NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
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September 11, 2017

BLW Properties of Churchville, LLC
Brian Wilkins
7520 State Rte 415
Bath, NY 14810

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter
Churchville Ford, Churchville
Monroe County, Site No.: V00658

Dear Mr. Wilkins;

The Department has reviewed your Periodic Review Report (PRR) for following period: July 7, 2015 to June 1, 2017. The Department is requesting the following information to be included in the PRR and resubmitted for approval:

- Please discuss the nuisance dust on June 8, 2016 in accordance with the Odor Control Plan within the Site Management Plan. Discuss any measures that were implemented to resolve the issue. In addition, please provide the Community Air Monitoring results for that day in Appendix E.

- Include the Short Term Sewer Discharge Permit granted by the Monroe County Pure Waters Environmental Service Department.

- The graphs below Table 4G represent trends of contaminants of concern since injections in 2012. Please modify the vertical axes of the graphs so that the trends are visible.

Please submit a revised PRR that addresses these comments by **October 5, 2017**.

If you have any questions, or need additional forms, please contact me at 585-226-5349 or e-mail: danielle.miles@dec.ny.gov.

Sincerely,

Danielle Miles, EIT
Assistant Engineer

ec:
Bernette Schilling
Greg Andrus
John Frazer
Wade Silkworth
Susan Hilton
Frank Sowers
Ariadna Cheremeteff
Eamonn O'Neil
Justin Deming

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October 20, 2017

Brian Wilkins
BLW Properties of Churchville, LLC
7520 State Rte 415
Bath, NY 14810

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

Churchville Ford, Churchville
Monroe County, Site No.: V00658

Dear Mr. Wilkins:

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: July 7, 2015 to June 1, 2017.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 1 year(s), your next PRR is due on June 1, 2018. You will receive a reminder letter and updated certification form approximately 45-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions, please contact me at 585-226-5349 or e-mail danielle.miles@dec.ny.gov.

Sincerely,

Danielle Miles, EIT
Environmental Engineer

ec: Bernette Schilling
Greg Andrus
John Frazer
Wade Silkworth
Eamonn O'Neil
Justin Deming
Ariadna Cheremeteff
Frank Sowers

Periodic Review Report- 2016/2017

Former Churchville Ford, Inc. Site
NYSDEC Voluntary Cleanup Program Site #V00658
Village of Churchville, Town of Riga, Monroe County, New York

Prepared for:
BLW Properties of Churchville, LLC
7520 State Route 415
Bath, New York 14810

Prepared by:

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL
339 East Avenue, Suite 200
Rochester, New York 14604

June 2017

Table of Contents

Executive Summary

The former Churchville Ford Site (hereinafter referred to as the "Site"), located at 111 South Main Street in the Village of Churchville, Town of Riga, Monroe County, New York, is approximately six (6) acres. The Site is owned by BLW Properties of Churchville, LLC and has been used as a commercial auto, boat and recreational vehicle sales and service facility. An environmental investigation conducted in 2002 (in conjunction with the transfer of ownership of property) identified groundwater and subsurface soil contamination. A remedial investigation (RI) was conducted between 2004 and 2008. This Periodic Review Report (PRR) covers Site monitoring and inspection events and activities conducted at the Site from July 7, 2015- June 1, 2017. It is noted that due to Site redevelopment activities and remedial efforts completed in 2016, the New York State Department of Environmental Conservation (NYSDEC) did not require PRR submission in 2016.

The RI results indicated a source area containing trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (cis-1,2-DCE) in groundwater beneath the southwestern portion of the former building at levels exceeding NYSDEC Part 703.5 Groundwater Standards and NYSDEC Guidance applicable groundwater standards (Technical and Operational Guidance Series ((TOGS)1.1.1). This area was formerly used for solvent and waste oil storage. Remedial action was recommended to address the chlorinated solvents detected in groundwater at concentration levels exceeding applicable guidance criteria.

The Site was remediated in accordance with and subject to a Voluntary Cleanup Agreement (VCA) # B8-0640-03-09, Site # V00658-8 which was executed on September 29, 2003 and amended on April 9, 2009. The VCA was initiated by former owners Joseph Ognibene and Antonio Gabriele. Remedial activities occurred from May 2009 to January 2010 and were conducted in accordance with the Site Remedial Action Work Plan (RAWP), dated December 2008, and a minor modification, dated September 4, 2009. In-situ chemical oxidation (ISCO) using injected sodium permanganate (NaMnO4) was started in June 2009 and completed in January 2010. NaMnO4 was injected into the soil and groundwater underlying the source area in the southwestern portion of the former building.

Additional soil vapor intrusion (SVI) sampling was conducted beneath the workshop floor slab after the NaMnO4 injection was completed to determine if vapor intrusion mitigation or long-term monitoring measures were necessary. As detailed in the Site Management Plan (SMP), a Sub-Slab Depressurization System (SSDS) was installed in June 2011 in the western portion of the building (workshop).

In reference to NYSDEC letters dated September 17, 2014 and January 20, 2015, a Remedial Optimization Work Plan (ROWP) deferral for additional chemical oxidation injection was issued by the NYSDEC due to on-Site redevelopment activities.

In September 2015, a Site Change of Use was approved by the NYSDEC for Site redevelopment activities. This Change of Use included the construction of a 44,000 square foot building with 36,000 square feet located in the boundaries of the VCP Site and the demolition of the existing building, decommissioning of existing utilities, and Site-regrading.

As part of the redevelopment, a series of pre-excavation notifications detailing soil sampling programs prior to soil excavation/disturbance were submitted to the NYSDEC in accordance to requirements set forth in the SMP and Environmental Work Plan. A remedial approach to address impacted subsurface soils beneath the western portion of the former building, the "Source Area," was also developed and approved by the NYSDEC in 2016. A Remedial Design Construction Completion Report (CCR) detailing all Site activities associated with the redevelopment is being submitted to the NYSDEC concurrently with this PRR.

The remedial approach included soil removal and ISCO (Regenesis Inc. PersulfOx®) to address residual impacted groundwater. The effectiveness of ISCO is being evaluated through subsequent groundwater sampling as discussed in this report. The Site cap was restored upon completion of the project and was evaluated as part of the Site inspection.

Due to an oversight, a SSDS was not installed in the new building (which contains 36,000 square feet within the boundary of the VCP Site). Thus, to obtain compliance with the SMP, a SVI Corrective Measures Work Plan was developed and implemented with NYSDEC and NYSDOH approval in June 2016. Such corrective measures involved two (2) rounds of SVI sampling with one (1) in the heating season due to pressure differential. SVI analytical results indicated the presence of Site contaminants below New York State Department of Health (NYSDOH) guidelines. Based upon the results of the SVI sampling, the NYSDEC determined that at this time (June 2017), a SSDS is not required in the newly constructed building.

The effectiveness of the remedial program as outlined in the SMP has been monitored through SVI sampling in the recently constructed building and groundwater sampling. In general, post-remedial groundwater sampling results indicate that the existing contamination appears to be attenuating in groundwater in the vicinity of the established source area. It is likely that concentrations will continue declining due to the sustained oxidative action of PersulfOx®. Groundwater samples collected during this reporting period (July 7, 2015 to June 1, 2017) showed concentrations of chlorinated volatile organic compounds (CVOCs) exceeding applicable groundwater standards.

In general, the implemented remedies to manage the residual contamination are effective, protective, and are progressing towards the remedial action objectives. The Institutional Controls and Engineering Controls (ICs and ECs) and procedures outlined in the Monitoring Plan and Operation and Maintenance Plan were complied with during this reporting period.

1.0 Periodic Review Report

This Periodic Review Report (PRR) was prepared by Lu Engineers, on behalf of BLW Properties of Churchville, LLC, pursuant to NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May, 2010 and the guidelines provided by the NYSDEC. The first PRR was required eighteen (18) months after the issuance of the Release and Covenant. The reporting period for this PRR is from July 7, 2015 to June 1, 2017. The following items are included in this PRR:

- Identification, assessment, and certification of each EC/IC required by the remedy for the Site.
- Results of the Site inspection and sampling events including applicable inspection forms and other records generated for the Site during the reporting period.
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions.
- Data summary tables of groundwater and surface water contaminants of concern by media. These include a presentation of past VOC and metal data as part of an evaluation of contaminant concentration trends.
- Laboratory analysis results and the required laboratory data deliverables for each sample collected during the reporting period have been and will continue to be submitted electronically in a NYSDEC-approved EQuIS format.
- A Site evaluation, which includes the following:
    I. The compliance of the remedy with the requirements of the Site-specific Record of Decision (ROD);
    II. The operation and the effectiveness of each treatment unit, including identification of any needed repairs or modifications;
    III. Any new conclusions or observations regarding Site contamination based on inspection or lab data generated during the monitoring events;
    IV. Recommendations regarding any necessary changes to the remedy and/or SMP; and
    V. The overall performance and effectiveness of the remedy to date.

A CCR is being submitted in conjunction with this report as required by the NYSDEC. This CCR summarizes recent Site redevelopment activities that involved temporary Cap removal and a remedial program. The Cap has been restored since completion of Site activities. All work was completed with NYSDEC approval and oversight.

2.0 Site Overview

The former Churchville Ford Site, located at 111 South Main Street in the Village of Churchville, Town of Riga, Monroe County, New York, consists of approximately six (6) acres and has been used as a commercial auto, boat and recreational vehicle sales and service facility in recent years (Figure 1). The Site is located north of Interstate Route 490 and Sanford Road. The topography of the Site is relatively flat, however, the elevation drops abruptly towards Sanford Road to the south and gently to the property in the west.

The Site is surrounded by residential and commercial land to the north, South Main Street and residential housing to the east, Sanford Road and Interstate Route 490 to the south and a commercial Camping World Recreational Vehicle sales facility to the west. The majority of the Site is covered with asphalt pavement and the Site sales/service building.

Contamination was found at the Site in 2002 during an environmental investigation conducted in conjunction with a property transfer. A Remedial Investigation (RI) was conducted between 2004 and 2008. Subsurface soil analytical results did not indicate volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), or metals above the Restricted Commercial Use Guidance Values (6 New York Codes, Rules, and Regulations (NYCRR) Part 375-6), therefore soil remediation was not required. Chlorinated VOCs (CVOCs) were detected in groundwater beneath the southwestern portion of the building at levels exceeding 6 NYCRR Part 703.5 Class GA drinking water standards. This area was formerly used for solvent and waste oil storage. The contamination appeared to be limited to this areas and west of the western wall of the former building. Based on the findings of the RI, remedial action was recommended to address chlorinated solvents detected in groundwater at levels exceeding applicable guidance criteria.

Remedial activities were completed at the Site between May 2009 and January 2010. The remedial measure utilized was In-Situ Chemical Oxidation (ISCO) using sodium permanganate ($NaMnO_4$). $NaMnO_4$ was injected into groundwater where CVOC concentrations exceeded 5 parts per billion (ppb) and 2 ppb for vinyl chloride. When this chemical oxidant comes into contact with organic compounds such as TCE, PCE, and associated breakdown products, a reaction occurs oxidizing the organic contaminants to relatively benign compounds, such as carbon dioxide (CO^2) and water (H_2O). NaMnO4 was injected using a Geoprobe® GS2000 cart-mounted injection system and was administered through a series of injection wells (primarily 4 to 11.5 feet with a maximum depth of 20 feet) to treat saturated soils as well as groundwater.

Soil vapor intrusion (SVI) sampling was conducted in the former building after the NaMnO4 injection was completed to determine if additional vapor intrusion mitigation or long-term indoor air monitoring measures were needed. Based on the results and as described in the SMP, a sub-slab depressurization system (SSDS) was installed in June 2011 in the western portion of the building. The presence of the SSDS precluded the need for monitoring of indoor air.

As part of Site redevelopment in 2016, a remedial approach to address impacted subsurface soils beneath the western portion of the former building, the "Source Area," was developed and approved by the NYSDEC in 2016. The Excavation Notification-Remedial Design, dated April 19, 2016, was submitted and approved by the NYSDEC, per requirements set forth in the SMP and EWP. Excavation oversight, existing utility protection, field screening and sampling along with community air monitoring were performed in accordance to the EWP.

Soil was removed from the source area and appropriately handled for off-Site disposal as non-hazardous waste to Mill Seat Landfill in Riga, New York. Soil designated as "clean" per 6 NYCRR Part 375 Unrestricted Reuse Criteria was used as clean cover soil in the property adjoining the VCP property as fill and Site grading material.

The remedial approach also involved the application of ISCO (PersulfOx®) to address residual impacted groundwater. The effectiveness of ISCO was evaluated through subsequent groundwater sampling completed in December 2016 and May 2017, as discussed in this report and in accordance to the SMP. Upon completion of ISCO application, the excavation area was backfilled with #2 crusher run, compliant with DER-10 Section 5.4(e), and the Site was regraded with a new asphalt cover in the location of the former building for use as a parking lot.

It is noted that due to the excavation activities, MW-03 was decommissioned pursuant to NYSDEC CP-43 and removed. This well was replaced with MW-03R following completion of source area soil removal. The locations of the monitoring wells were re-surveyed in December 2016 (refer to Figures 2, 3, and 4). The Cap was fully restored upon completion of Site regrading and excavation work.

A SSDS was not installed in the newly constructed building, therefore, a SVI Corrective Measures Plan was implemented following the completion of building construction and contaminant source removal in 2016. Two (2) rounds of SVI sampling to assess the sub-slab and interior air quality were completed in July 2016 and December 2016, pursuant to the *NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006*. The second round was completed during the heating season due to the pressure differential associated with typical building heating systems.

The effectiveness of the remedial program as outlined in the SMP has been monitored through SVI sampling in the recently constructed building and groundwater sampling. In general, post-remedial groundwater sampling results indicate that the existing contamination persist, but also appears to be attenuating in groundwater in the source area. Groundwater samples collected during this reporting period (July 8, 2015 to July 1, 2017) showed concentrations of chlorinated volatile organic compounds (CVOCs) exceeding applicable groundwater standards. SVI analytical results indicate the presence of Site contaminants below New York State Department of Health (NYSDOH) guidelines inside the newly constructed building.

The SMP requires an Institutional Control (IC) in the form a Deed Restriction (DR) which requires the following; a) limiting the use and development of the property to commercial use,

which also permits industrial use; b) compliance with the approved SMP; c) restriction on the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH); and d) the property owner to complete and submit an annual certification of Institutional and Engineering Controls (ICs/ECs).

Long term management of remaining contamination, as required by the DR, includes the following plans for ECs; 1) Monitoring; 2) Operation and maintenance; and 3) Reporting. The specific ECs implemented at the Site include: a) semi-annual groundwater sampling of monitoring wells MW-3R, MW-6, MW-13 and MW-JCL-02 for VOCs, iron and manganese; b) management and inspection of the existing soil cover system (the cap); and c) inspection and maintenance of the existing retaining wall.

3.0 Remedy Performance, Effectiveness, and Protectiveness

The most recent ISCO application (PersulfOx®) occurred in June 2016 and prior to 2016, the last remedial ISCO injection occurred on January 15, 2010 by Lu Engineers using $NaMNO_4$. Post-remedial groundwater and SVI sampling indicate that groundwater contamination remains in the source area with evidence of attenuation, as suggested by this reporting period's analytical data. 13 post-remedial groundwater sampling events and three (3) SVI sampling events have been conducted at the Site since the completion of the $NaMnO_4$ ISCO program. All sampling events were conducted in accordance with and as outlined in the RAWP and SMP. The following is a list of all post-remedial groundwater and SVI sampling events:

- February and August 2010 (per RAWP)
- December 2011 (per SMP)
- June and November 2012 (per SMP)
- June and November 2013 (per SMP)
- June 2014 (per SMP)
- November 2014 (per SMP)
- June 2015 (per SMP)
- November 2015 (per SMP)
- July 2016 (per SVI Corrective Measures Plan)
- December 2016 (per SMP and SVI Corrective Measures Plan)
- May 2017 (per SMP)

Tables 1 and 2, included as an attachment to this report, indicate bi-annual VOC and iron and manganese sample concentrations since June 2012 following implementation of the remedies described in the SMP. Table 1 shows detected VOC concentrations in groundwater samples compared to the applicable NYSDEC 6 NYCRR Part 703.5 Class GA and TOGs 1.1.1 Groundwater Standards. Table 2 shows detected concentrations of iron and manganese, known indicators of natural attenuation, in comparison to applicable groundwater standards. Both tables include a trend analysis graph of contaminant concentration in groundwater since June 2012.

Following a significant decrease in CVOC concentrations observed in the post-remedial 2010 groundwater sampling events, CVOC concentrations increased in 2011 and 2012, exceeding applicable groundwater standards in each well tested except MW-13 where no VOCs have been detected since June 2012.

As indicated in the 2012 Annual Report, wells MW-03, MW-JCL-02 and MW-06 all revealed CVOC detections exceeding NYSDEC Part 703.5 groundwater standards in 2012. Sample results indicated an increase in PCE concentrations in source area wells MW-3, MW-JCL-02 and MW-6 over the December 2011 results. TCE and cis-1,2-dichloroethene concentrations dropped in MW-03 but increased in MW-JCL-02 compared to December 2011 results. CVOC concentrations declined in June 2012. No VOCs were detected in well MW-13 during either sampling event.

Iron (Fe) and manganese (Mn) levels varied between December 2011 and June 2012, generally dropping during that time period. Fe and Mn exceeded applicable groundwater standards in both 2012 sampling events for all wells except MW-03, which was below standards for both metals in June 2012. Due to the relatively low permeability of Site soils and previous remedial injection of NaMnO4 at the Site, it is anticipated that Fe and Mn concentrations may continue to fluctuate due to oxidation.

Groundwater collected from MW-06 and MW-JCL-02 continue to exceed applicable groundwater standards through the most recent sampling event conducted in May 2017.

The ICs established for the Site have been and continue to be in compliance with the SMP. Though residual contamination exists in the groundwater following source area soil removal, these controls reduce the potential for human exposure. The ECs established for the Site are also effective in limiting the potential for human exposure to known Site contaminants.

4.0 Institutional Controls/Engineering Control Plan Compliance

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, ICs/ECs are required to protect public health and the environment. The IC/EC Plan is one (1) component of the SMP and is subject to revision by NYSDEC.

Institutional Controls (ICs)
A series of ICs are required by the SMP to: (1) implement, maintain and monitor EC systems; (2) prevent exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to commercial and industrial uses only. Adherence to these ICs on the Site is required by the DR and implemented under the SMP.

- Land Use Restriction – Site property use is limited to Commercial and Industrial uses only; the Site is currently used as a commercial recreational vehicle sales and service

facility and has met the requirements of this restriction throughout this reporting period.

- Groundwater Use Restriction – Use of groundwater as a potable or process water source is prohibited; the Site is currently connected to a supplied potable water source from the Village of Churchville and does not use the Site groundwater.

- Site Management Plan (SMP) – Compliance with the SMP is required, including required periodic certifications; the Site was in compliance with all components of the Site-specific SMP throughout this reporting period.

Additional Site restrictions that apply to the Controlled Property are:

- The property may not be used for a higher level of use, without additional remediation and amendment of the DR, as approved by the NYSDEC;
- All future activities on the property that will disturb residual impacted material must be conducted in accordance with the SMP;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, any potential impacts that are identified must be monitored or mitigated;
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;
- NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Institutional Controls identified in the DR may not be discontinued without an amendment to or extinguishment of the DR.

Engineering Controls (ECs)

- Soil Cover System (Cap) – Exposure to residual contamination in subsurface soil/fill, groundwater and soil vapor at the Site is prevented by a soil cover system placed over the Site (the "Cap"). This cover system consists of asphalt pavement, concrete-covered sidewalks, and concrete building slabs. Procedures for maintaining the Cap are documented in the Operation and Maintenance Plan in Section 4 of the SMP.

  The Excavation Work Plan (EWP) in Appendix A of the SMP outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying residual contamination is disturbed.

Procedures for the inspection, maintenance and monitoring of this cover are provided in the Monitoring Plan included in Section 3 of the SMP.

In October 2013, improvements were made to the Site Cap (EC). Per the provisions outlined in the SMP, the NYSDEC was notified of the planned improvement. The former cap was milled and repaved with new asphalt, including in the contaminant source area immediately west of the former Site building. Approximately 2/3 of the Site was repaved (central and eastern portions). No soil was disturbed as part of the re-surfacing process, therefore no monitoring was required per the Excavation Work Plan (EWP) in the SMP. The cap replacement was completed in October 2013 and as a component of the cap replacement, Trec Environmental, Inc. was contracted to install new flushmount protective boxes around all wells located within the repaving area. This included wells MW-03, MW-13, MW-JCL-02, and MW-JCL-03. The elevations of the solid PVC well risers at each well did not change during the protective box replacements.

As part of a redevelopment of the Site, a remedial approach, requiring temporary cap removal, to address impacted subsurface soils beneath the western portion of the former building, the "Source Area," was approved by the NYSDEC and completed in June 2016. This approach involved the removal of Source Area soil in the former building footprint, ISCO, as well as regrading of the Site.

In accordance to the Dust Control Plan (SMP Appendix A EWP, Section A-15), dust suppression measures involving frequent watering were implemented as needed throughout the remedial project. On June 8, 2016, sustained wind and dry and hot weather conditions on this particular day exacerbated the movement of small amounts of dust even with active dust suppression measures implemented. Due to the close proximity of a residential neighborhood to the east of the Site, continued observation of migrating dust and timely and effective use of dust control measures were necessary. This information with respect to dust control was included as requested by the NYSDEC in a letter dated September 11, 2017.

Upon completion of remedial activities and building construction, a new asphalt cover in the location of the former building and surrounding the recently constructed building was installed for use as a parking lot (refer to Figures 2 and 3). The Cap was restored and was in good condition during this reporting period as indicated on the Site Inspection Form (Attachment A); no breached areas were observed during the December 2016 and May 2017 sampling events. The concrete floor in the workshop area of the building was also in good condition.

SSDS – The building installed with the SSDS was demolished in 2016 as part of the Site redevelopment project and thus the SSDS was discontinued. Exposure to contamination in soil vapor beneath the former building was prevented by a SSDS installed beneath the western portion of the shop area of the building. This impacted "Source Area" soil was

removed as part of a remedial design completed during Site redevelopment. Access to the Source Area subsurface soil had been previously prevented by the building

The SSDS was installed in the former building in June 2011 in accordance with the NYSDEC-approved May 2011 Sub-Slab Depressurization System Design prepared by Lu Engineers and the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006). The SSDS was installed by Mitigation Tech, a national Environmental Health Association (NEHA) certified mitigation contractor. The Procedures for the inspection and maintenance of this SSDS are provided in the Monitoring Plan included in Section 3 of the SMP. Procedures for maintaining the SSDS are documented in the Operation and Maintenance Plan (Section 4 of the SMP). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the Site, occurs.

Due to an oversight, a SSDS was not installed in the newly constructed building, therefore, a SVI Corrective Measures Plan (June 2016), was developed and approved by the NYDEC. SVI sampling as part of the corrective measures was implemented following the completion of building construction and contaminant source area removal in 2016. This plan included two (2) rounds of SVI sampling to assess the sub-slab and interior air quality which were completed in July 2016 and December 2016, pursuant to the *NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006*. The second round was completed during the heating season due to the pressure differential associated with typical building heating systems.

During both SVI sampling rounds, Lu Engineers collected four (4) sub-slab vapor samples from beneath the office area floor, the parts storage area, and the maintenance workshop floor. Concurrently, three (3) indoor ambient air samples were taken in each round along with one (1) outdoor air sample. The analytical results from the SVI sampling events indicated the presences of VOCs including halocarbons, aromatics, and ketones. Analytical results were compared to the OSHA Permissible Exposure Limits (PELs) regulatory standards, NYSDOH air guideline values, and the decision matrices described in the *NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (2006). Analytical results from the second SVI round, conducted in December 2016, indicated reductions in concentration from the first round completed in July 2016. Such reductions were attributed to the implementation of effective storing methods to reduce chemical exposure, with particular focus in the parts storage and maintenance workshop areas. Per NYSDEC and NYSDOH determination, in a letter dated May 15, 2017, a SSDS was not required (at this time) and no additional SVI testing was planned.

The required IC/EC certification has been completed as a component of this report and a copy is included as Attachment D.

5.0 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected Site media identified in the table below.

Monitoring/Inspection Schedule

Monitoring Program	Frequency*	Matrix	Analysis
1	Bi-annually (seasonal high and low groundwater)	Groundwater	EPA Method 8260 EPA Method 6010 Manganese and Iron
2	N/A	SSDS	N/A
3	Bi-annually	Soil Cover	N/A

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

Monitoring activities completed during this reporting period (July 7, 2015-June 1, 2017) included the following:

- Bi-annual groundwater sampling of Site wells MW-03R, MW-JCL-02, MW-06, and MW-13;
- Two (2) SVI sampling rounds within the newly constructed building; and
- Bi-annual inspection of the Site soil cover system

Groundwater Sampling

The following table summarizes the details of the groundwater sampling program to be completed during each bi-annual sampling event.

Media Sampling and Analysis Summary

Sample Type	Sample Location	Analytical Parameters	Frequency	QA/QC	Total
Groundwater	MW-03R, 06, 13, MW-JCL-02	EPA 8260 EPA 6010 Manganese and Iron	Semi-annual (twice each year during seasonal high and low groundwater)	Trip Blank (1)	5

The previously-mentioned Site wells were sampled bi-annually with dedicated bailers per the procedures outlined in the SMP. Each well was purged a minimum of three (3) well volumes prior to sampling. Groundwater quality measurements including temperature, turbidity, pH, conductivity and oxidation reduction potential (ORP) were collected during the purging process at each well. No odors were observed during the groundwater sampling and water was generally turbid. Purge water from each well was containerized in steel 55-gallon drums. At each well, samples were collected for TCL VOCs (EPA Method 8260B), iron and manganese (EPA Method 6010C). Groundwater sampling logs are included as Attachment B of this report.

Results of the groundwater sampling conducted during this period are summarized in Tables 1 and 2 and depicted on Figures 2,3, and 4. Table 1 presents the analytical results of VOCs detected in groundwater from June 2012 through May 2017 in comparison to applicable standards. Table 2 presents the analytical results of iron and manganese (natural attenuation indicators) from June 2012 through May 2017. Both tables include a trend analysis graph of the analytical data. Figure 2 illustrates the detected VOCs concentrations in groundwater that exceed applicable standards for November 2015. Figure 3 illustrates the detected VOCs and associated concentrations in groundwater that exceed applicable standards for December 2016. Figure 4 illustrates the detected VOCs and associated concentrations in groundwater that exceed applicable standards for May 2017. Each figure also illustrates groundwater contours based on water level measurements collected at each well during each sampling event. It is noted that groundwater generally flows south and west across the Site, primarily following topography.

The following sections summarize the analytical results for each year within this reporting period.

2014

From June 2014 to November 2014, CVOC concentrations fluctuated and continued to exceed applicable groundwater standards in all monitoring wells. There was a general decline in concentration levels of PCE, TCE, and cis-1,2-DCE in MW-03 and MW-JCL-02. In MW-06, the PCE concentration level increased and dichlorodifluoromethane was detected for the first time since the June 2012 sampling event. Iron and manganese concentrations increased in MW-03 and MW-06 and decreased in MW-JCL-02. Concentration levels of these metals exceeded groundwater standards except for iron in MW-JCL-02.

2015

CVOC concentrations continued to fluctuate between July 2014 and July 2015. In MW-03, PCE and cis-1,2-DCE concentrations decreased and TCE slightly increased. Dichlorodifluoromethane concentration increased and PCE concentrations decreased in MW-06. Chloroform and TCE were also detected for the first time in MW-06 since semi-annual groundwater monitoring began in 2012. MW-JCL-02 had increases in cis-1,2-DCE, TCE, and PCE. Dichlorodifluoromethane was detected for the first time since the June 2012 sampling event in MW-JCL-02 as well. Between June 2015 and November 2015, contaminant concentrations remained relatively the same in MW-03 and MW-06. PCE decreased in MW-03 and slightly increased in MW-06. Cis-1,2-

DCE also decreased in MW-03. In JCL-02, dichlorodifluoromethane was not detected and concentrations of PCE, TCE, and 1,2-DCE declined. Consistent with previous years, no VOCs were detected in MW-13. All four (4) wells had increased concentrations of iron and manganese with the exception of manganese in MW-06. All concentrations of iron and manganese exceeded NYS groundwater standards for this period.

2016- May 2017

From November 2015 to December 2016, CVOC concentrations generally declined as indicated by analytical results from MW-JCL-02 and MW-06. MW-03 was decommissioned and removed during the source area soil removal in 2016 and replaced with MW-03R, installed on September 12, 2016. No CVOC concentration exceedances were detected in MW-03R in December 2016 or May 2017. It is noted that the ISCO agent, PersulfOx®, was evenly administered in the excavation following source area removal as approved by the NYSDEC in the Excavation Notification- Remedial Design, dated April 19, 2016.

Presumably, the CVOC reductions observed can be attributed to the oxidizing agent. Further reductions in PCE, TCE, and cis-1,2,-DCE were observed in MW-JCL-02 between December 2016 and May 2017, as shown on Table 1. A slight increase in PCE and dichlorodifluoromethane occurred in MW-06 between December 2016 and May 2016. No VOCs were detected in MW-13, as found in previous years.

As shown on Table 2, iron and manganese concentrations fluctuated during this reporting period. Overall, iron concentrations appeared to increase from November 2015 to May 2017 in three (3) of the monitoring wells. A notable increase in manganese and iron was observed between December2016 and May 2017 in MW-06. A significant rise in iron was also observed in MW-JCL-02 between December 2016 and May 2017.

In this reporting period, concentrations of CVOCs in the source area exceeded applicable groundwater standards. With the exception of MW-06, an overall decline in the concentrations of CVOCs was observed. All laboratory analytical data is included as Attachment C of this report. Samples were analyzed at Paradigm Environmental Services, Inc., a NYSDOH ELAP-CLP certified laboratory (ELAP) located in Rochester, New York. All sampling methods and QA/QC measures were adhered to as outlined in the approved SMP.

6.0 Operation and Maintenance Plan Compliance Report

ECs in place at the Site are the building floor slab, sidewalks and asphalt pavement, collectively referred to as the "Cap" or soil cover system, and the retaining wall. During this reporting period, operation and maintenance is limited to periodic inspection of the Cap, which is documented using the Site Inspection Form. The revised SMP, complete with Site updates, is being submitted for review by the NYSDEC. Copies of the Site Inspection Form are included as Attachment A in this report. The Operation and Maintenance Plan located in the SMP describes the measures necessary to operate, monitor and maintain the mechanical components of the

remedy selected for the Site. Descriptions of Site inspections and conditions are provided in Section 4.0 of this report.

7.0 Conclusions and Recommendations

IC/EC Compliance

The requirements and regulations set forth in the SMP for ICs were complied with during this reporting period. This includes the following:

Landuse Restriction – The Site is currently used as a commercial recreational vehicle sales and service facility and has met the requirements of this restriction in this reporting period.

Groundwater Use Restriction – The Site is currently connected to a supplied potable water source and does not use the Site groundwater in any capacity, therefore meeting the requirements of this restriction in this reporting period.

Site Management Plan (SMP) – The Site is currently in compliance with all components of the Site-specific SMP and all requirements have been met during this reporting period.

The requirements set forth in the SMP for all ECs were met during this reporting period. This includes the following:

Soil Cover System (Cap) – The Site Cap was in compliance with the SMP during this reporting period. Following asphalt replacement per the provisions outlined in the SMP in 2013 as well as Cap restoration following redevelopment activities in 2016, the Cap met and continues to meet the necessary compliance requirements. All requirements have been met during this reporting period.

Retaining Wall – The Site is currently in compliance with all components of the Site-specific SMP and all requirements have been met during this reporting period.

SSDS – The SSDS is no longer in operation due to the demolition of the former building; the SMP will be re-submitted with this change for review and approval by the NYSDEC.

Based on post-remedial groundwater and SVI sampling conducted to date, residual groundwater, soil, and soil vapor contamination persists, but also appears to be attenuating. Groundwater CVOC concentrations continue to fluctuate. However, it does not appear that residual contamination is migrating on Site. The previously discussed Site-specific ICs and ECs for the Site continue to meet the remedial objectives while establishing protection of public health and the environment. The continued effectiveness of the ICs/ECs have allowed the remedial objectives at the Site to be met for this reporting period.

It is recommended that the next PRR be submitted approximately one (1) year from submittal of this PRR. Lu Engineers also recommends that the Department considers discontinuing the bi-annual monitoring of monitoring well MW-13 due to consecutive rounds of sampling resulting in no VOC detections.

Tables

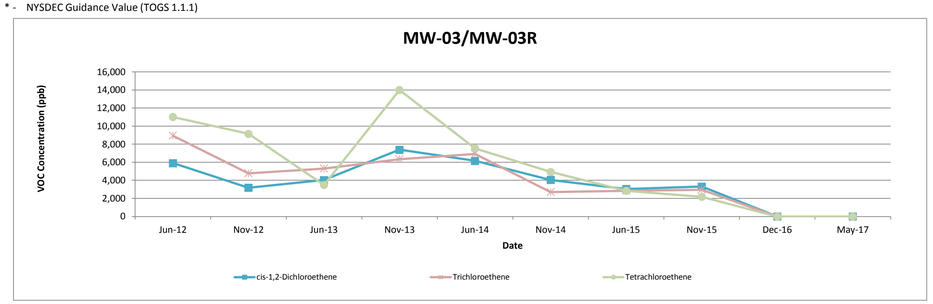
Wilkins RV (Former Churchville Ford) Site (#V00658-8)
Village of Churchville
Town of Riga
May 2017

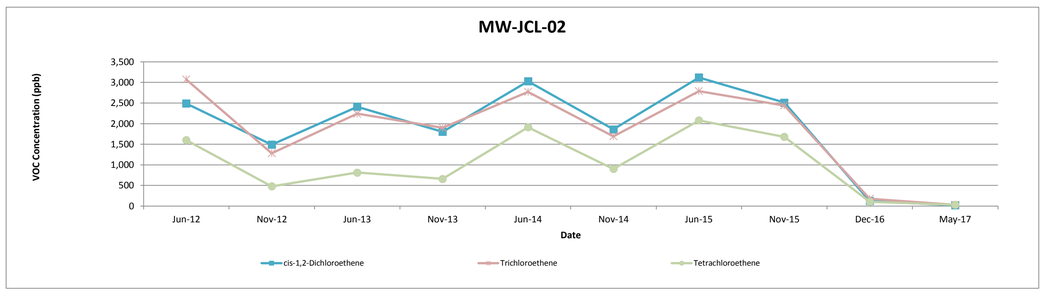
Table 1 Groundwater Results - VOCs

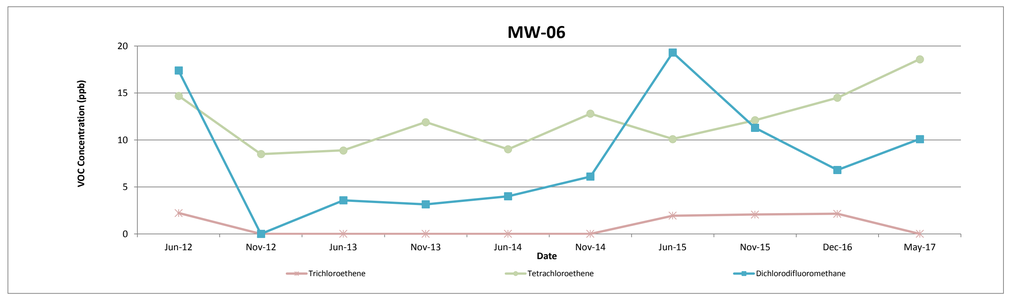
Detected Parameters[1]	NYS Groundwater Standard[2]	MW-03								MW-03R		MW-06										MW-13										MW-JCL-02									
		Post-Remediation								New		Post-Remediation										Post-Remediation										Post- Remediation									
		Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17
Acetone	**50***	ND	ND	**2270**	**1,200 B**	ND	ND	ND	ND	14.9	7.99 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**314**	**626 B**	ND	ND	ND	ND	13.0	21.1
Benzene	**1**	ND	ND	ND	ND	ND	ND	ND	ND	0.510 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.738	ND
Methylene Chloride	**5**	ND	**995 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**118 J**	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone (2-butanone)	**50***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.14 J
Chloroform	**7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.92	2.91	1.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.76	1.51 J
Dichlorodifluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	1.49	ND	**17.4**	1.75 J	3.59	3.15	4.01	**6.11**	**19.3**	**11.3**	**6.8**	**10.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**90 J**	ND	ND	ND	ND	ND	**68.5 J**	ND	2.91	ND
1,1-Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-Tert-Butyl Ether (MTBE)	**10***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	**11,000**	**9,140**	**3480**	**14,000**	**7,530**	**4,920**	**2,840**	**2,170**	ND	ND	**14.7**	**8.51**	**8.89**	**11.9**	**9.01**	**12.8**	**10.1**	**12.1**	**14.5**	**18.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1,600**	**480**	**812**	**659**	**1,910**	**900**	**2,080**	**1,680**	**102**	**32.2**
trans-1,2-Dichloroethene	**5***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.45	1.23 J
Trichloroethene	**5**	**8,940**	**4,760**	**5300**	**6,340**	**6,930**	**2,700**	**2,830**	**2,960**	ND	ND	2.22	1.92 J	1.5 J	1.78 J	1.47 J	ND	1.94	2.06	2.14	1.88 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3,070**	**1,280**	**2240**	**1,900**	**2,770**	**1,690**	**2,790**	**2,440**	**180**	**28.8**
Vinyl chloride	**2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**5**	**5,900**	**3,170**	**4030**	**7,380**	**6,150**	**4,040**	**3,030**	**3,300**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2,490**	**1,490**	**2410**	**1,800**	**3,030**	**1,860**	**3,120**	**2,510**	**121**	**17.8**

~ parameter detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

J - value is estimated
ND - Not detected above reporting limit
1 - Results presentend in ug/L or parts per billion (ppb)
2 - NYS Ambient Groundwater Standards (6 NYCRR Part 703.5)
* - NYSDEC Guidance Value (TOGS 1.1.1)







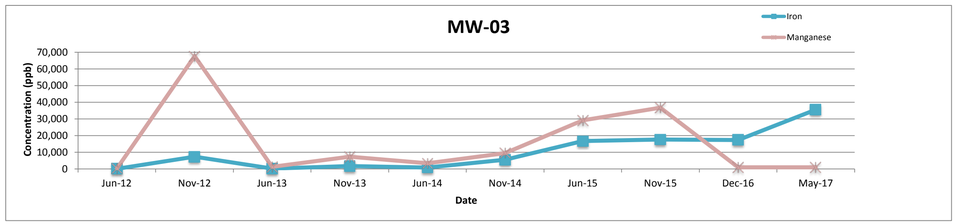
Wilkins RV (Former Churchville Ford) Site (#V00658-8)
Village of Churchville
Town of Riga
May 2017

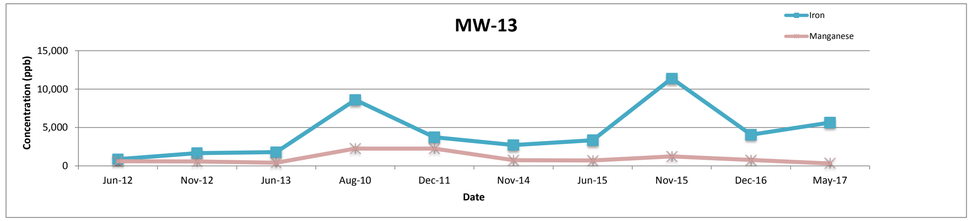
Table 2 Groundwater Results - Inorganics

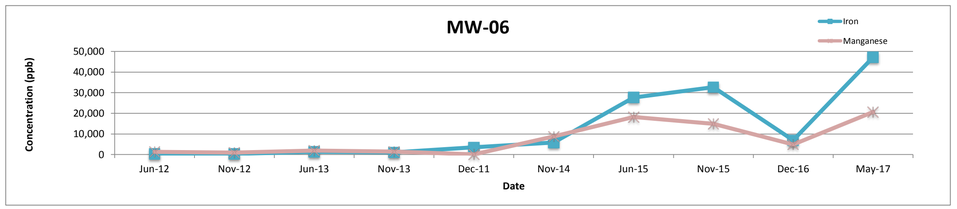
Analytical Parameters[1]	Groundwater Standard[2]	MW-03								MW-03R		MW-06										MW-13										MW-JCL-02									
		Post-Remediation										Post-Remediation										Post-Remediation										Post-Remediation									
		Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Jun-12	Nov-12	Jun-13	Nov-13	Dec-11	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Jun-12	Nov-12	Jun-13	Aug-10	Dec-11	Nov-14	Jun-15	Nov-15	Dec-16	May-17	Jun-12	Nov-12	Jun-13	Nov-13	Jun-14	Nov-14	Jun-15	Nov-15	Dec-16	May-17
Iron	**300****	134	7,370	229	1,740	789	5,460	16,700	17,700	17,400	35,600	360	378	1,340	1,110	3,510	5,830	27,700	32,700	6,990	47,200	875	1,670	1,800	8,610	3,740	2,710	3,340	11,400	4,060	5,630	5,250	611	6,140	10,600	4,630	195	22,700	38,000	7,860	47,500
Manganese	**300****	293	67,600	1,250	7,350	3,350	9,540	29,200	36,800	913	1,030	1,290	920	1,940	1,470	146	8,840	18,200	14,900	4,910	20,700	606	576	411	2,260	2,260	738	699	1,240	777	327	2,260	1,290	1,580	2,710	2,190	557	6,650	11,100	1,740	2,780

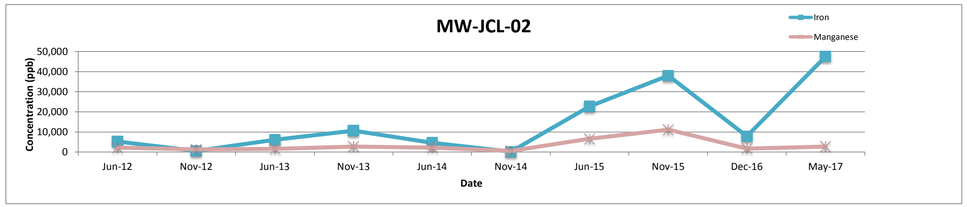
~ parameter detected above NYS Ambient Groundwater Standard or applicable NYSDEC Guidance Value

1 - Results presentend in ug/L (parts per billion)
2 - NYS Ambient Groundwater Standards (6 NYCRR Part 703.5)
** - Sum total concentration of Iron and Manganese standard is 500 ug/L per NYSDEC Part 703.5 Class GA groundwater standards

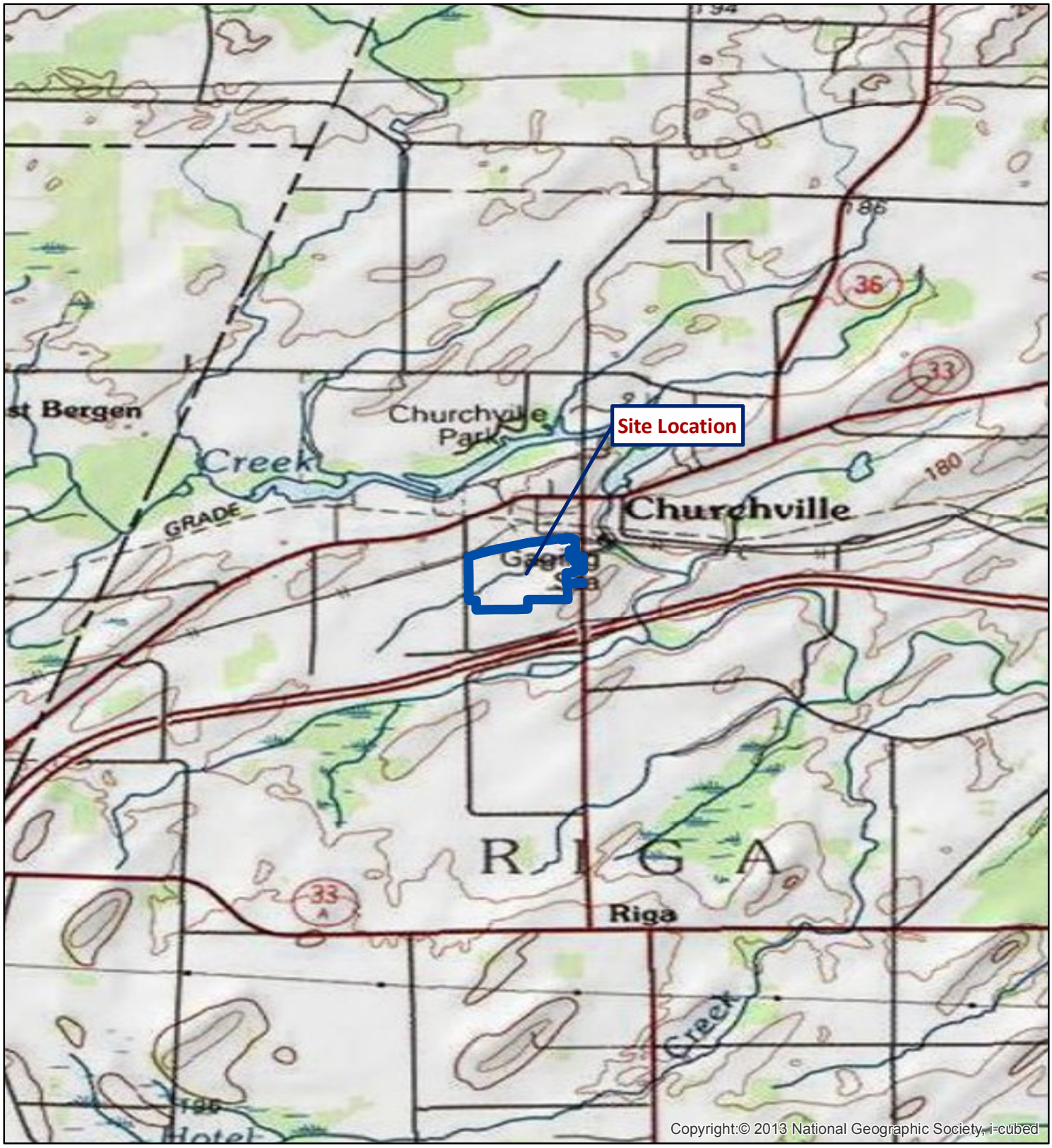








Figures



1 inch = 4,000 feet

0 2,500 5,000 10,000 Feet

N W E S

New York Quadrangle Location

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FIGURE 1
SITE LOCATION PLAN

97 SOUTH MAIN STREET
CHURCHVILLE, NEW YORK

DATE: June 2017
SCALE: AS NOTED
DRAWN/CHECKED: SMK/JB
DATA SOURCE: AS NOTED

MW-06:
Dichlorodifluoromethane: 11.3 ug/L
Tetrachloroethene: 12.1 ug/L
Iron: 32,700 ug/L
Manganese: 14,900 ug/L

MW-03:
Tetrachloroethene: 2,170 ug/L
Trichloroethene: 2,960 ug/L
Cis-1,2-Dichloroethene: 3,300 ug/L
Iron: 17,700 ug/L
Manganese: 36,800 ug/L

MW-JCL-02:
Tetrachlorothene: 1,680 ug/L
Trichloroethene: 2,440 ug/L
Cis-1,2-Dichloroethene: 2,510 ug/L
Iron: 38,000 ug/L
Manganese: 11,100 ug/L

MW-13:
Iron: 11,400 ug/L
Manganese: 1,240 ug/L

MW-22
MW-JCL-03
New Building Footprint
BLACKTOP PARKING LOT
PROVIDE 2' TALL MODULAR BLOCK RETAINING WALL (SEE DETAIL)
6' PLASTIC FENCE LINE
ARBORVITAE HEDGEROW
PROVIDE INLET PROTECTION (SEE DETAIL) (TYP.)
CONCRETE BLOCK RETAINING WALL (TO REMAIN)
111 S. MAIN BLW PROPERTIES
TAX # 143.17-01-50
LIBER 11068 PAGE 575
111 MAIN STREET

Legend
- Monitoring Well-Not Sampled
- Monitoring Well-Sampled
- Groundwater Elevation Contours

0 40 80 120 Feet
1 inch = 40 feet

Analytical results displayed in ug/L exceed 6 NYCRR Part703.5 Groundwater Standards

Figure 2. Groundwater Contours & Analytical Results
November 2015
Former Churchville Ford Site, #V00658
CHURCHVILLE, NY

DATE: November 2015
PROJECT NO: 50185-02
DRAWN/CHECKED: CB/AC
DATA SOURCE: ESRI BASEMAP

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MW-06:
Iron: 6,990 ug/L
Manganese: 4,910 ug/L
Dichlorodifluoromethane: 6.8 ug/L
Tetrachloroethene: 14.5 ug/L

MW-03R:
Iron: 17,400 ug/L
Manganese: 913 ug/L

MW-JCL-02:
Iron: 38,000 ug/L
Manganese: 11,100 ug/L
Tetrachloroethene: 102 ug/L
Trichloroethene: 180 ug/L
cis-1,2-Dichloroethene: 121 ug/L

MW-13:
Iron: 4,060 ug/L
Manganese: 777 ug/L

MW-22
MW-JCL-03
New Building Footprint
BLACKTOP PARKING LOT
PROVIDE 2' TALL MODULAR BLOCK RETAINING WALL (SEE DETAIL)
6' PLASTIC FENCE LINE
ARBORVITAE HEDGEROW
PROVIDE INLET PROTECTION (SEE DETAIL) (TYP.)
CONCRETE BLOCK RETAINING WALL (TO REMAIN)
111 S. MAIN BLW PROPERTIES
TAX # 143.17-01-50
LIBER 11068 PAGE 575
111 MAIN STREET

Legend
- Monitoring Well-Not Sampled
- Monitoring Well-Sampled
- Groundwater Elevation Contours

0 40 80 120 Feet
1 inch = 40 feet

Analytical results displayed in ug/L exceed 6 NYCRR Part703.5 Groundwater Standards

DATE: December 2016
PROJECT NO: 50185-02
DRAWN/CHECKED: CB/AC
DATA SOURCE: ESRI BASEMAP

Figure 3. Groundwater Contours & Analytical Results
December 2016
Former Churchville Ford Site, #V00658
CHURCHVILLE, NY

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MW-06:
Iron: 47,200 ug/L
Manganese: 20,700 ug/L
Dichlorodifluoromethane: 10.1 ug/L
Tetrachloroethene: 18.6 ug/L

MW-03R:
Iron: 35,600 ug/L
Manganese: 1,030 ug/L

MW-JCL-02:
Iron: 47,500 ug/L
Manganese: 2,780 ug/L
Tetrachloroethene: 32,2 ug/L
Trichloroethene: 28.8 ug/L
cis-1,2-Dichloroethene: 17.8 ug/L

MW-13:
Iron: 5,630 ug/L
Manganese: 327 ug/L

MW-22
MW-JCL-03
New Building Footprint
PROVIDE 2' TALL MODULAR BLOCK RETAINING WALL (SEE DETAIL)
PROVIDE INLET PROTECTION (SEE DETAIL) (TYP.)
CONCRETE BLOCK RETAINING WALL (TO REMAIN)
ARBORVITAE HEDGEROW
6' PLASTIC FENCE LINE
111 S. MAIN BLW PROPERTIES
T.A. # 143.17-00-50
LIBER 11068 PAGE 575
111 MAIN STREET

Legend
- Monitoring Well-Not Sampled
- Monitoring Well-Sampled
- Groundwater Elevation Contours

0 40 80 Feet
1 inch = 40 feet

Analytical results displayed in ug/L exceed 6 NYCRR Part703.5 Groundwater Standards

DATE: May 2017
PROJECT NO: 50185-02
DRAWN/CHECKED: CB/AC
DATA SOURCE: ESRI BASEMAP

Figure 4. Groundwater Contours & Analytical Results
May 2017
Former Churchville Ford Site, #V00658
CHURCHVILLE, NY

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SITE-WIDE INSPECTION FORM
FORMER CHURCHVILLE FORD VCP SITE

Date: 5/11/17

Name: Laura Gregor

Company: La Engineers

Position of person(s) conducting maintenance/inspection activities: Environmental Scientist

Document the following information during each biannual site visit for groundwater sampling:

1. Compliance with all ECs/ICs, including site usage

   Yes, all ECs/ICs appear to be in compliance.

2. An evaluation of the condition and continued effectiveness of the Site Cap and SSDS

   - Asphalt cap in excellent condition, no cracks or potholes.
   - New building in good condition
   - Former building w/ SSDS has been demolished. Current building does not have an SSDS system.

3. General site conditions at the time of the inspection

   The Site is in excellent condition. No unusual observations.

4. The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection

   SMP activities include sampling of 4 monitoring wells (MW-06, MW-03, MW-5CL-02, + MW-13) for TCL VOCs 8260 + Fe, Mn; inspection of cap + building.

5. Compliance with permits and schedules included in the Operation and Maintenance Plan

   Yes, this sampling round is 1st round of bi-annual sampling + inspection for 2017.

6. Confirm that site records are up to date

   Yes

7. Conduct a visual inspection of the complete SSDS (i.e., vent fan, piping, warning device, labeling on systems, etc.).

   NA, building does not exist, new building doesn't have an SSDS system.

8. Conduct an inspection of all surfaces to which vacuum is applied.

NA

9. Inspect all components for condition and proper operation. Are both fans operational?

NA

10. Inspect the exhaust or discharge point to verify that no air intakes have been located nearby.

NA

11. Identify and repair any leaks in accordance with Sections 4.3.1(a) and 4.3.4(a) of the NYSDOH Guidance (i.e.; with the systems running, smoke tubes will used to check for leaks through concrete cracks, floor joints and at the suction points and any leaks will be resealed until smoke is no longer observed flowing through the opening).

NA

12. Interview an appropriate occupant seeking comments and observations regarding the operation of the System.

NA

Any Questions or Service needed to the SSDS call MITIGATION TECH at 1-800-637-9228

End of Inspection Form

Groundwater Sampling
Field Record

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Project Name Wilkins RV – SMP Sampling
Job # 50185-02
Location ID MW-13
Field Sample ID MW-13-110315
Sampling Event # _ _
Activity Time _____
Sample Time 11:30
Date 11/3/15

SAMPLING NOTES

Initial Depth to Water 3.25 feet
Measurement Point TOR
Well Diameter _____
Final Depth to Water 6.4 feet
Well Depth 16.61 feet
Well Integrity:
Screen Length _____ feet
Pump Intake Depth _____
Cap _____
Total Volume Purged _____ gallons
PID Well Head _____
Casing _____
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Locked _____
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth
Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1120	6.5		15.5	8.64	13.52	531	0.730	11	
1130	6.8		15.9	8.20	4.48	962	0.515	15	

Purge Observations: _____
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P, LaMotte 2020
Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	
Fe, Mn	1 x 250 ml	

LOCATION NOTES

Signature: _____
Checked By: _____

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV – SMP Sampling
Location ID MW-6 Field Sample ID MW-06-110315 Job # 50185-02
Activity Time _____ Sample Time _____ Sampling Event # __
Date 11/3/15

SAMPLING NOTES

Initial Depth to Water 3.65 feet Measurement Point TOR Well Diameter _____
Final Depth to Water _____ feet Well Depth 19.8 feet Well Integrity:
Screen Length _____ feet Pump Intake Depth _____ Cap _____
Total Volume Purged _____ gallons PID Well Head _____ Casing _____
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked _____
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
12	8.0		18.23	8.30	18.77	980	0.685	181	
1210	9.2		18.17	8.41	7.92	980	0.691	173	
1230	11		17.96	8.52	5.95	704	0.704	223	

Purge Observations: _____
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P, LaMotte 2020 Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	
Fe, Mn	1 x 250 ml	

LOCATION NOTES

Signature: _____
Checked By: _____

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV – SMP Sampling Job # 50185-02
Location ID MW-3CL-02 Field Sample ID MW-3CL-02-110315 Sampling Event # --
Activity Time _____ Sample Time 10:45 Date 11/3/15

SAMPLING NOTES

Initial Depth to Water 8.75 feet Measurement Point TOR Well Diameter _____
Final Depth to Water 34.95 feet Well Depth 35.75 feet Well Integrity:
Screen Length _____ feet Pump Intake Depth _____ Cap _____
Total Volume Purged _____ gallons PID Well Head _____ Casing _____
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked _____
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1015	26.0		15.3	8.72	5.13	825	0.774	162	
1030	31.5		14.18	8.66	2.88	0.8	0.803	115	
1045	34.8		13.87	8.58	3.15	730	0.641	99	

Purge Observations: _____
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P, LaMotte 2020 Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	
Fe, Mn	1 x 250 ml	

LOCATION NOTES

Signature: _____
Checked By: _____

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV – SMP Sampling
Job # 50185-02
Location ID MW-03
Field Sample ID MW-03-110315
Sampling Event # _ _
Activity Time _____
Sample Time 9:45
Date 11/3/15

SAMPLING NOTES

Initial Depth to Water 5.4 feet
Measurement Point TOR
Well Diameter _____
Final Depth to Water 11.35 feet
Well Depth ~~21.35~~ 71.1 feet
Well Integrity:
Screen Length _____ feet
Pump Intake Depth _____
Cap _____
Total Volume Purged _____ gallons
PID Well Head _____
Casing _____
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Locked _____
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth
Collar _____

PURGE DATA

21.03

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
920	9ft		14.8	9.04	~~0.875~~	0.0	0.875	150	
9:25	9.9		15.4	8.26	11.42	0.0	0.883	193	
9:30 ~~9:30~~	11.25		16.0	8.24	6.86	0.0	0.983	196	

Purge Observations: _____
Purge Water Containerized: _____

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing: _____
Type of Water Quality Meter: Myron 6P, LaMotte 2020
Calibrated: _____

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	
Fe, Mn	1 x 250 ml	

LOCATION NOTES

Signature: _____
Checked By: _____

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling
Location ID MW-JCL-02
Activity Time 09:48

Job # 50185-02
Field Sample ID MW-JCL-02-121416
Sample Time 1215
Sampling Event # __
Date 12/14/16

SAMPLING NOTES

Initial Depth to Water 3.54 feet
Final Depth to Water 31.00 feet
Screen Length 10 feet
Total Volume Purged ~9. gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

Measurement Point TOR
Well Depth 31.62 feet
Pump Intake Depth —
PID Well Head —

Well Diameter 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
0946	26.28		13.0	6.73	7.80	2892	3.27	166.8	1ST 5 GALLONS
1000	30.00		12.9	6.80	6.85	0	3.67	239.1	~8 GALLONS
1207	12.00		13.3	7.29	6.26	75	2.83	178.8	

Purge Observations: no odor, clear initially then turbid
Purge Water Containerized: yes - drummed on-site

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing: _____
Type of Water Quality Meter: YSI Quattro, LaMotte 2020
Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

ANTICIPATED VOL TO BE PURGED: 13.7 gallons
1 WELL VOL: 4.57 gal.

Signature: _____
Checked By: _____

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling
Location ID MW-03R (NEW well)
Activity Time 10:35

Job # 50185-02
Field Sample ID MW-03R-121416
Sample Time 1220
Sampling Event # __
Date 12/14/16

SAMPLING NOTES

Initial Depth to Water 1.9 feet
Final Depth to Water 19.15 feet
Screen Length 10 feet
Total Volume Purged ~4.5 gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

Measurement Point TOR
Well Depth 20.3 feet
Pump Intake Depth —
PID Well Head —

Well Diameter 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1044	19.15		11.4	7.11	4.95	0	2.35	31.5	1ST 5 GALLONS
1220	10.12		12.8	7.08	5.00	951 AV	3.50	166.0	

Purge Observations: No odor, turbid
Purge Water Containerized: yes - drummed on-site

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing:
Type of Water Quality Meter: YSI Quattro, LaMotte 2020
Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

ANTICIPATED PURGE VOL - 9 GAL.
1 well vol = 3 gal.

Signature:
Checked By:

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling
Location ID MW-13
Activity Time 11:00

Field Sample ID MW-13-121416
Sample Time 1225

Job # 50185-02
Sampling Event # __
Date 12/14/16

SAMPLING NOTES

Initial Depth to Water 2.69 feet
Final Depth to Water 8.5 feet
Screen Length 10 feet
Total Volume Purged ~ 4.2 gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

Measurement Point TOR
Well Depth 11.40 feet
Pump Intake Depth —
PID Well Head —

Well Diameter 2"
Well Integrity:
Cap ✓
Casing ✓
Locked ✓
Collar ✓

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1105	8.5	—	9.1	7.83	8.43	0	0.85	48.9	~4 gallons
1225	3.9	—	10.9	7.54	3.22	44	0.93	90.8	

Purge Observations: no odor, turbid
Purge Water Containerized: yes - drummed on-site

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing:
Type of Water Quality Meter: YSI Quattro, LaMotte 2020
Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

ANT. PURGE VOLUME = 4.25 GALLONS
1 WELL VOL = 1.42 gal.

Signature:
Checked By:

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling
Job # 50185-02
Location ID MW-06
Field Sample ID MW-06-121416
Sampling Event # __
Activity Time 11:15
Sample Time 1230
Date 12/14/16

SAMPLING NOTES

Initial Depth to Water 3.10 feet
Measurement Point TOR
Well Diameter 2"
Final Depth to Water 7.00 feet
Well Depth 17.75 feet
Well Integrity:
Screen Length 10 feet
Pump Intake Depth =
Cap ✓
Total Volume Purged ~4.5 gallons
PID Well Head
Casing ✓
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Locked ✓
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth
Collar ✓

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
1125	7.65	–	10.6	7.84	6.75	1880 AU	1.03	76.3	
1228	3.58	–	11.8	7.76	5.85	614	1.00	140.1	

Purge Observations: turbid, no odor
Purge Water Containerized: Yes - drummed on-site

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing:
Type of Water Quality Meter: YSI Quattro, LaMotte 2020
Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

ANTICIPATED VOL PURGE: ~7 GAL
1 WELL VOL = 2.39 gal.

Signature:
Checked By:

Groundwater Sampling Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling
Job # 50185-02
Location ID MW-SCL-02
Field Sample ID MW-SCL-02_051117
Sampling Event # __
Activity Time 09:30
Sample Time 10:05
Date 5/11/17

SAMPLING NOTES

Initial Depth to Water 1.15 feet
Measurement Point TOR
Well Diameter 2"
Final Depth to Water 29.12 feet
Well Depth 31.66 feet
Well Integrity:
Screen Length 10 feet
Pump Intake Depth
Cap ✓
Total Volume Purged ~11 gallons
PID Well Head
Casing ✓
Locked ✓
Collar ✓

[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
10:05	29.12		13.4	7.99	991	3551 All	2.51	115.6	

Purge Observations: started to go dry, slow to recharge, bail ~11 gallons, no odor + turbid
Purge Water Containerized: yes

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing:
Type of Water Quality Meter: YSI Quattro, LaMotte 2020
Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

Anticipated volume to bail: 11 gallons

Signature: Laura K Gregor
Checked By:

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling
Job # 50185-02
Location ID MW-03R
Field Sample ID MW-03R_051117
Sampling Event # __
Activity Time 08:25
Sample Time 09:10
Date 5/11/17

SAMPLING NOTES

Initial Depth to Water 1.3 feet
Measurement Point TOR
Well Diameter 2"
Final Depth to Water 19.0 feet
Well Depth 20.3 feet
Well Integrity:
Screen Length 10 feet
Pump Intake Depth
Cap ✓
Total Volume Purged ~9.2 gallons
PID Well Head
Casing ✓
Locked ✓
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Collar ✓
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
9:10	19.0	–	11.9	7.16	8.57	1167	5.73	-25.6	

Purge Observations: turbid, NO odor
Purge Water Containerized: yes

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing:
Type of Water Quality Meter: YSI Quattro, LaMotte 2020
Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

Signature: Laura K Gregor
Checked By:

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling Job # 50185-02
Location ID MW-06 Field Sample ID MW-06_051117 Sampling Event # __
Activity Time 11:00 Sample Time 11:20 Date 5/11/17

SAMPLING NOTES

Initial Depth to Water 2.1 feet Measurement Point TOR Well Diameter 2"
Final Depth to Water 8.0 feet Well Depth 17.6 feet Well Integrity:
Screen Length 10 feet Pump Intake Depth Cap ✓
Total Volume Purged 7.5 gallons PID Well Head Casing ✓
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked ✓
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar ✓

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
11:15	8.00	–	12.9	7.26	4.92	overrange	1.50	161.8	

Purge Observations: turbid, no odor
Purge Water Containerized: yes

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing:
Type of Water Quality Meter: YSI Quattro, LaMotte 2020 Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

Signature: Laura K Gregor
Checked By:

Groundwater Sampling
Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name Wilkins RV –Sampling Job # 50185-02
Location ID MW-13 Field Sample ID MW-13_051117 Sampling Event # __
Activity Time 10:20 Sample Time 10:45 Date 5/11/17

SAMPLING NOTES

Initial Depth to Water 1.7 feet Measurement Point TOR Well Diameter 2"
Final Depth to Water 5.5 feet Well Depth 11.35 feet Well Integrity:
Screen Length ____ feet Pump Intake Depth ____ Cap ✓
Total Volume Purged ~4.7 gallons PID Well Head ____ Casing ✓
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter] Locked ✓
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth Collar ✓

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
10:41	5.5	—	12.8	7.96	2.93	120	0.570	133.3	

Purge Observations: slightly turbid
Purge Water Containerized: yes

EQUIPMENT DOCUMENTATION

Type of Pump: NA – sample by bailer
Type of Tubing: ____
Type of Water Quality Meter: YSI Quattro, LaMotte 2020 Calibrated: by ECO Rental

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	2 x 40 ml	✓
Fe, Mn	1 x 250 ml	✓

LOCATION NOTES

Signature: Laura K Gregor
Checked By: ____

PARADIGM

ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Lu Engineers, Inc.

For Lab Project ID

154640

Referencing

Wilkins RV Bi-Annual Sampling

Prepared

Tuesday, November 17, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-03-110315
Lab Sample ID: 154640-01 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**17.7**	mg/L		11/9/2015 17:23
Manganese	**36.8**	mg/L		11/10/2015 11:35

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/6/2015
Data File: 110915b

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 200	ug/L		11/5/2015 16:26
1,1,2,2-Tetrachloroethane	< 200	ug/L		11/5/2015 16:26
1,1,2-Trichloroethane	< 200	ug/L		11/5/2015 16:26
1,1-Dichloroethane	< 200	ug/L		11/5/2015 16:26
1,1-Dichloroethene	< 200	ug/L		11/5/2015 16:26
1,2,3-Trichlorobenzene	< 500	ug/L		11/5/2015 16:26
1,2,4-Trichlorobenzene	< 500	ug/L		11/5/2015 16:26
1,2-Dibromo-3-Chloropropane	< 1000	ug/L		11/5/2015 16:26
1,2-Dibromoethane	< 200	ug/L		11/5/2015 16:26
1,2-Dichlorobenzene	< 200	ug/L		11/5/2015 16:26
1,2-Dichloroethane	< 200	ug/L		11/5/2015 16:26
1,2-Dichloropropane	< 200	ug/L		11/5/2015 16:26
1,3-Dichlorobenzene	< 200	ug/L		11/5/2015 16:26
1,4-Dichlorobenzene	< 200	ug/L		11/5/2015 16:26
1,4-dioxane	< 2000	ug/L		11/5/2015 16:26
2-Butanone	< 1000	ug/L		11/5/2015 16:26
2-Hexanone	< 500	ug/L		11/5/2015 16:26
4-Methyl-2-pentanone	< 500	ug/L		11/5/2015 16:26
Acetone	< 1000	ug/L		11/5/2015 16:26
Benzene	< 100	ug/L		11/5/2015 16:26
Bromochloromethane	< 500	ug/L		11/5/2015 16:26

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-03-110315
Lab Sample ID: 154640-01 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Bromodichloromethane	< 200	ug/L	11/5/2015	16:26
Bromoform	< 500	ug/L	11/5/2015	16:26
Bromomethane	< 200	ug/L	11/5/2015	16:26
Carbon disulfide	< 200	ug/L	11/5/2015	16:26
Carbon Tetrachloride	< 200	ug/L	11/5/2015	16:26
Chlorobenzene	< 200	ug/L	11/5/2015	16:26
Chloroethane	< 200	ug/L	11/5/2015	16:26
Chloroform	< 200	ug/L	11/5/2015	16:26
Chloromethane	< 200	ug/L	11/5/2015	16:26
cis-1,2-Dichloroethene	**3300**	ug/L	11/5/2015	16:26
cis-1,3-Dichloropropene	< 200	ug/L	11/5/2015	16:26
Cyclohexane	< 1000	ug/L	11/5/2015	16:26
Dibromochloromethane	< 200	ug/L	11/5/2015	16:26
Dichlorodifluoromethane	< 200	ug/L	11/5/2015	16:26
Ethylbenzene	< 200	ug/L	11/5/2015	16:26
Freon 113	< 200	ug/L	11/5/2015	16:26
Isopropylbenzene	< 200	ug/L	11/5/2015	16:26
m,p-Xylene	< 200	ug/L	11/5/2015	16:26
Methyl acetate	< 200	ug/L	11/5/2015	16:26
Methyl tert-butyl Ether	< 200	ug/L	11/5/2015	16:26
Methylcyclohexane	< 200	ug/L	11/5/2015	16:26
Methylene chloride	< 500	ug/L	11/5/2015	16:26
o-Xylene	< 200	ug/L	11/5/2015	16:26
Styrene	< 500	ug/L	11/5/2015	16:26
Tetrachloroethene	**2170**	ug/L	11/5/2015	16:26
Toluene	< 200	ug/L	11/5/2015	16:26
trans-1,2-Dichloroethene	< 200	ug/L	11/5/2015	16:26
trans-1,3-Dichloropropene	< 200	ug/L	11/5/2015	16:26
Trichloroethene	**2960**	ug/L	11/5/2015	16:26
Trichlorofluoromethane	< 200	ug/L	11/5/2015	16:26
Vinyl chloride	< 200	ug/L	11/5/2015	16:26

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-03-110315
Lab Sample ID: 154640-01 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**100**	81.1 - 124		11/5/2015	16:26
4-Bromofluorobenzene	**92.7**	79.8 - 114		11/5/2015	16:26
Pentafluorobenzene	**97.3**	91.1 - 111		11/5/2015	16:26
Toluene-D8	**96.9**	90.7 - 107		11/5/2015	16:26

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27377.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-JCL-02-110315
Lab Sample ID: 154640-02 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**38.0**	mg/L		11/9/2015 17:27
Manganese	**11.1**	mg/L		11/10/2015 11:39

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/6/2015
Data File: 110915b

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 100	ug/L		11/5/2015 16:49
1,1,2,2-Tetrachloroethane	< 100	ug/L		11/5/2015 16:49
1,1,2-Trichloroethane	< 100	ug/L		11/5/2015 16:49
1,1-Dichloroethane	< 100	ug/L		11/5/2015 16:49
1,1-Dichloroethene	< 100	ug/L		11/5/2015 16:49
1,2,3-Trichlorobenzene	< 250	ug/L		11/5/2015 16:49
1,2,4-Trichlorobenzene	< 250	ug/L		11/5/2015 16:49
1,2-Dibromo-3-Chloropropane	< 500	ug/L		11/5/2015 16:49
1,2-Dibromoethane	< 100	ug/L		11/5/2015 16:49
1,2-Dichlorobenzene	< 100	ug/L		11/5/2015 16:49
1,2-Dichloroethane	< 100	ug/L		11/5/2015 16:49
1,2-Dichloropropane	< 100	ug/L		11/5/2015 16:49
1,3-Dichlorobenzene	< 100	ug/L		11/5/2015 16:49
1,4-Dichlorobenzene	< 100	ug/L		11/5/2015 16:49
1,4-dioxane	< 1000	ug/L		11/5/2015 16:49
2-Butanone	< 500	ug/L		11/5/2015 16:49
2-Hexanone	< 250	ug/L		11/5/2015 16:49
4-Methyl-2-pentanone	< 250	ug/L		11/5/2015 16:49
Acetone	< 500	ug/L		11/5/2015 16:49
Benzene	< 50.0	ug/L		11/5/2015 16:49
Bromochloromethane	< 250	ug/L		11/5/2015 16:49

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-JCL-02-110315
Lab Sample ID: 154640-02 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Bromodichloromethane	< 100	ug/L	11/5/2015	16:49
Bromoform	< 250	ug/L	11/5/2015	16:49
Bromomethane	< 100	ug/L	11/5/2015	16:49
Carbon disulfide	< 100	ug/L	11/5/2015	16:49
Carbon Tetrachloride	< 100	ug/L	11/5/2015	16:49
Chlorobenzene	< 100	ug/L	11/5/2015	16:49
Chloroethane	< 100	ug/L	11/5/2015	16:49
Chloroform	< 100	ug/L	11/5/2015	16:49
Chloromethane	< 100	ug/L	11/5/2015	16:49
cis-1,2-Dichloroethene	**2510**	ug/L	11/5/2015	16:49
cis-1,3-Dichloropropene	< 100	ug/L	11/5/2015	16:49
Cyclohexane	< 500	ug/L	11/5/2015	16:49
Dibromochloromethane	< 100	ug/L	11/5/2015	16:49
Dichlorodifluoromethane	< 100	ug/L	11/5/2015	16:49
Ethylbenzene	< 100	ug/L	11/5/2015	16:49
Freon 113	< 100	ug/L	11/5/2015	16:49
Isopropylbenzene	< 100	ug/L	11/5/2015	16:49
m,p-Xylene	< 100	ug/L	11/5/2015	16:49
Methyl acetate	< 100	ug/L	11/5/2015	16:49
Methyl tert-butyl Ether	< 100	ug/L	11/5/2015	16:49
Methylcyclohexane	< 100	ug/L	11/5/2015	16:49
Methylene chloride	< 250	ug/L	11/5/2015	16:49
o-Xylene	< 100	ug/L	11/5/2015	16:49
Styrene	< 250	ug/L	11/5/2015	16:49
Tetrachloroethene	**1680**	ug/L	11/5/2015	16:49
Toluene	< 100	ug/L	11/5/2015	16:49
trans-1,2-Dichloroethene	< 100	ug/L	11/5/2015	16:49
trans-1,3-Dichloropropene	< 100	ug/L	11/5/2015	16:49
Trichloroethene	**2440**	ug/L	11/5/2015	16:49
Trichlorofluoromethane	< 100	ug/L	11/5/2015	16:49
Vinyl chloride	< 100	ug/L	11/5/2015	16:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-JCL-02-110315
Lab Sample ID: 154640-02 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**101**	81.1 - 124		11/5/2015 16:49
4-Bromofluorobenzene	**89.0**	79.8 - 114		11/5/2015 16:49
Pentafluorobenzene	**98.0**	91.1 - 111		11/5/2015 16:49
Toluene-D8	**96.2**	90.7 - 107		11/5/2015 16:49

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27378.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-13-110315
Lab Sample ID: 154640-03 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**11.4**	mg/L		11/9/2015 17:31
Manganese	**1.24**	mg/L		11/9/2015 17:31

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/6/2015
Data File: 110915b

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/5/2015 17:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/5/2015 17:13
1,1,2-Trichloroethane	< 2.00	ug/L		11/5/2015 17:13
1,1-Dichloroethane	< 2.00	ug/L		11/5/2015 17:13
1,1-Dichloroethene	< 2.00	ug/L		11/5/2015 17:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/5/2015 17:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/5/2015 17:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/5/2015 17:13
1,2-Dibromoethane	< 2.00	ug/L		11/5/2015 17:13
1,2-Dichlorobenzene	< 2.00	ug/L		11/5/2015 17:13
1,2-Dichloroethane	< 2.00	ug/L		11/5/2015 17:13
1,2-Dichloropropane	< 2.00	ug/L		11/5/2015 17:13
1,3-Dichlorobenzene	< 2.00	ug/L		11/5/2015 17:13
1,4-Dichlorobenzene	< 2.00	ug/L		11/5/2015 17:13
1,4-dioxane	< 20.0	ug/L		11/5/2015 17:13
2-Butanone	< 10.0	ug/L		11/5/2015 17:13
2-Hexanone	< 5.00	ug/L		11/5/2015 17:13
4-Methyl-2-pentanone	< 5.00	ug/L		11/5/2015 17:13
Acetone	< 10.0	ug/L		11/5/2015 17:13
Benzene	< 1.00	ug/L		11/5/2015 17:13
Bromochloromethane	< 5.00	ug/L		11/5/2015 17:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier:	MW-13-110315		
Lab Sample ID:	154640-03	**Date Sampled:**	11/3/2015
Matrix:	Groundwater	**Date Received:**	11/3/2015

Bromodichloromethane	< 2.00	ug/L	11/5/2015	17:13
Bromoform	< 5.00	ug/L	11/5/2015	17:13
Bromomethane	< 2.00	ug/L	11/5/2015	17:13
Carbon disulfide	< 2.00	ug/L	11/5/2015	17:13
Carbon Tetrachloride	< 2.00	ug/L	11/5/2015	17:13
Chlorobenzene	< 2.00	ug/L	11/5/2015	17:13
Chloroethane	< 2.00	ug/L	11/5/2015	17:13
Chloroform	< 2.00	ug/L	11/5/2015	17:13
Chloromethane	< 2.00	ug/L	11/5/2015	17:13
cis-1,2-Dichloroethene	< 2.00	ug/L	11/5/2015	17:13
cis-1,3-Dichloropropene	< 2.00	ug/L	11/5/2015	17:13
Cyclohexane	< 10.0	ug/L	11/5/2015	17:13
Dibromochloromethane	< 2.00	ug/L	11/5/2015	17:13
Dichlorodifluoromethane	< 2.00	ug/L	11/5/2015	17:13
Ethylbenzene	< 2.00	ug/L	11/5/2015	17:13
Freon 113	< 2.00	ug/L	11/5/2015	17:13
Isopropylbenzene	< 2.00	ug/L	11/5/2015	17:13
m,p-Xylene	< 2.00	ug/L	11/5/2015	17:13
Methyl acetate	< 2.00	ug/L	11/5/2015	17:13
Methyl tert-butyl Ether	< 2.00	ug/L	11/5/2015	17:13
Methylcyclohexane	< 2.00	ug/L	11/5/2015	17:13
Methylene chloride	< 5.00	ug/L	11/5/2015	17:13
o-Xylene	< 2.00	ug/L	11/5/2015	17:13
Styrene	< 5.00	ug/L	11/5/2015	17:13
Tetrachloroethene	< 2.00	ug/L	11/5/2015	17:13
Toluene	< 2.00	ug/L	11/5/2015	17:13
trans-1,2-Dichloroethene	< 2.00	ug/L	11/5/2015	17:13
trans-1,3-Dichloropropene	< 2.00	ug/L	11/5/2015	17:13
Trichloroethene	< 2.00	ug/L	11/5/2015	17:13
Trichlorofluoromethane	< 2.00	ug/L	11/5/2015	17:13
Vinyl chloride	< 2.00	ug/L	11/5/2015	17:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-13-110315
Lab Sample ID: 154640-03 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**101**	81.1 - 124		11/5/2015 17:13
4-Bromofluorobenzene	**89.9**	79.8 - 114		11/5/2015 17:13
Pentafluorobenzene	**95.8**	91.1 - 111		11/5/2015 17:13
Toluene-D8	**94.9**	90.7 - 107		11/5/2015 17:13

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27379.D

Report Prepared Tuesday, November 17, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-06-110315
Lab Sample ID: 154640-04 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**32.7**	mg/L		11/9/2015 17:44
Manganese	**14.9**	mg/L		11/10/2015 11:43

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/6/2015
Data File: 110915b

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/5/2015 17:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/5/2015 17:36
1,1,2-Trichloroethane	< 2.00	ug/L		11/5/2015 17:36
1,1-Dichloroethane	< 2.00	ug/L		11/5/2015 17:36
1,1-Dichloroethene	< 2.00	ug/L		11/5/2015 17:36
1,2,3-Trichlorobenzene	< 5.00	ug/L		11/5/2015 17:36
1,2,4-Trichlorobenzene	< 5.00	ug/L		11/5/2015 17:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		11/5/2015 17:36
1,2-Dibromoethane	< 2.00	ug/L		11/5/2015 17:36
1,2-Dichlorobenzene	< 2.00	ug/L		11/5/2015 17:36
1,2-Dichloroethane	< 2.00	ug/L		11/5/2015 17:36
1,2-Dichloropropane	< 2.00	ug/L		11/5/2015 17:36
1,3-Dichlorobenzene	< 2.00	ug/L		11/5/2015 17:36
1,4-Dichlorobenzene	< 2.00	ug/L		11/5/2015 17:36
1,4-dioxane	< 20.0	ug/L		11/5/2015 17:36
2-Butanone	< 10.0	ug/L		11/5/2015 17:36
2-Hexanone	< 5.00	ug/L		11/5/2015 17:36
4-Methyl-2-pentanone	< 5.00	ug/L		11/5/2015 17:36
Acetone	< 10.0	ug/L		11/5/2015 17:36
Benzene	< 1.00	ug/L		11/5/2015 17:36
Bromochloromethane	< 5.00	ug/L		11/5/2015 17:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-06-110315
Lab Sample ID: 154640-04 **Date Sampled:** 11/3/2015
Matrix: Groundwater **Date Received:** 11/3/2015

Bromodichloromethane	< 2.00	ug/L	11/5/2015	17:36
Bromoform	< 5.00	ug/L	11/5/2015	17:36
Bromomethane	< 2.00	ug/L	11/5/2015	17:36
Carbon disulfide	< 2.00	ug/L	11/5/2015	17:36
Carbon Tetrachloride	< 2.00	ug/L	11/5/2015	17:36
Chlorobenzene	< 2.00	ug/L	11/5/2015	17:36
Chloroethane	< 2.00	ug/L	11/5/2015	17:36
Chloroform	**2.91**	ug/L	11/5/2015	17:36
Chloromethane	< 2.00	ug/L	11/5/2015	17:36
cis-1,2-Dichloroethene	< 2.00	ug/L	11/5/2015	17:36
cis-1,3-Dichloropropene	< 2.00	ug/L	11/5/2015	17:36
Cyclohexane	< 10.0	ug/L	11/5/2015	17:36
Dibromochloromethane	< 2.00	ug/L	11/5/2015	17:36
Dichlorodifluoromethane	**11.3**	ug/L	11/5/2015	17:36
Ethylbenzene	< 2.00	ug/L	11/5/2015	17:36
Freon 113	< 2.00	ug/L	11/5/2015	17:36
Isopropylbenzene	< 2.00	ug/L	11/5/2015	17:36
m,p-Xylene	< 2.00	ug/L	11/5/2015	17:36
Methyl acetate	< 2.00	ug/L	11/5/2015	17:36
Methyl tert-butyl Ether	< 2.00	ug/L	11/5/2015	17:36
Methylcyclohexane	< 2.00	ug/L	11/5/2015	17:36
Methylene chloride	< 5.00	ug/L	11/5/2015	17:36
o-Xylene	< 2.00	ug/L	11/5/2015	17:36
Styrene	< 5.00	ug/L	11/5/2015	17:36
Tetrachloroethene	**12.1**	ug/L	11/5/2015	17:36
Toluene	< 2.00	ug/L	11/5/2015	17:36
trans-1,2-Dichloroethene	< 2.00	ug/L	11/5/2015	17:36
trans-1,3-Dichloropropene	< 2.00	ug/L	11/5/2015	17:36
Trichloroethene	**2.06**	ug/L	11/5/2015	17:36
Trichlorofluoromethane	< 2.00	ug/L	11/5/2015	17:36
Vinyl chloride	< 2.00	ug/L	11/5/2015	17:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154640

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Sample Identifier: MW-06-110315

Lab Sample ID: 154640-04 **Date Sampled:** 11/3/2015

Matrix: Groundwater **Date Received:** 11/3/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**102**	81.1 - 124		11/5/2015 17:36
4-Bromofluorobenzene	**90.4**	79.8 - 114		11/5/2015 17:36
Pentafluorobenzene	**94.0**	91.1 - 111		11/5/2015 17:36
Toluene-D8	**93.7**	90.7 - 107		11/5/2015 17:36

Method Reference(s): EPA 8260C
EPA 5030

Data File: x27380.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Lu Engineers, Inc.

Project Reference: Wilkins RV Bi-Annual Sampling

Lab Project ID: 154640

SDG #: 4640-01

Matrix: Groundwater

Metals

Analyte	Result	Units	Qualifier	Date Analyzed	
Iron	<0.100	mg/L		11/9/2015	17:10
Manganese	<0.0150	mg/L		11/9/2015	17:10

Method Reference(s): EPA 6010C
EPA 3005

Preparation Date: 11/6/2015

Data File: 110915b

QC Batch ID: QC151106water

QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: **Lu Engineers, Inc.**
Project Reference: Wilkins RV Bi-Annual Sampling
Lab Project ID: 154640
SDG #: 4640-01
Matrix: Groundwater

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Iron	2.50	2.50	mg/L	2.50	2.50	100	99.9	85 - 115			0.0620	20		11/9/2015
Manganese	1.00	1.00	mg/L	0.990	0.992	99.0	99.2	85 - 115			0.181	20		11/9/2015

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/6/2015
Data File: 110915b
QC Number: 1
QC Batch ID: QC151106water

Report Prepared Monday, November 16, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Sample Spike and Sample Duplicate

SDG #: 4640-01
Lab Project ID: 154640

Client: Lu Engineers, Inc.
Project Reference: Wilkins RV Bi-Annual Sampling

Lab Sample ID: 154640-04
Sample Identifier: MW-06-110315
Matrix: Groundwater

Date Sampled: 11/3/2015
Date Received: 11/3/2015

Metals

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Iron	**32.7**	mg/L	2.50	33.5	NC	75 - 125		32.2	1.64	20		11/9/2015
Manganese	**14.9**	mg/L	1.00	15.8	NC	75 - 125		14.6	1.56	20		11/10/2015

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/6/2015
110915b
QC Batch ID: QC151106water

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

Report Prepared Monday, November 16, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Lu Engineers, Inc.

Project Reference: Wilkins RV Bi-Annual Sampling

Lab Project ID: 154640

SDG #: 4640-01

Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	<2.00	ug/L		11/5/2015	12:31
1,1,2,2-Tetrachloroethane	<2.00	ug/L		11/5/2015	12:31
1,1,2-Trichloroethane	<2.00	ug/L		11/5/2015	12:31
1,1-Dichloroethane	<2.00	ug/L		11/5/2015	12:31
1,1-Dichloroethene	<2.00	ug/L		11/5/2015	12:31
1,2,3-Trichlorobenzene	<5.00	ug/L		11/5/2015	12:31
1,2,4-Trichlorobenzene	<5.00	ug/L		11/5/2015	12:31
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		11/5/2015	12:31
1,2-Dibromoethane	<2.00	ug/L		11/5/2015	12:31
1,2-Dichlorobenzene	<2.00	ug/L		11/5/2015	12:31
1,2-Dichloroethane	<2.00	ug/L		11/5/2015	12:31
1,2-Dichloropropane	<2.00	ug/L		11/5/2015	12:31
1,3-Dichlorobenzene	<2.00	ug/L		11/5/2015	12:31
1,4-Dichlorobenzene	<2.00	ug/L		11/5/2015	12:31
1,4-dioxane	<20.0	ug/L		11/5/2015	12:31
2-Butanone	<10.0	ug/L		11/5/2015	12:31
2-Hexanone	<5.00	ug/L		11/5/2015	12:31
4-Methyl-2-pentanone	<5.00	ug/L		11/5/2015	12:31
Acetone	<10.0	ug/L		11/5/2015	12:31
Benzene	<1.00	ug/L		11/5/2015	12:31
Bromochloromethane	<5.00	ug/L		11/5/2015	12:31
Bromodichloromethane	<2.00	ug/L		11/5/2015	12:31
Bromoform	<5.00	ug/L		11/5/2015	12:31
Bromomethane	<2.00	ug/L		11/5/2015	12:31
Carbon disulfide	<2.00	ug/L		11/5/2015	12:31
Carbon Tetrachloride	<2.00	ug/L		11/5/2015	12:31
Chlorobenzene	<2.00	ug/L		11/5/2015	12:31
Chloroethane	<2.00	ug/L		11/5/2015	12:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Lu Engineers, Inc.
Project Reference: Wilkins RV Bi-Annual Sampling
Lab Project ID: 154640
SDG #: 4640-01
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
Chloroform	<2.00	ug/L		11/5/2015	12:31
Chloromethane	<2.00	ug/L		11/5/2015	12:31
cis-1,2-Dichloroethene	<2.00	ug/L		11/5/2015	12:31
cis-1,3-Dichloropropene	<2.00	ug/L		11/5/2015	12:31
Cyclohexane	<10.0	ug/L		11/5/2015	12:31
Dibromochloromethane	<2.00	ug/L		11/5/2015	12:31
Dichlorodifluoromethane	<2.00	ug/L		11/5/2015	12:31
Ethylbenzene	<2.00	ug/L		11/5/2015	12:31
Freon 113	<2.00	ug/L		11/5/2015	12:31
Isopropylbenzene	<2.00	ug/L		11/5/2015	12:31
m,p-Xylene	<2.00	ug/L		11/5/2015	12:31
Methyl acetate	<2.00	ug/L		11/5/2015	12:31
Methyl tert-butyl Ether	<2.00	ug/L		11/5/2015	12:31
Methylcyclohexane	<2.00	ug/L		11/5/2015	12:31
Methylene chloride	<5.00	ug/L		11/5/2015	12:31
o-Xylene	<2.00	ug/L		11/5/2015	12:31
Styrene	<5.00	ug/L		11/5/2015	12:31
Tetrachloroethene	<2.00	ug/L		11/5/2015	12:31
Toluene	<2.00	ug/L		11/5/2015	12:31
trans-1,2-Dichloroethene	<2.00	ug/L		11/5/2015	12:31
trans-1,3-Dichloropropene	<2.00	ug/L		11/5/2015	12:31
Trichloroethene	<2.00	ug/L		11/5/2015	12:31
Trichlorofluoromethane	<2.00	ug/L		11/5/2015	12:31
Vinyl chloride	<2.00	ug/L		11/5/2015	12:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Lu Engineers, Inc.
Project Reference: Wilkins RV Bi-Annual Sampling
Lab Project ID: 154640
SDG #: 4640-01
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**97.0**	81.1 - 124		11/5/2015 12:31
4-Bromofluorobenzene	**93.6**	79.8 - 114		11/5/2015 12:31
Pentafluorobenzene	**97.8**	91.1 - 111		11/5/2015 12:31
Toluene-D8	**94.9**	90.7 - 107		11/5/2015 12:31

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27367.D
QC Batch ID: voaw110515
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: **Lu Engineers, Inc.**

Project Reference: Wilkins RV Bi-Annual Sampling

Lab Project ID: 154640

SDG #: 4640-01

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/L	19.2	95.9	79.3 - 121		11/5/2015
1,1,2,2-Tetrachloroethane	20.0	ug/L	19.1	95.3	78.9 - 127		11/5/2015
1,1,2-Trichloroethane	20.0	ug/L	19.3	96.3	79.2 - 118		11/5/2015
1,1-Dichloroethane	20.0	ug/L	19.5	97.4	82.9 - 117		11/5/2015
1,1-Dichloroethene	20.0	ug/L	19.2	95.9	78.8 - 122		11/5/2015
1,2-Dichlorobenzene	20.0	ug/L	20.4	102	84.6 - 123		11/5/2015
1,2-Dichloroethane	20.0	ug/L	19.7	98.3	78.1 - 124		11/5/2015
1,2-Dichloropropane	20.0	ug/L	19.5	97.6	84.1 - 115		11/5/2015
1,3-Dichlorobenzene	20.0	ug/L	19.8	98.9	78.6 - 120		11/5/2015
1,4-Dichlorobenzene	20.0	ug/L	18.9	94.3	78.9 - 117		11/5/2015
Benzene	20.0	ug/L	20.6	103	87.2 - 120		11/5/2015
Bromodichloromethane	20.0	ug/L	20.5	103	81.5 - 118		11/5/2015
Bromoform	20.0	ug/L	16.8	84.0	66.4 - 112		11/5/2015
Bromomethane	20.0	ug/L	19.1	95.3	51.4 - 160		11/5/2015
Carbon Tetrachloride	20.0	ug/L	19.7	98.3	73.7 - 126		11/5/2015
Chlorobenzene	20.0	ug/L	19.6	97.8	83.2 - 117		11/5/2015

Report Prepared Monday, November 16, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Lu Engineers, Inc.
Project Reference: Wilkins RV Bi-Annual Sampling
Lab Project ID: 154640
SDG #: 4640-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroethane	20.0	ug/L	19.7	98.3	79.1 - 128		11/5/2015
Chloroform	20.0	ug/L	20.9	104	84.3 - 119		11/5/2015
Chloromethane	20.0	ug/L	15.4	76.9	61.9 - 133		11/5/2015
cis-1,3-Dichloropropene	20.0	ug/L	22.9	114	92.8 - 132		11/5/2015
Dibromochloromethane	20.0	ug/L	19.9	99.3	75.5 - 118		11/5/2015
Ethylbenzene	20.0	ug/L	20.3	102	83.7 - 121		11/5/2015
Methylene chloride	20.0	ug/L	16.9	84.5	78.2 - 125		11/5/2015
Tetrachloroethene	20.0	ug/L	19.5	97.4	71.3 - 134		11/5/2015
Toluene	20.0	ug/L	20.0	99.8	84.8 - 118		11/5/2015
trans-1,2-Dichloroethene	20.0	ug/L	19.6	98.2	81.7 - 122		11/5/2015
trans-1,3-Dichloropropene	20.0	ug/L	20.9	105	79.9 - 124		11/5/2015
Trichloroethene	20.0	ug/L	19.5	97.5	84 - 120		11/5/2015
Trichlorofluoromethane	20.0	ug/L	17.0	85.1	70.8 - 128		11/5/2015
Vinyl chloride	20.0	ug/L	16.9	84.4	75 - 131		11/5/2015

Report Prepared Monday, November 16, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Lu Engineers, Inc.
Project Reference: Wilkins RV Bi-Annual Sampling
Lab Project ID: 154640
SDG #: 4640-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27366.D
QC Number: 1
QC Batch ID: voaw110515

Report Prepared Monday, November 16, 2015

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:			INVOICE TO:			LAB PROJECT ID
CLIENT: Lu Engineers			CLIENT:			154640
ADDRESS: 175 Sully's trail Suite 202			ADDRESS:			Quotation #:
CITY: Pittsford	STATE: NY	ZIP: 14534	CITY: Same	STATE:	ZIP:	
PHONE: 385-7417			PHONE:			Email:
ATTN: Casey Bok			ATTN:			

PROJECT REFERENCE
Wilkins Rd
Bi-Annual Sampling

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs 8260	TCL MNA								REMARKS	PARADIGM LAB SAMPLE NUMBER
1	11/3/15	9:30		X	MW-03-110315	WG	3	2	1								ASP CAT A	01
2		10:45		X	MW-Dup-02-110315		3	2	1									02
3		11:30		X	MW-13-110315		3	2	1									03
4		12:30		X	MW-06-110315		3	2	1									04
5																		
6																		
7																		
8																		
9																		
10																	Special 10/3/15 1501	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☒	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate:	☐

Sampled By	Date/Time 11/3/15	14:43
Relinquished By	Date/Time 11/3/15	14:43
Received By	Date/Time 11/3/15	1445
Received @ Lab By	Date/Time 11/3/15	15:17

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Lu Engineers **Completed by:** Glenn Pezzulo

Lab Project ID: 154640 **Date:** 11/3/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments			
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-JCL-02_121416		
Lab Sample ID:	165413-01	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**7.86**	mg/L		12/15/2016 11:57
Manganese	**1.74**	mg/L		12/15/2016 11:57

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 12/14/2016
Data File: 121516a

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-JCL-02_121416		
Lab Sample ID:	165413-01	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/15/2016 22:56
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/15/2016 22:56
1,1,2-Trichloroethane	< 2.00	ug/L		12/15/2016 22:56
1,1-Dichloroethane	< 2.00	ug/L		12/15/2016 22:56
1,1-Dichloroethene	< 2.00	ug/L		12/15/2016 22:56
1,2,3-Trichlorobenzene	< 5.00	ug/L		12/15/2016 22:56
1,2,4-Trichlorobenzene	< 5.00	ug/L		12/15/2016 22:56
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		12/15/2016 22:56
1,2-Dibromoethane	< 2.00	ug/L		12/15/2016 22:56
1,2-Dichlorobenzene	< 2.00	ug/L		12/15/2016 22:56
1,2-Dichloroethane	< 2.00	ug/L		12/15/2016 22:56
1,2-Dichloropropane	< 2.00	ug/L		12/15/2016 22:56
1,3-Dichlorobenzene	< 2.00	ug/L		12/15/2016 22:56
1,4-Dichlorobenzene	< 2.00	ug/L		12/15/2016 22:56
1,4-dioxane	< 20.0	ug/L		12/15/2016 22:56
2-Butanone	< 10.0	ug/L		12/15/2016 22:56
2-Hexanone	< 5.00	ug/L		12/15/2016 22:56
4-Methyl-2-pentanone	< 5.00	ug/L		12/15/2016 22:56
Acetone	**13.0**	ug/L		12/15/2016 22:56
Benzene	**0.738**	ug/L	J	12/15/2016 22:56
Bromochloromethane	< 5.00	ug/L		12/15/2016 22:56
Bromodichloromethane	< 2.00	ug/L		12/15/2016 22:56
Bromoform	< 5.00	ug/L		12/15/2016 22:56
Bromomethane	< 2.00	ug/L		12/15/2016 22:56
Carbon disulfide	< 2.00	ug/L		12/15/2016 22:56
Carbon Tetrachloride	< 2.00	ug/L		12/15/2016 22:56
Chlorobenzene	< 2.00	ug/L		12/15/2016 22:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-JCL-02_121416
Lab Sample ID: 165413-01 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Chloroethane	< 2.00	ug/L		12/15/2016	22:56
Chloroform	< 2.00	ug/L		12/15/2016	22:56
Chloromethane	**1.76**	ug/L	J	12/15/2016	22:56
cis-1,2-Dichloroethene	**121**	ug/L		12/15/2016	22:56
cis-1,3-Dichloropropene	< 2.00	ug/L		12/15/2016	22:56
Cyclohexane	< 10.0	ug/L		12/15/2016	22:56
Dibromochloromethane	< 2.00	ug/L		12/15/2016	22:56
Dichlorodifluoromethane	**2.91**	ug/L		12/15/2016	22:56
Ethylbenzene	< 2.00	ug/L		12/15/2016	22:56
Freon 113	< 2.00	ug/L		12/15/2016	22:56
Isopropylbenzene	< 2.00	ug/L		12/15/2016	22:56
m,p-Xylene	< 2.00	ug/L		12/15/2016	22:56
Methyl acetate	< 2.00	ug/L		12/15/2016	22:56
Methyl tert-butyl Ether	< 2.00	ug/L		12/15/2016	22:56
Methylcyclohexane	< 2.00	ug/L		12/15/2016	22:56
Methylene chloride	< 5.00	ug/L		12/15/2016	22:56
o-Xylene	< 2.00	ug/L		12/15/2016	22:56
Styrene	< 5.00	ug/L		12/15/2016	22:56
Tetrachloroethene	**102**	ug/L		12/15/2016	22:56
Toluene	< 2.00	ug/L		12/15/2016	22:56
trans-1,2-Dichloroethene	**3.45**	ug/L		12/15/2016	22:56
trans-1,3-Dichloropropene	< 2.00	ug/L		12/15/2016	22:56
Trichloroethene	**180**	ug/L		12/15/2016	22:56
Trichlorofluoromethane	< 2.00	ug/L		12/15/2016	22:56
Vinyl chloride	< 2.00	ug/L		12/15/2016	22:56

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-JCL-02_121416
Lab Sample ID: 165413-01 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**97.3**	85.8 - 116		12/15/2016 22:56
4-Bromofluorobenzene	**96.0**	80.6 - 114		12/15/2016 22:56
Pentafluorobenzene	**103**	89.6 - 112		12/15/2016 22:56
Toluene-D8	**98.9**	89.6 - 109		12/15/2016 22:56

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x37819.D

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-03R_121416		
Lab Sample ID:	165413-02	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**17.4**	mg/L		12/15/2016 12:01
Manganese	**0.913**	mg/L		12/15/2016 12:01

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 12/14/2016
Data File: 121516a

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-03R_121416		
Lab Sample ID:	165413-02	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/15/2016 23:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/15/2016 23:20
1,1,2-Trichloroethane	< 2.00	ug/L		12/15/2016 23:20
1,1-Dichloroethane	< 2.00	ug/L		12/15/2016 23:20
1,1-Dichloroethene	< 2.00	ug/L		12/15/2016 23:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		12/15/2016 23:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		12/15/2016 23:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		12/15/2016 23:20
1,2-Dibromoethane	< 2.00	ug/L		12/15/2016 23:20
1,2-Dichlorobenzene	< 2.00	ug/L		12/15/2016 23:20
1,2-Dichloroethane	< 2.00	ug/L		12/15/2016 23:20
1,2-Dichloropropane	< 2.00	ug/L		12/15/2016 23:20
1,3-Dichlorobenzene	< 2.00	ug/L		12/15/2016 23:20
1,4-Dichlorobenzene	< 2.00	ug/L		12/15/2016 23:20
1,4-dioxane	< 20.0	ug/L		12/15/2016 23:20
2-Butanone	< 10.0	ug/L		12/15/2016 23:20
2-Hexanone	< 5.00	ug/L		12/15/2016 23:20
4-Methyl-2-pentanone	< 5.00	ug/L		12/15/2016 23:20
Acetone	**14.9**	ug/L		12/15/2016 23:20
Benzene	**0.510**	ug/L	J	12/15/2016 23:20
Bromochloromethane	< 5.00	ug/L		12/15/2016 23:20
Bromodichloromethane	< 2.00	ug/L		12/15/2016 23:20
Bromoform	< 5.00	ug/L		12/15/2016 23:20
Bromomethane	< 2.00	ug/L		12/15/2016 23:20
Carbon disulfide	< 2.00	ug/L		12/15/2016 23:20
Carbon Tetrachloride	< 2.00	ug/L		12/15/2016 23:20
Chlorobenzene	< 2.00	ug/L		12/15/2016 23:20

Report Prepared Tuesday, December 20, 2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-03R_121416
Lab Sample ID: 165413-02 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Chloroethane	< 2.00	ug/L		12/15/2016	23:20
Chloroform	< 2.00	ug/L		12/15/2016	23:20
Chloromethane	< 2.00	ug/L		12/15/2016	23:20
cis-1,2-Dichloroethene	< 2.00	ug/L		12/15/2016	23:20
cis-1,3-Dichloropropene	< 2.00	ug/L		12/15/2016	23:20
Cyclohexane	< 10.0	ug/L		12/15/2016	23:20
Dibromochloromethane	< 2.00	ug/L		12/15/2016	23:20
Dichlorodifluoromethane	**1.49**	ug/L	J	12/15/2016	23:20
Ethylbenzene	< 2.00	ug/L		12/15/2016	23:20
Freon 113	< 2.00	ug/L		12/15/2016	23:20
Isopropylbenzene	< 2.00	ug/L		12/15/2016	23:20
m,p-Xylene	< 2.00	ug/L		12/15/2016	23:20
Methyl acetate	< 2.00	ug/L		12/15/2016	23:20
Methyl tert-butyl Ether	< 2.00	ug/L		12/15/2016	23:20
Methylcyclohexane	< 2.00	ug/L		12/15/2016	23:20
Methylene chloride	< 5.00	ug/L		12/15/2016	23:20
o-Xylene	< 2.00	ug/L		12/15/2016	23:20
Styrene	< 5.00	ug/L		12/15/2016	23:20
Tetrachloroethene	< 2.00	ug/L		12/15/2016	23:20
Toluene	< 2.00	ug/L		12/15/2016	23:20
trans-1,2-Dichloroethene	< 2.00	ug/L		12/15/2016	23:20
trans-1,3-Dichloropropene	< 2.00	ug/L		12/15/2016	23:20
Trichloroethene	< 2.00	ug/L		12/15/2016	23:20
Trichlorofluoromethane	< 2.00	ug/L		12/15/2016	23:20
Vinyl chloride	< 2.00	ug/L		12/15/2016	23:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-03R_121416
Lab Sample ID: 165413-02 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**99.3**	85.8 - 116		12/15/2016 23:20
4-Bromofluorobenzene	**96.9**	80.6 - 114		12/15/2016 23:20
Pentafluorobenzene	**99.7**	89.6 - 112		12/15/2016 23:20
Toluene-D8	**97.1**	89.6 - 109		12/15/2016 23:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x37820.D

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-13_121416		
Lab Sample ID:	165413-03	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**4.06**	mg/L		12/15/2016 12:14
Manganese	**0.777**	mg/L		12/15/2016 12:14

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 12/14/2016
Data File: 121516a

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-13_121416		
Lab Sample ID:	165413-03	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/15/2016 23:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/15/2016 23:44
1,1,2-Trichloroethane	< 2.00	ug/L		12/15/2016 23:44
1,1-Dichloroethane	< 2.00	ug/L		12/15/2016 23:44
1,1-Dichloroethene	< 2.00	ug/L		12/15/2016 23:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		12/15/2016 23:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		12/15/2016 23:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		12/15/2016 23:44
1,2-Dibromoethane	< 2.00	ug/L		12/15/2016 23:44
1,2-Dichlorobenzene	< 2.00	ug/L		12/15/2016 23:44
1,2-Dichloroethane	< 2.00	ug/L		12/15/2016 23:44
1,2-Dichloropropane	< 2.00	ug/L		12/15/2016 23:44
1,3-Dichlorobenzene	< 2.00	ug/L		12/15/2016 23:44
1,4-Dichlorobenzene	< 2.00	ug/L		12/15/2016 23:44
1,4-dioxane	< 20.0	ug/L		12/15/2016 23:44
2-Butanone	< 10.0	ug/L		12/15/2016 23:44
2-Hexanone	< 5.00	ug/L		12/15/2016 23:44
4-Methyl-2-pentanone	< 5.00	ug/L		12/15/2016 23:44
Acetone	< 10.0	ug/L		12/15/2016 23:44
Benzene	< 1.00	ug/L		12/15/2016 23:44
Bromochloromethane	< 5.00	ug/L		12/15/2016 23:44
Bromodichloromethane	< 2.00	ug/L		12/15/2016 23:44
Bromoform	< 5.00	ug/L		12/15/2016 23:44
Bromomethane	< 2.00	ug/L		12/15/2016 23:44
Carbon disulfide	< 2.00	ug/L		12/15/2016 23:44
Carbon Tetrachloride	< 2.00	ug/L		12/15/2016 23:44
Chlorobenzene	< 2.00	ug/L		12/15/2016 23:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-13_121416
Lab Sample ID: 165413-03 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Chloroethane	< 2.00	ug/L	12/15/2016	23:44
Chloroform	< 2.00	ug/L	12/15/2016	23:44
Chloromethane	< 2.00	ug/L	12/15/2016	23:44
cis-1,2-Dichloroethene	< 2.00	ug/L	12/15/2016	23:44
cis-1,3-Dichloropropene	< 2.00	ug/L	12/15/2016	23:44
Cyclohexane	< 10.0	ug/L	12/15/2016	23:44
Dibromochloromethane	< 2.00	ug/L	12/15/2016	23:44
Dichlorodifluoromethane	< 2.00	ug/L	12/15/2016	23:44
Ethylbenzene	< 2.00	ug/L	12/15/2016	23:44
Freon 113	< 2.00	ug/L	12/15/2016	23:44
Isopropylbenzene	< 2.00	ug/L	12/15/2016	23:44
m,p-Xylene	< 2.00	ug/L	12/15/2016	23:44
Methyl acetate	< 2.00	ug/L	12/15/2016	23:44
Methyl tert-butyl Ether	< 2.00	ug/L	12/15/2016	23:44
Methylcyclohexane	< 2.00	ug/L	12/15/2016	23:44
Methylene chloride	< 5.00	ug/L	12/15/2016	23:44
o-Xylene	< 2.00	ug/L	12/15/2016	23:44
Styrene	< 5.00	ug/L	12/15/2016	23:44
Tetrachloroethene	< 2.00	ug/L	12/15/2016	23:44
Toluene	< 2.00	ug/L	12/15/2016	23:44
trans-1,2-Dichloroethene	< 2.00	ug/L	12/15/2016	23:44
trans-1,3-Dichloropropene	< 2.00	ug/L	12/15/2016	23:44
Trichloroethene	< 2.00	ug/L	12/15/2016	23:44
Trichlorofluoromethane	< 2.00	ug/L	12/15/2016	23:44
Vinyl chloride	< 2.00	ug/L	12/15/2016	23:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-13_121416
Lab Sample ID: 165413-03 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.5**	85.8 - 116		12/15/2016 23:44
4-Bromofluorobenzene	**96.4**	80.6 - 114		12/15/2016 23:44
Pentafluorobenzene	**101**	89.6 - 112		12/15/2016 23:44
Toluene-D8	**97.2**	89.6 - 109		12/15/2016 23:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x37821.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-06_121416		
Lab Sample ID:	165413-04	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**6.99**	mg/L		12/15/2016 12:27
Manganese	**4.91**	mg/L		12/15/2016 12:27

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 12/14/2016
Data File: 121516a

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-06_121416		
Lab Sample ID:	165413-04	**Date Sampled:**	12/14/2016
Matrix:	Groundwater	**Date Received:**	12/14/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/16/2016 00:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/16/2016 00:07
1,1,2-Trichloroethane	< 2.00	ug/L		12/16/2016 00:07
1,1-Dichloroethane	< 2.00	ug/L		12/16/2016 00:07
1,1-Dichloroethene	< 2.00	ug/L		12/16/2016 00:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		12/16/2016 00:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		12/16/2016 00:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		12/16/2016 00:07
1,2-Dibromoethane	< 2.00	ug/L		12/16/2016 00:07
1,2-Dichlorobenzene	< 2.00	ug/L		12/16/2016 00:07
1,2-Dichloroethane	< 2.00	ug/L		12/16/2016 00:07
1,2-Dichloropropane	< 2.00	ug/L		12/16/2016 00:07
1,3-Dichlorobenzene	< 2.00	ug/L		12/16/2016 00:07
1,4-Dichlorobenzene	< 2.00	ug/L		12/16/2016 00:07
1,4-dioxane	< 20.0	ug/L		12/16/2016 00:07
2-Butanone	< 10.0	ug/L		12/16/2016 00:07
2-Hexanone	< 5.00	ug/L		12/16/2016 00:07
4-Methyl-2-pentanone	< 5.00	ug/L		12/16/2016 00:07
Acetone	< 10.0	ug/L		12/16/2016 00:07
Benzene	< 1.00	ug/L		12/16/2016 00:07
Bromochloromethane	< 5.00	ug/L		12/16/2016 00:07
Bromodichloromethane	< 2.00	ug/L		12/16/2016 00:07
Bromoform	< 5.00	ug/L		12/16/2016 00:07
Bromomethane	< 2.00	ug/L		12/16/2016 00:07
Carbon disulfide	< 2.00	ug/L		12/16/2016 00:07
Carbon Tetrachloride	< 2.00	ug/L		12/16/2016 00:07
Chlorobenzene	< 2.00	ug/L		12/16/2016 00:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-06_121416
Lab Sample ID: 165413-04 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Chloroethane	< 2.00	ug/L		12/16/2016	00:07
Chloroform	**1.59**	ug/L	J	12/16/2016	00:07
Chloromethane	< 2.00	ug/L		12/16/2016	00:07
cis-1,2-Dichloroethene	< 2.00	ug/L		12/16/2016	00:07
cis-1,3-Dichloropropene	< 2.00	ug/L		12/16/2016	00:07
Cyclohexane	< 10.0	ug/L		12/16/2016	00:07
Dibromochloromethane	< 2.00	ug/L		12/16/2016	00:07
Dichlorodifluoromethane	**6.80**	ug/L		12/16/2016	00:07
Ethylbenzene	< 2.00	ug/L		12/16/2016	00:07
Freon 113	< 2.00	ug/L		12/16/2016	00:07
Isopropylbenzene	< 2.00	ug/L		12/16/2016	00:07
m,p-Xylene	< 2.00	ug/L		12/16/2016	00:07
Methyl acetate	< 2.00	ug/L		12/16/2016	00:07
Methyl tert-butyl Ether	< 2.00	ug/L		12/16/2016	00:07
Methylcyclohexane	< 2.00	ug/L		12/16/2016	00:07
Methylene chloride	< 5.00	ug/L		12/16/2016	00:07
o-Xylene	< 2.00	ug/L		12/16/2016	00:07
Styrene	< 5.00	ug/L		12/16/2016	00:07
Tetrachloroethene	**14.5**	ug/L		12/16/2016	00:07
Toluene	< 2.00	ug/L		12/16/2016	00:07
trans-1,2-Dichloroethene	< 2.00	ug/L		12/16/2016	00:07
trans-1,3-Dichloropropene	< 2.00	ug/L		12/16/2016	00:07
Trichloroethene	**2.14**	ug/L		12/16/2016	00:07
Trichlorofluoromethane	< 2.00	ug/L		12/16/2016	00:07
Vinyl chloride	< 2.00	ug/L		12/16/2016	00:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 165413

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-06_121416
Lab Sample ID: 165413-04 **Date Sampled:** 12/14/2016
Matrix: Groundwater **Date Received:** 12/14/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**102**	85.8 - 116		12/16/2016 00:07
4-Bromofluorobenzene	**96.6**	80.6 - 114		12/16/2016 00:07
Pentafluorobenzene	**101**	89.6 - 112		12/16/2016 00:07
Toluene-D8	**97.8**	89.6 - 109		12/16/2016 00:07

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x37822.D

Report Prepared Tuesday, December 20, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM
ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT: LU ENGINEERS		CLIENT:		LAB PROJECT ID: 165413
ADDRESS: 339 EAST AVE STE 200		ADDRESS: SAME		
CITY: ROCHESTER STATE: NY ZIP: 14604		CITY: STATE: ZIP:		Quotation #:
PHONE: (585) 385-7417		PHONE:		Email: acherametaff@luengineers.com
ATTN: ARI CHEREMETEFF		ATTN:		

PROJECT REFERENCE: WRV-50185-02

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCLVOCs 8260	Fe, Mn								REMARKS	PARADIGM LAB SAMPLE NUMBER
12/14/16	1215		X	MW-JCL-02-121416	WG	3	2	1									01
	1220		X	MW-03R-121416		3	2	1									02
	1225		X	MW-13-121416		3	2	1									03
	1230		X	MW-06-121416		3	2	1									04
																ONICE 12/14/16	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Other		Other		Other EDD	
please indicate date needed:		please indicate package needed:		please indicate EDD needed :	

ARI CHEREMETEFF	12/14/16 1250	Total Cost:
Sampled By	Date/Time	
Laura K Fay	12/14/16 13:45	
Relinquished By	Date/Time	
Rebecca Rose	12/14/16 1345	P.I.F.
Received By	Date/Time	
	12/14/16 14:58	
Received @ Lab By	Date/Time	

3°C iced 12/14/16 14:13

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Custody Seal N/A, samples delivered by client.

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Lu Engineers **Completed by:** Glenn Pezzulo

Lab Project ID: 165413 **Date:** 12/14/16

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	3°C iced 12/14/16 14:13		
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-JCL-02_051117		
Lab Sample ID:	171992-01	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**47.5**	mg/L		5/16/2017 19:20
Manganese	**2.78**	mg/L		5/16/2017 19:20

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/15/2017
Data File: 170516B

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-JCL-02_051117		
Lab Sample ID:	171992-01	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/15/2017 22:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/15/2017 22:20
1,1,2-Trichloroethane	< 2.00	ug/L		5/15/2017 22:20
1,1-Dichloroethane	< 2.00	ug/L		5/15/2017 22:20
1,1-Dichloroethene	< 2.00	ug/L		5/15/2017 22:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/15/2017 22:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/15/2017 22:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/15/2017 22:20
1,2-Dibromoethane	< 2.00	ug/L		5/15/2017 22:20
1,2-Dichlorobenzene	< 2.00	ug/L		5/15/2017 22:20
1,2-Dichloroethane	< 2.00	ug/L		5/15/2017 22:20
1,2-Dichloropropane	< 2.00	ug/L		5/15/2017 22:20
1,3-Dichlorobenzene	< 2.00	ug/L		5/15/2017 22:20
1,4-Dichlorobenzene	< 2.00	ug/L		5/15/2017 22:20
1,4-dioxane	< 20.0	ug/L		5/15/2017 22:20
2-Butanone	< 10.0	ug/L		5/15/2017 22:20
2-Hexanone	< 5.00	ug/L		5/15/2017 22:20
4-Methyl-2-pentanone	< 5.00	ug/L		5/15/2017 22:20
Acetone	**21.1**	ug/L		5/15/2017 22:20
Benzene	< 1.00	ug/L		5/15/2017 22:20
Bromochloromethane	< 5.00	ug/L		5/15/2017 22:20
Bromodichloromethane	< 2.00	ug/L		5/15/2017 22:20
Bromoform	< 5.00	ug/L		5/15/2017 22:20
Bromomethane	< 2.00	ug/L		5/15/2017 22:20
Carbon disulfide	**1.14**	ug/L	J	5/15/2017 22:20
Carbon Tetrachloride	< 2.00	ug/L		5/15/2017 22:20
Chlorobenzene	< 2.00	ug/L		5/15/2017 22:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-JCL-02_051117
Lab Sample ID: 171992-01 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Chloroethane	< 2.00	ug/L		5/15/2017	22:20
Chloroform	< 2.00	ug/L		5/15/2017	22:20
Chloromethane	**1.51**	ug/L	J	5/15/2017	22:20
cis-1,2-Dichloroethene	**17.8**	ug/L		5/15/2017	22:20
cis-1,3-Dichloropropene	< 2.00	ug/L		5/15/2017	22:20
Cyclohexane	< 10.0	ug/L		5/15/2017	22:20
Dibromochloromethane	< 2.00	ug/L		5/15/2017	22:20
Dichlorodifluoromethane	< 2.00	ug/L		5/15/2017	22:20
Ethylbenzene	< 2.00	ug/L		5/15/2017	22:20
Freon 113	< 2.00	ug/L		5/15/2017	22:20
Isopropylbenzene	< 2.00	ug/L		5/15/2017	22:20
m,p-Xylene	< 2.00	ug/L		5/15/2017	22:20
Methyl acetate	< 2.00	ug/L		5/15/2017	22:20
Methyl tert-butyl Ether	< 2.00	ug/L		5/15/2017	22:20
Methylcyclohexane	< 2.00	ug/L		5/15/2017	22:20
Methylene chloride	< 5.00	ug/L		5/15/2017	22:20
o-Xylene	< 2.00	ug/L		5/15/2017	22:20
Styrene	< 5.00	ug/L		5/15/2017	22:20
Tetrachloroethene	**32.2**	ug/L		5/15/2017	22:20
Toluene	< 2.00	ug/L		5/15/2017	22:20
trans-1,2-Dichloroethene	**1.23**	ug/L	J	5/15/2017	22:20
trans-1,3-Dichloropropene	< 2.00	ug/L		5/15/2017	22:20
Trichloroethene	**28.8**	ug/L		5/15/2017	22:20
Trichlorofluoromethane	< 2.00	ug/L		5/15/2017	22:20
Vinyl chloride	< 2.00	ug/L		5/15/2017	22:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-JCL-02_051117
Lab Sample ID: 171992-01 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**120**	77.8 - 124		5/15/2017 22:20
4-Bromofluorobenzene	**83.2**	78 - 117		5/15/2017 22:20
Pentafluorobenzene	**87.5**	83.2 - 118		5/15/2017 22:20
Toluene-D8	**89.6**	83.7 - 116		5/15/2017 22:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x41396.D

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-03R_051117		
Lab Sample ID:	171992-02	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**35.6**	mg/L		5/16/2017 19:25
Manganese	**1.03**	mg/L		5/16/2017 19:25

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/15/2017
Data File: 170516B

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-03R_051117		
Lab Sample ID:	171992-02	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/15/2017 21:56
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/15/2017 21:56
1,1,2-Trichloroethane	< 2.00	ug/L		5/15/2017 21:56
1,1-Dichloroethane	< 2.00	ug/L		5/15/2017 21:56
1,1-Dichloroethene	< 2.00	ug/L		5/15/2017 21:56
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/15/2017 21:56
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/15/2017 21:56
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/15/2017 21:56
1,2-Dibromoethane	< 2.00	ug/L		5/15/2017 21:56
1,2-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:56
1,2-Dichloroethane	< 2.00	ug/L		5/15/2017 21:56
1,2-Dichloropropane	< 2.00	ug/L		5/15/2017 21:56
1,3-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:56
1,4-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:56
1,4-dioxane	< 20.0	ug/L		5/15/2017 21:56
2-Butanone	< 10.0	ug/L		5/15/2017 21:56
2-Hexanone	< 5.00	ug/L		5/15/2017 21:56
4-Methyl-2-pentanone	< 5.00	ug/L		5/15/2017 21:56
Acetone	**7.99**	ug/L	J	5/15/2017 21:56
Benzene	< 1.00	ug/L		5/15/2017 21:56
Bromochloromethane	< 5.00	ug/L		5/15/2017 21:56
Bromodichloromethane	< 2.00	ug/L		5/15/2017 21:56
Bromoform	< 5.00	ug/L		5/15/2017 21:56
Bromomethane	< 2.00	ug/L		5/15/2017 21:56
Carbon disulfide	< 2.00	ug/L		5/15/2017 21:56
Carbon Tetrachloride	< 2.00	ug/L		5/15/2017 21:56
Chlorobenzene	< 2.00	ug/L		5/15/2017 21:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-03R_051117
Lab Sample ID: 171992-02 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Chloroethane	< 2.00	ug/L	5/15/2017	21:56
Chloroform	< 2.00	ug/L	5/15/2017	21:56
Chloromethane	< 2.00	ug/L	5/15/2017	21:56
cis-1,2-Dichloroethene	< 2.00	ug/L	5/15/2017	21:56
cis-1,3-Dichloropropene	< 2.00	ug/L	5/15/2017	21:56
Cyclohexane	< 10.0	ug/L	5/15/2017	21:56
Dibromochloromethane	< 2.00	ug/L	5/15/2017	21:56
Dichlorodifluoromethane	< 2.00	ug/L	5/15/2017	21:56
Ethylbenzene	< 2.00	ug/L	5/15/2017	21:56
Freon 113	< 2.00	ug/L	5/15/2017	21:56
Isopropylbenzene	< 2.00	ug/L	5/15/2017	21:56
m,p-Xylene	< 2.00	ug/L	5/15/2017	21:56
Methyl acetate	< 2.00	ug/L	5/15/2017	21:56
Methyl tert-butyl Ether	< 2.00	ug/L	5/15/2017	21:56
Methylcyclohexane	< 2.00	ug/L	5/15/2017	21:56
Methylene chloride	< 5.00	ug/L	5/15/2017	21:56
o-Xylene	< 2.00	ug/L	5/15/2017	21:56
Styrene	< 5.00	ug/L	5/15/2017	21:56
Tetrachloroethene	< 2.00	ug/L	5/15/2017	21:56
Toluene	< 2.00	ug/L	5/15/2017	21:56
trans-1,2-Dichloroethene	< 2.00	ug/L	5/15/2017	21:56
trans-1,3-Dichloropropene	< 2.00	ug/L	5/15/2017	21:56
Trichloroethene	< 2.00	ug/L	5/15/2017	21:56
Trichlorofluoromethane	< 2.00	ug/L	5/15/2017	21:56
Vinyl chloride	< 2.00	ug/L	5/15/2017	21:56

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-03R_051117
Lab Sample ID: 171992-02 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**120**	77.8 - 124		5/15/2017 21:56
4-Bromofluorobenzene	**83.2**	78 - 117		5/15/2017 21:56
Pentafluorobenzene	**86.1**	83.2 - 118		5/15/2017 21:56
Toluene-D8	**89.8**	83.7 - 116		5/15/2017 21:56

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x41395.D

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-13_051117		
Lab Sample ID:	171992-03	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**5.63**	mg/L		5/16/2017 19:29
Manganese	**0.327**	mg/L		5/16/2017 19:29

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/15/2017
Data File: 170516B

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-13_051117		
Lab Sample ID:	171992-03	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/15/2017 21:33
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/15/2017 21:33
1,1,2-Trichloroethane	< 2.00	ug/L		5/15/2017 21:33
1,1-Dichloroethane	< 2.00	ug/L		5/15/2017 21:33
1,1-Dichloroethene	< 2.00	ug/L		5/15/2017 21:33
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/15/2017 21:33
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/15/2017 21:33
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/15/2017 21:33
1,2-Dibromoethane	< 2.00	ug/L		5/15/2017 21:33
1,2-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:33
1,2-Dichloroethane	< 2.00	ug/L		5/15/2017 21:33
1,2-Dichloropropane	< 2.00	ug/L		5/15/2017 21:33
1,3-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:33
1,4-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:33
1,4-dioxane	< 20.0	ug/L		5/15/2017 21:33
2-Butanone	< 10.0	ug/L		5/15/2017 21:33
2-Hexanone	< 5.00	ug/L		5/15/2017 21:33
4-Methyl-2-pentanone	< 5.00	ug/L		5/15/2017 21:33
Acetone	< 10.0	ug/L		5/15/2017 21:33
Benzene	< 1.00	ug/L		5/15/2017 21:33
Bromochloromethane	< 5.00	ug/L		5/15/2017 21:33
Bromodichloromethane	< 2.00	ug/L		5/15/2017 21:33
Bromoform	< 5.00	ug/L		5/15/2017 21:33
Bromomethane	< 2.00	ug/L		5/15/2017 21:33
Carbon disulfide	< 2.00	ug/L		5/15/2017 21:33
Carbon Tetrachloride	< 2.00	ug/L		5/15/2017 21:33
Chlorobenzene	< 2.00	ug/L		5/15/2017 21:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-13_051117
Lab Sample ID: 171992-03 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Chloroethane	< 2.00	ug/L	5/15/2017	21:33
Chloroform	< 2.00	ug/L	5/15/2017	21:33
Chloromethane	< 2.00	ug/L	5/15/2017	21:33
cis-1,2-Dichloroethene	< 2.00	ug/L	5/15/2017	21:33
cis-1,3-Dichloropropene	< 2.00	ug/L	5/15/2017	21:33
Cyclohexane	< 10.0	ug/L	5/15/2017	21:33
Dibromochloromethane	< 2.00	ug/L	5/15/2017	21:33
Dichlorodifluoromethane	< 2.00	ug/L	5/15/2017	21:33
Ethylbenzene	< 2.00	ug/L	5/15/2017	21:33
Freon 113	< 2.00	ug/L	5/15/2017	21:33
Isopropylbenzene	< 2.00	ug/L	5/15/2017	21:33
m,p-Xylene	< 2.00	ug/L	5/15/2017	21:33
Methyl acetate	< 2.00	ug/L	5/15/2017	21:33
Methyl tert-butyl Ether	< 2.00	ug/L	5/15/2017	21:33
Methylcyclohexane	< 2.00	ug/L	5/15/2017	21:33
Methylene chloride	< 5.00	ug/L	5/15/2017	21:33
o-Xylene	< 2.00	ug/L	5/15/2017	21:33
Styrene	< 5.00	ug/L	5/15/2017	21:33
Tetrachloroethene	< 2.00	ug/L	5/15/2017	21:33
Toluene	< 2.00	ug/L	5/15/2017	21:33
trans-1,2-Dichloroethene	< 2.00	ug/L	5/15/2017	21:33
trans-1,3-Dichloropropene	< 2.00	ug/L	5/15/2017	21:33
Trichloroethene	< 2.00	ug/L	5/15/2017	21:33
Trichlorofluoromethane	< 2.00	ug/L	5/15/2017	21:33
Vinyl chloride	< 2.00	ug/L	5/15/2017	21:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-13_051117
Lab Sample ID: 171992-03 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**121**	77.8 - 124		5/15/2017 21:33
4-Bromofluorobenzene	**80.5**	78 - 117		5/15/2017 21:33
Pentafluorobenzene	**86.9**	83.2 - 118		5/15/2017 21:33
Toluene-D8	**90.2**	83.7 - 116		5/15/2017 21:33

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x41394.D

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-06_051117		
Lab Sample ID:	171992-04	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Iron	**47.2**	mg/L		5/16/2017 19:33
Manganese	**20.7**	mg/L		5/17/2017 09:57

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/15/2017
Data File: 170516B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-06_051117		
Lab Sample ID:	171992-04	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/15/2017 21:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/15/2017 21:09
1,1,2-Trichloroethane	< 2.00	ug/L		5/15/2017 21:09
1,1-Dichloroethane	< 2.00	ug/L		5/15/2017 21:09
1,1-Dichloroethene	< 2.00	ug/L		5/15/2017 21:09
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/15/2017 21:09
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/15/2017 21:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/15/2017 21:09
1,2-Dibromoethane	< 2.00	ug/L		5/15/2017 21:09
1,2-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:09
1,2-Dichloroethane	< 2.00	ug/L		5/15/2017 21:09
1,2-Dichloropropane	< 2.00	ug/L		5/15/2017 21:09
1,3-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:09
1,4-Dichlorobenzene	< 2.00	ug/L		5/15/2017 21:09
1,4-dioxane	< 20.0	ug/L		5/15/2017 21:09
2-Butanone	< 10.0	ug/L		5/15/2017 21:09
2-Hexanone	< 5.00	ug/L		5/15/2017 21:09
4-Methyl-2-pentanone	< 5.00	ug/L		5/15/2017 21:09
Acetone	< 10.0	ug/L		5/15/2017 21:09
Benzene	< 1.00	ug/L		5/15/2017 21:09
Bromochloromethane	< 5.00	ug/L		5/15/2017 21:09
Bromodichloromethane	< 2.00	ug/L		5/15/2017 21:09
Bromoform	< 5.00	ug/L		5/15/2017 21:09
Bromomethane	< 2.00	ug/L		5/15/2017 21:09
Carbon disulfide	< 2.00	ug/L		5/15/2017 21:09
Carbon Tetrachloride	< 2.00	ug/L		5/15/2017 21:09
Chlorobenzene	< 2.00	ug/L		5/15/2017 21:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier:	MW-06_051117		
Lab Sample ID:	171992-04	**Date Sampled:**	5/11/2017
Matrix:	Groundwater	**Date Received:**	5/11/2017

Chloroethane	< 2.00	ug/L		5/15/2017	21:09
Chloroform	< 2.00	ug/L		5/15/2017	21:09
Chloromethane	< 2.00	ug/L		5/15/2017	21:09
cis-1,2-Dichloroethene	< 2.00	ug/L		5/15/2017	21:09
cis-1,3-Dichloropropene	< 2.00	ug/L		5/15/2017	21:09
Cyclohexane	< 10.0	ug/L		5/15/2017	21:09
Dibromochloromethane	< 2.00	ug/L		5/15/2017	21:09
Dichlorodifluoromethane	**10.1**	ug/L		5/15/2017	21:09
Ethylbenzene	< 2.00	ug/L		5/15/2017	21:09
Freon 113	< 2.00	ug/L		5/15/2017	21:09
Isopropylbenzene	< 2.00	ug/L		5/15/2017	21:09
m,p-Xylene	< 2.00	ug/L		5/15/2017	21:09
Methyl acetate	< 2.00	ug/L		5/15/2017	21:09
Methyl tert-butyl Ether	< 2.00	ug/L		5/15/2017	21:09
Methylcyclohexane	< 2.00	ug/L		5/15/2017	21:09
Methylene chloride	< 5.00	ug/L		5/15/2017	21:09
o-Xylene	< 2.00	ug/L		5/15/2017	21:09
Styrene	< 5.00	ug/L		5/15/2017	21:09
Tetrachloroethene	**18.6**	ug/L		5/15/2017	21:09
Toluene	< 2.00	ug/L		5/15/2017	21:09
trans-1,2-Dichloroethene	< 2.00	ug/L		5/15/2017	21:09
trans-1,3-Dichloropropene	< 2.00	ug/L		5/15/2017	21:09
Trichloroethene	**1.88**	ug/L	J	5/15/2017	21:09
Trichlorofluoromethane	< 2.00	ug/L		5/15/2017	21:09
Vinyl chloride	< 2.00	ug/L		5/15/2017	21:09

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: MW-06_051117
Lab Sample ID: 171992-04 **Date Sampled:** 5/11/2017
Matrix: Groundwater **Date Received:** 5/11/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**120**	77.8 - 124		5/15/2017 21:09
4-Bromofluorobenzene	**82.5**	78 - 117		5/15/2017 21:09
Pentafluorobenzene	**86.6**	83.2 - 118		5/15/2017 21:09
Toluene-D8	**89.8**	83.7 - 116		5/15/2017 21:09

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x41393.D

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: Trip Blank
Lab Sample ID: 171992-05 **Date Sampled:** 5/11/2017
Matrix: Water **Date Received:** 5/11/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/15/2017 20:46
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/15/2017 20:46
1,1,2-Trichloroethane	< 2.00	ug/L		5/15/2017 20:46
1,1-Dichloroethane	< 2.00	ug/L		5/15/2017 20:46
1,1-Dichloroethene	< 2.00	ug/L		5/15/2017 20:46
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/15/2017 20:46
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/15/2017 20:46
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/15/2017 20:46
1,2-Dibromoethane	< 2.00	ug/L		5/15/2017 20:46
1,2-Dichlorobenzene	< 2.00	ug/L		5/15/2017 20:46
1,2-Dichloroethane	< 2.00	ug/L		5/15/2017 20:46
1,2-Dichloropropane	< 2.00	ug/L		5/15/2017 20:46
1,3-Dichlorobenzene	< 2.00	ug/L		5/15/2017 20:46
1,4-Dichlorobenzene	< 2.00	ug/L		5/15/2017 20:46
1,4-dioxane	< 20.0	ug/L		5/15/2017 20:46
2-Butanone	< 10.0	ug/L		5/15/2017 20:46
2-Hexanone	< 5.00	ug/L		5/15/2017 20:46
4-Methyl-2-pentanone	< 5.00	ug/L		5/15/2017 20:46
Acetone	< 10.0	ug/L		5/15/2017 20:46
Benzene	< 1.00	ug/L		5/15/2017 20:46
Bromochloromethane	< 5.00	ug/L		5/15/2017 20:46
Bromodichloromethane	< 2.00	ug/L		5/15/2017 20:46
Bromoform	< 5.00	ug/L		5/15/2017 20:46
Bromomethane	< 2.00	ug/L		5/15/2017 20:46
Carbon disulfide	< 2.00	ug/L		5/15/2017 20:46
Carbon Tetrachloride	< 2.00	ug/L		5/15/2017 20:46
Chlorobenzene	< 2.00	ug/L		5/15/2017 20:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: Trip Blank
Lab Sample ID: 171992-05 **Date Sampled:** 5/11/2017
Matrix: Water **Date Received:** 5/11/2017

Chloroethane	< 2.00	ug/L	5/15/2017	20:46
Chloroform	< 2.00	ug/L	5/15/2017	20:46
Chloromethane	< 2.00	ug/L	5/15/2017	20:46
cis-1,2-Dichloroethene	< 2.00	ug/L	5/15/2017	20:46
cis-1,3-Dichloropropene	< 2.00	ug/L	5/15/2017	20:46
Cyclohexane	< 10.0	ug/L	5/15/2017	20:46
Dibromochloromethane	< 2.00	ug/L	5/15/2017	20:46
Dichlorodifluoromethane	< 2.00	ug/L	5/15/2017	20:46
Ethylbenzene	< 2.00	ug/L	5/15/2017	20:46
Freon 113	< 2.00	ug/L	5/15/2017	20:46
Isopropylbenzene	< 2.00	ug/L	5/15/2017	20:46
m,p-Xylene	< 2.00	ug/L	5/15/2017	20:46
Methyl acetate	< 2.00	ug/L	5/15/2017	20:46
Methyl tert-butyl Ether	< 2.00	ug/L	5/15/2017	20:46
Methylcyclohexane	< 2.00	ug/L	5/15/2017	20:46
Methylene chloride	< 5.00	ug/L	5/15/2017	20:46
o-Xylene	< 2.00	ug/L	5/15/2017	20:46
Styrene	< 5.00	ug/L	5/15/2017	20:46
Tetrachloroethene	< 2.00	ug/L	5/15/2017	20:46
Toluene	< 2.00	ug/L	5/15/2017	20:46
trans-1,2-Dichloroethene	< 2.00	ug/L	5/15/2017	20:46
trans-1,3-Dichloropropene	< 2.00	ug/L	5/15/2017	20:46
Trichloroethene	< 2.00	ug/L	5/15/2017	20:46
Trichlorofluoromethane	< 2.00	ug/L	5/15/2017	20:46
Vinyl chloride	< 2.00	ug/L	5/15/2017	20:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 171992

Client: **Lu Engineers, Inc.**

Project Reference: WRV-50185-02

Sample Identifier: Trip Blank
Lab Sample ID: 171992-05 **Date Sampled:** 5/11/2017
Matrix: Water **Date Received:** 5/11/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**121**	77.8 - 124		5/15/2017 20:46
4-Bromofluorobenzene	**84.7**	78 - 117		5/15/2017 20:46
Pentafluorobenzene	**86.7**	83.2 - 118		5/15/2017 20:46
Toluene-D8	**90.7**	83.7 - 116		5/15/2017 20:46

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x41392.D

Report Prepared Wednesday, May 17, 2017

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 2

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:		
CLIENT:	Lu Engineers	CLIENT:		LAB PROJECT ID: 171992
ADDRESS:	339 East Avenue, Suite 200	ADDRESS:	SAME	
CITY:	Rochester STATE: NY ZIP: 14604	CITY:	STATE: ZIP:	Quotation #:
PHONE:	585-385-7417 x 253	PHONE:		Email: acheremeteff@luengineers.com
ATTN:	Ari Cheremeteff	ATTN:		

PROJECT REFERENCE: WRV-50185-02

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs 8260	Fe, Mn	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/11/17	~~9:25~~ 10:05		✓	MW-JCL-02_051117	WG	3	2	1		01
	9:10		✓	MW-03R_051117	WG	3	2	1		02
	10:45		✓	MW-13_051117	WG	3	2	1		03
↓	11:20		✓	MW-06_051117	WG	3	2	1		04
				Trip Blank	WA	1	1			05
				per sample label	per	TB method				
				@ 5/11/17	@	5/11/17				

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required		None Required	
10 day		Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	X
Rush 2 day		Category B	X		
Rush 1 day					
Other please indicate date needed:		Other please indicate package needed:		Other EDD please indicate EDD needed:	

Laura K Treyger 05/11/17 11:25
Sampled By Date/Time

Laura K Treyger 05/11/17 12:30
Relinquished By Date/Time

5/11/17 12:30
Received By Date/Time

JR 5/11/17 14:12
Received @ Lab By Date/Time

Total Cost:

P.I.F.

7°C iced stat. in field 5/11/17 12:57

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Custody Seal N/A, samples delivered by client, @ 5/11/17

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Lu Engineers **Completed by:** Glenn Pezzulo

Lab Project ID: 171992 **Date:** 5/11/17

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	7 °C iced started in field 5/11/17 12:57		
Sufficient Sample Quantity	X		
Comments			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

4/19/2017

Brian Wilkins
BLW Properties of Churchville, LLC
7520 State Rte 415
Bath, NY 14810

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Churchville Ford, Inc.
Site No.: V00658
Site Address: 111 South Main Street
Churchville, NY 14428

Dear Brian Wilkins:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **July 01, 2017**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
http://www.dec.ny.gov/regulations/2586.html

The signed certification forms should be sent to Danielle Miles, Project Manager, at the following address:

New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, NY 14414

Phone number: 585-226-5349. E-mail: danielle.miles@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

Antonio Gabrielle
Joseph Ognibene

ec: w/ enclosures
Danielle Miles, Project Manager
Bernette Schilling, Hazardous Waste Remediation Engineer, Region 8

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **V00658**

Site Name Churchville Ford, Inc.

Site Address: 111 South Main Street Zip Code: 14428
City/Town: Churchville
County: Monroe
Site Acreage: 6.0

Reporting Period: July 07, 2015 to June 01, 2017

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☒	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Susan Hilton
Signature of Owner, Remedial Party or Designated Representative

6/30/2017
Date

SITE NO. V00658 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
143.17-1-50	BLW Properties of Churchville, LLC.	Ground Water Use Restriction Landuse Restriction Site Management Plan

1. Site use is limited to Commercial and industrial uses.
2. Groundwater use is prohibited.
3. Compliance with a Site Management Plan is required.
4. Periodic certifications are required.
5. The Site and associated institutional controls apply to a 6-acre portion of a 16-acre parcel.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
143.17-1-50	Vapor Mitigation Cover System

1. Cover system consisting primarily of asphalt pavement and the building slab.
2. Sub-slab depressurization system.
3. The Site and associated engineering controls apply to a 6-acre portion of a 16-acre parcel.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Susan Hilton
Signature of Owner, Remedial Party or Designated Representative

6/30/2017
Date

IC CERTIFICATIONS
SITE NO. V00658

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I SUSAN HILTON (print name) at 339 EAST AVENUE, ROCHESTER, NY, (print business address)

am certifying as DESIGNATED REPRESENTATIVE (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Susan Hilton
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

6/30/2017
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I SUSAN HILTON (print name) at 339 EAST AVENUE, ROCHESTER, NY. (print business address)

am certifying as a Professional Engineer for the OWNER (~~Owner~~ or Remedial Party)

Susan Hilton

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

6/30/2017

Date

Village of Churchville Building Department

23 East Buffalo Street
Churchville, NY 14428
(585)293-3720

BUILDING PERMIT

(Please Post in a Conspicuous Place)

Issued : *10/29/15* ***Permit # :*** *15-057*

Expires : *10/29/16* ***Fee :*** *.NULL.*

Project Description: CONSTRUCT A NEW COMMERCIAL FACILITY FOR SALES AND REPAIRS FOR WILKINS RV DEALERSHIP

Location: 111 S Main St

Property Information:

Tax Map#: 143.17-1-50
Class: 431

Front: 0.00 **Lot:**
Depth: 0.00 **Subdivision:**
Acres: 6.02 **Zone:**

Owner:
BLW Properties of
7520 State Route 415
Bath, NY

Applicant : BLW Properties of Churchville
7520 State Route 415
Bath, NY 14810

Contractor : Chrisanntha Construction
Constr. Type:
Est. Project Cost : $5,000,000.00

Occupancy : B
Material : COMB/NON
Square Feet : 41,800

Permission is hereby granted to proceed with the work as set forth in the plans, specifications or statements now on file in the Code Enforcement Office. Any changes made to the original plans must first be submitted for approval.

The applicant shall notify Village of Churchville Code Enforcement Officer for the following inspections:

Frame & Roofing
Rough Plumbing
Rough Electric
Insullation - Walls
Insulation - Roof
Final Inside Sewer Hookup Insp
Final Plumbing Inspection
Final Electrical Inspection
Fire Inspection/Fire Marshall
Sewer Hookup Insp (Property Tr
Final Inspection

It is the responsibility of the owner and/or contractor to comply will all applicable Town ordinances. All inspections require a 24-hour minimum advance notice.

10/29/15
Date

Douglas Scarson
Douglas Scarson, BI/CEO/Fire Marshal

Village of Churchville Building Department

23 East Buffalo Street
Churchville, NY 14428
(585)293-3720

PAID
SEP 21 2015
VILLAGE OF CHURCHVILLE

BUILDING PERMIT

(Please Post in a Conspicuous Place)

Issued : *09/24/15*
Expires : *09/24/16*

Permit # : *15-040*
Fee : *$8,360.00*

Project Description: FOUNDATION PERMIT ONLY FOR NEW BUILDING

Location: 111 S Main St

Property Information:

Tax Map#: 143.17-1-50
Class: 431

Front: 0.00 **Lot:**
Depth: 0.00 **Subdivision:**
Acres: 6.02 **Zone:**

Owner:
BLW Properties of
7520 State Route 415
Bath, NY

Applicant : BLW Properties of Churchville
7520 State Route 415
Bath, NY 14810

Contractor : Chrisanntha Construction
Constr. Type: II
Est. Project Cost : $5,000,000.00

Occupancy : B
Material :
Square Feet : 41,800

Permission is hereby granted to proceed with the work as set forth in the plans, specifications or statements now on file in the Code Enforcement Office. Any changes made to the original plans must first be submitted for approval.

The applicant shall notify Village of Churchville Code Enforcement Officer for the following inspections:
Foundation - Footers

It is the responsibility of the owner and/or contractor to comply will all applicable Town ordinances. All inspections require a 24-hour minimum advance notice.

09/24/15
Date

Douglas Scarson, BI/CEO/Fire Marshal

Village of Churchville Building Department

23 East Buffalo Street
Churchville, NY 14428
(585)293-3720

Receipt # 57254

PAID

APR 19 2016

VILLAGE OF CHURCHVILLE

BUILDING PERMIT

(Please Post in a Conspicuous Place)

Issued : *04/12/16*
Expires : *04/12/17*

Permit # : *16-0010*
Fee : *$100.00*

Project Description: Demolition of single story building

Location: 111 S Main St

Property Information:

Tax Map#: 143.17-1-50
Class: 431

Front: 0.00 **Lot:**
Depth: 0.00 **Subdivision:**
Acres: 6.02 **Zone:** HC

Owner:
BLW Properties of
7520 State Route 415
Bath, NY

Applicant : BLW Properties of Churchville
7520 State Route 415
Bath, NY 14810

Contractor :
Constr. Type: IV
Est. Project Cost : $100,000.00

Occupancy : B
Material :
Square Feet : 0

Permission is hereby granted to proceed with the work as set forth in the plans, specifications or statements now on file in the Code Enforcement Office. Any changes made to the original plans must first be submitted for approval.

The applicant shall notify Village of Churchville Code Enforcement Officer for the following inspections:

Site Work
Final Plumbing Inspection
Final Electrical Inspection
Final Inspection

It is the responsibility of the owner and/or contractor to comply will all applicable Town ordinances. All inspections require a 24-hour minimum advance notice.

Meghan Lodge

04/12/16
Date

Timothy Mc Elligott
Tim McElligott/BI/CEO/Fire Marshal

SPECIALTY SHORT TERM DISCHARGE PERMIT

County of Monroe Pure Waters District No. _____ ST- Permit No: _____

Expires: _____

Fee: $125.00

FirmName Wilkins RV Inc.
Address 111 S. Main St.
Churchville. ny 14428

Type of Business or Service RV Sales + Service

I. The above-named applicant is permitted to discharge wastes into the Monroe County Pure Waters Sewer system or Tributary thereto as applied for by an application dated 6/24/14 and verified by the applicant except the Director of Pure Waters requires the following terms and conditions to govern the permitted discharge:

A. _____
B. _____
C. _____

II. The applicant further agrees to:

1. Accept and abide by all provisions of the Sewer Use Law of Monroe County and of all pertinent rules or regulations now in force or shall be adopted in the future.
2. Notify the Director of Pure Waters in writing of any revision to the plant sewer system or any change in industrial wastes discharge to the public sewers as listed in the application. The latter encompasses either (1) an increase or decrease in average daily volume or strength of wastes listed in the application or (2) new wastes that were not listed in the application.
3. Furnish the Director of Pure Waters upon request any additional information related to the installation or use of sewer or drain for which this permit is sought.
4. Operate and maintain any waste pretreatment facilities, as may be required as a condition of the acceptance into the public sewer of the industrial wastes involved, in an efficient manner at all times, and at no expense to the County.
5. Cooperate with the Director of Pure Waters or his representatives in their inspecting, sampling, and study of wastes, or the facilities provided for pretreatment.
6. Notify the Director of Pure Waters immediately of any accident, negligence, breakdown of pretreatment equipment, or other occurrence that occasions discharge to the public sewers of any wastes or process waters not covered by this permit.

Applicant's Name(please print) Brian Wilkins

Applicant's Signature _____ Date 6/24/14

Applicant's Title President Phone 585.293.1001

Emergency Contact Denise Haggerty Phone 585.293.1001

Renewal Approved by: _____ Issued this ___ day of _____ 20 ___.

Michael J. Garland, P.E.
Director of Environmental Services-Pure Waters
Monroe County

APPLICATION PROCEDURE

1) The applicant must submit a letter requesting permission to discharge and a completed permit application. The letter must contain the information listed in item #2 below.

2) The following information is required before considering a request for discharge:
   a) Contractor or environmental representative name
   b) Contact person name, office phone #, cell phone #, fax #, email
   c) Site name, address
   d) Description of site work and history of site. Site history should include current and past businesses and activities or products produced.
   e) Former/current contents of underground storage tanks and/or material spilled and/or history of site contaminants.
   f) Quantity of wastewater to be discharged
   g) Method of treatment (if applicable)
   h) Method to control solids discharge (if applicable)
   i) Expected date of discharge
   j) Project duration

3) Monroe County Pure Waters, under Section 57 of the Worker's Compensation Law and Section 220 - Subdivision 8 of the Disability Benefits Law, is required to have on file proof that your company has worker's compensation and disability benefits for your employees. A form from your insurance carrier stating such coverage will thus be required before your permit can be processed.

4) A check, for the initial permit fee of $125.00, should be made payable to the Director of Finance, County of Monroe. The request to discharge letter, the application, the insurance form and the check should be mailed to:

Monroe County Department of Environmental Services
Industrial Waste Control
145 Paul Road, Bldg. 1
Rochester, New York 14624

As an alternative - the request to discharge letter, the completed application and the insurance form may be faxed to (585) 324-1213. The check may be given to the inspector at time of field inspection.

5) Monroe County will schedule an inspection of the site upon receipt of the above listed material.

6) Please call the Industrial Waste Control at (585) 753-7600, Option #4, for additional information.

PETROLEUM IMPACTED WATER
RULES AND REGULATIONS

1) A Specialty Short Term Discharge Permit is required for discharges to the Monroe County Sewer System or Wastewater Treatment Plant respectively. The permit fee is $125.00 (payable to the Director of Finance, County of Monroe).

2) The following conditions shall apply to this permit:

a) Required analytical testing of wastewater shall be submitted to this office for review prior to discharge.

b) The Monroe County limit for the summation of all purgeable halocarbons, aromatics, and polynuclear aromatic hydrocarbons is 2.13 mg/l. Detection levels must be at or less than 10 ug/l. Any detection level above 10 ug/l will be treated as a measured concentration.

c) Required testing includes, but is not limited to:

(1) Gasoline impacted water – Purgeable Aromatics; and Methyl Tertiary Butyl Ether (MTBE) - monitoring only. Limit not applicable at this time.

(2) Diesel or Fuel Oil impacted water – Polynuclear Aromatic Hydrocarbons.

d) The applicant must identify a suitable sanitary sewer discharge point. Monroe County will confirm the discharge point in the City of Rochester and the Towns of Gates, Chili and Ogden. Should the applicant be working in a location NOT described above, it will be the applicant's responsibility to contact the applicable Town and/or Village for similar service. The Towns/Villages of Webster, Scottsville, and Honeoye Falls are NOT part of the Monroe County Sewer System.

e) A maximum of 10 gpm discharge rate is permitted. Approval must be received from the appropriate agency (noted above) to exceed this rate.

f) Monroe County will conduct a field inspection of the site and issue a permit pending the completion and/or submission of all required information.

Office of Industrial Waste Control
Monroe County Department of Environmental Services
145 Paul Road, Bldg. 1 • Rochester, New York 14624 • Ph. 585-753-7600 (Option #4); Fax 585-324-1213
www2.monroecounty.gov/des-industrialwaste.php

Paid - Check # 008926

SPECIALTY SHORT TERM DISCHARGE PERMIT

County of Monroe Pure Waters District No. 8571 ST- Permit No: ST-317

Expires: July 27, 2016

Fee: $125.00

FirmName Wilkins RV Inc.
Address 111 S. Main St.
Churchville ny 14428

Type of Business or Service RV Sales + Service

I. The above-named applicant is permitted to discharge wastes into the Monroe County Pure Waters Sewer system or Tributary thereto as applied for by an application dated 6/21/16 and verified by the applicant except the Director of Pure Waters requires the following terms and conditions to govern the permitted discharge:

A.
B.
C.

II. The applicant further agrees to:

1. Accept and abide by all provisions of the Sewer Use Law of Monroe County and of all pertinent rules or regulations now in force or shall be adopted in the future.
2. Notify the Director of Pure Waters in writing of any revision to the plant sewer system or any change in industrial wastes discharge to the public sewers as listed in the application. The latter encompasses either (1) an increase or decrease in average daily volume or strength of wastes listed in the application or (2) new wastes that were not listed in the application.
3. Furnish the Director of Pure Waters upon request any additional information related to the installation or use of sewer or drain for which this permit is sought.
4. Operate and maintain any waste pretreatment facilities, as may be required as a condition of the acceptance into the public sewer of the industrial wastes involved, in an efficient manner at all times, and at no expense to the County.
5. Cooperate with the Director of Pure Waters or his representatives in their inspecting, sampling, and study of wastes, or the facilities provided for pretreatment.
6. Notify the Director of Pure Waters immediately of any accident, negligence, breakdown of pretreatment equipment, or other occurrence that occasions discharge to the public sewers of any wastes or process waters not covered by this permit.

Applicant's Name(please print) Brian Wilkins

Applicant's Signature [signature] Date 6/21/16

Applicant's Title President Phone 585.293.1001

Emergency Contact Denise Haggerty Phone 585.293.1001

Renewal Approved by: [signature] Issued this 28 day of June 20 16

For Michael J. Garland, P.E.
Director of Environmental Services-Pure Waters
Monroe County

COUNTY OF MONROE
SEWER USE PERMIT ENCLOSURE

Wilkins RV Inc.
111 South Main Street
Churchville, NY 14428

PERMIT NUMBER: ST-317
DISTRICT NUMBER: 8571

SITE LOCATION: Old Churchville Ford
111 South Main Street
Churchville, NY 14428
NYSDEC VCP Site #V00658-8

TYPE OF BUSINESS: Closed Car Dealership
SAMPLE POINT: Five 55-gal Drums

REQUIRED MONITORING

SELF MONITORING FREQUENCY: **Each and every batch discharge**

SAMPLING PROTOCOL: Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. In the absence of 40 CFR Part 136 testing methodology, a New York State Department of Health, approved method is acceptable. A representative grab sample, collected from the above noted sample point shall be analyzed for the following:

Analyte	Limit
Semi-Volatile Organic Compounds	*
Volatile Organic Compounds	*

* The summation of all semi-volatile organic compounds and volatile organic compounds reported greater than 10 µg/l shall not exceed 2.13 mg/L.

SPECIAL CONDITIONS:

1. **A discharge location must be approved by Monroe County.**
2. **Analytical monitoring results must be approved by Monroe Count prior to each discharge.**
3. **All future discharges must be approved by Monroe County.**

06/24/2016

From: Paul Robinson
To: Ariadna Cheremeteff
Subject: Sanitary Sewers Wilkins RV
Date: Friday, July 08, 2016 11:16:27 AM

To whom it may concern,

This letter is to confirm that the sanitary sewer connection to the Wilkins RV project located at 111 South Main Street in the village of Churchville has been inspected, tested and conforms to all applicable codes for such a connection. This letter further serves notice that all storm water collection systems for this project are of a separate system and do not contribute to the sanitary sewer collection system operated by the village of Churchville. Please feel free to contact me for additional assistance.

Thank You,

Paul A. Robinson
Superintendent of Public Works
Village of Churchville
23 East Buffalo Street
Churchville, NY 14428
Office: (585) 293-3366
Cell:(585) 746-8025
Fax:(585) 293-3693
www.churchville.net

From: SKeenan@monroecounty.gov
To: Ariadna Cheremeteff
Subject: Re: Wilkins RV Waste Water Analytical Results
Date: Wednesday, July 06, 2016 6:31:12 AM

Ariaddna,

After a review of the analytical data for the Wilkins RV site, the water staged is approved for disposal to the on site sanitary sewer system.
As we discussed on the site inspection, be sure to confirm with the local municipality that the discharge location is a sanitary sewer.

Sean Keenan

~~~~~~

Sean P. Keenan

Pretreatment Coordinator
Monroe County Department of Environmental Services
Office of Industrial Waste
145 Paul Road, Bldg. 1
Rochester, NY 14624
Phone:(585)753-7658
Cell Phone: (585) 509-2814
E-mail: skeenan@monroecounty.gov

From: Ariadna Cheremeteff <acheremeteff@luengineers.com>
To: "SKeenan@monroecounty.gov" <SKeenan@monroecounty.gov>
Date: 07/05/2016 04:02 PM
Subject: Wilkins RV Waste Water Analytical Results

Good afternoon Sean,
Please see the attached analytical results for the Wilkins drummed water.

Let me know if you need anything additional.

Thank you,
Ari

From: SKeenan@monroecounty.gov [mailto:SKeenan@monroecounty.gov]
Sent: Friday, June 24, 2016 2:08 PM
To: Ariadna Cheremeteff
Subject: Test

~~~~~~

Sean P. Keenan

Pretreatment Coordinator
Monroe County Department of Environmental Services
Office of Industrial Waste
145 Paul Road, Bldg. 1
Rochester, NY 14624
Phone:(585)753-7658
Cell Phone: (585) 509-2814
E-mail: skeenan@monroecounty.gov

-- Confidentiality Notice -- This email message, including all the attachments, is for the sole use of the intended recipient(s) and contains confidential information. Unauthorized use or disclosure is prohibited. If you are not the intended recipient, you may not use, disclose, copy or disseminate this information. If you are not the intended recipient, please contact the sender immediately by reply email and destroy all copies of the original message, including attachments.

Site Photographs
Former Churchville Ford, Inc. Site

Photo No. 1 View of MW-JCL-02 and MW-03R

Photo No. 2 MW-13

Photo No. 3 MW-06

Photo No. 4 View of cap/parking area and newly constructed building, looking west.