liability insurance policies.

Worker's Compensation – as required by applicable state statute
Commercial General Liability - \$1,000,000 per occurrence for bodily injury, including death and property damage, and \$2,000,000 in the aggregate
Automobile Liability –\$1,000,000 combined single limit for bodily injury and property damage
Professional Liability (E&O) - \$5,000,000 each claim and in the aggregate

The Client shall make arrangements for Builder's Risk, Protective Liability, Pollution Prevention, and other specific insurance coverage warranted for the Project in amounts appropriate to the Project value and risks. Consultant shall be a named insured on those policies where Consultant may be at risk. The Client shall obtain the counsel of others in setting insurance limits for construction contracts.

Indemnification Consultant shall indemnify and hold harmless the Client and its employees from any liability, settlements, loss, or costs (including reasonable attorneys' fees and costs of defense) to the extent caused by the negligent act, error, or omission of Consultant in the performance of services under this Agreement. If such damage results in part by the negligence of another party, Consultant shall be liable only to the extent of Consultant's proportional negligence.

Dispute Resolution The Client and Consultant agree that they shall diligently pursue resolution of all disagreements within 45 days of either party's written notice using a mutually acceptable form of mediated dispute resolution prior to exercising their rights under law. Consultant shall continue to perform services for the Project and the Client shall pay for such services during the dispute resolution process unless the Client issues a written notice to suspend work. Causes of action between the parties to this Agreement shall be deemed to have accrued and the applicable statutes of repose and/or limitation shall commence not later than the date of substantial completion.

Suspension of Work The Client may suspend services performed by Consultant with cause upon fourteen (14) days written notice. Consultant shall submit an invoice for services performed up to the effective date of the work suspension and the Client shall pay Consultant all outstanding invoices within fourteen (14) days. If the work suspension exceeds thirty (30) days from the effective work suspension date, Consultant shall be entitled to renegotiate the Project schedule and the compensation terms for the Project.

Termination The Client or Consultant may terminate services on the Project upon seven (7) days written notice without cause or in the event of substantial failure by the other party to fulfill its obligations of the terms hereunder. Consultant shall submit an invoice for services performed up to the effective date of termination and the Client shall pay Consultant all outstanding invoices, together with all costs arising out of such termination, within fourteen (14) days. The Client may withhold an amount for services that may be in dispute provided that the Client furnishes a written notice of the basis for their dispute and that the amount withheld represents a reasonable value.

Authorized Representative The Project Manager assigned to the Project by Consultant is authorized to make decisions or commitments related to the project on behalf of Consultant. Only authorized representatives of Consultant are authorized to execute contracts and/or work orders on behalf of Consultant. The Client shall designate a

representative with similar authority. Email messages between Client and members of the project team shall not be construed as an actual or proposed contractual amendment of the services, compensation or payment terms of the Agreement.

Project Requirements The Client shall confirm the objectives, requirements, constraints, and criteria for the Project at its inception. If the Client has established design standards, they shall be furnished to Consultant at Project inception. Consultant will review the Client design standards and may recommend alternate standards considering the standard of care provision.

Independent Consultant Consultant is and shall be at all times during the term of this Agreement an independent consultant and not an employee or agent of the Client. Consultant shall retain control over the means and methods used in performing Consultant's services and may retain subconsultants to perform certain services as determined by Consultant.

Compliance with Laws Consultant shall perform its services consistent with sound professional practice and endeavor to incorporate applicable laws, regulations, codes, and standards applicable at the time the work is performed. In the event that standards of practice change during the Project, Consultant shall be entitled to additional compensation where additional services are needed to conform to the standard of practice.

Permits and Approvals Consultant will assist the Client in preparing applications and supporting documents for the Client to secure permits and approvals from agencies having jurisdiction over the Project. The Client agrees to pay all application and review fees.

Consequential Damages Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, neither the Client nor Consultant, their respective officers, directors, partners, employees, contractors or subconsultants shall be liable to the other or shall make any claim for any incidental, indirect or consequential damages arising out of or connected in any way to the project or to this Agreement. This mutual waiver of consequential damages shall include, but is not limited to, loss of use, loss of profit, loss of business, loss of income, loss of reputation or any other consequential damages that either party may have incurred from any cause of action including negligence, strict liability, breach of contract and breach of strict or implied warranty. Both the Client and Consultant shall require similar waivers of consequential damages protecting all the entities or persons named herein in all contracts and subcontracts with others involved in this project or with this Agreement.

Waiver of Subrogation Consultant shall endeavor to obtain a waiver of subrogation against the Client, if requested in writing by the Client, provided that Consultant will not increase its exposure to risk and Client will pay the cost associated with any premium increase or special fees.

Environmental Matters The Client warrants that they have disclosed all potential hazardous materials that may be encountered on the Project. In the event unknown hazardous materials are encountered, Consultant shall be entitled to additional compensation for appropriate actions to protect the health and safety of its personnel, and for additional services required to comply with applicable laws. The Client shall indemnify Consultant from any claim related to hazardous materials encountered on the Project except for those events caused by negligent acts of Consultant.

Cost Opinions Consultant shall prepare cost opinions for the Project based on historical information that represents the judgment of a qualified professional. The Client and Consultant acknowledge that actual costs may vary from the cost opinions prepared and that Consultant offers no guarantee related to the Project cost.

Contingency Fund The Client acknowledges the potential for changes in the work during construction and the Client agrees to include a contingency fund in the Project budget appropriate to the potential risks and uncertainties associated with the Project. Consultant may offer advice concerning the value of the contingency fund; however, Consultant shall not be liable for additional costs that the Client may incur beyond the contingency fund they select unless such additional cost results from a negligent act, error, or omission related to services performed by Consultant.

Safety Consultant shall be responsible solely for the safety precautions or programs of its employees and no other party.

Information from Other Parties The Client and Consultant acknowledge that Consultant will rely on information furnished by other parties in performing its services under the Project. Consultant shall not be liable for any damages that may be incurred by the Client in the use of third party information.

Force Majeure Consultant shall not be liable for any damages caused by any delay that is beyond Consultant's reasonable control, including but not limited to unavoidable delays that may result from any acts of God, strikes, lockouts, wars, acts of terrorism, riots, acts of governmental authorities, extraordinary weather conditions or other natural catastrophes, or any other cause beyond the reasonable control or contemplation of either party.

Waiver of Rights The failure of either party to enforce any provision of these terms and conditions shall not constitute a waiver of such provision nor diminish the right of either party to the remedies of such provision.

Warranty Consultant warrants that it will deliver services under the Agreement within the standard of care. No other expressed or implied warranty is provided by Consultant.

Severability Any provision of these terms later held to be unenforceable shall be deemed void and all remaining provisions shall continue in full force and effect. In such event, the Client and Consultant will work in good faith to replace an invalid provision with one that is valid with as close to the original meaning as possible.

Survival All obligations arising prior to the termination of this Agreement and all provisions of these terms that allocate responsibility or liability between the Client and Consultant shall survive the completion or termination of services for the Project.

Assignments Neither party shall assign its rights, interests, or obligations under the Agreement without the express written consent of the other party.

Governing Law The terms of Agreement shall be governed by the laws of the state where the services are performed provided that nothing contained herein shall be interpreted in such a manner as to render it unenforceable under the laws of the state in which the Project resides.

Collection Costs In the event that legal action is necessary to enforce the payment provisions of this Agreement if Client fails to make payment within sixty (60) days of the invoice date, Consultant shall be entitled to collect from the Client any judgment or settlement sums due, reasonable attorneys' fees, court costs, and expenses incurred by Consultant in connection therewith and, in addition, the reasonable value of Consultant's time and expenses spent in connection with such collection action, computed at Consultant's prevailing fee schedule and expense policies.

Equal Employment Opportunity Consultant will comply with federal regulations pertaining to Equal Employment Opportunity. Consultant is in compliance with applicable local, state, and federal regulations concerning minority hiring. It is Consultant's policy to ensure that applicants and employees are treated equally without regard to race, creed, sex, color, religion, veteran status, ancestry, citizenship status, national origin, marital status, sexual orientation, or disability. Consultant expressly assures all employees, applicants for employment, and the community of its continuous commitment to equal opportunity and fair employment practices.

Attorney Fees Should there be any suit or action instituted to enforce any right granted in this contract, the substantially prevailing party shall be entitled to recover its costs, disbursements, and reasonable attorney fees from the other party. The party that is awarded a net recovery against the other party shall be deemed the substantially prevailing party unless such other party has previously made a bona fide offer of payment in settlement and the amount of recovery is the same or less than the amount offered in settlement. Reasonable attorney fees may be recovered regardless of the forum in which the dispute is heard, including an appeal.

Third Party Beneficiaries Nothing in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the Client or the Consultant. The Consultant's services under this Agreement are being performed solely for the Client's benefit, and no other entity shall have any claim against the Consultant because of this Agreement or the performance or nonperformance of services hereunder. The Client agrees to include a provision in all contracts with contractors and other entities involved in this project to carry out the intent of this paragraph.

Lien Rights Consultant may file a lien against the Client's property in the event that the Client does not make payment within the time prescribed in this Agreement. The Client agrees that services by Consultant are considered property improvements and the Client waives the right to any legal defense to the contrary.

Captions The captions herein are for convenience only and are not to be construed as part of this Agreement, nor shall the same be construed as defining or limiting in any way the scope or intent of the provisions hereof.