

**REVISED 2013 PERIODIC REVIEW REPORT
COOPERVISION
711 NORTH STREET
SCOTTSVILLE, NEW YORK**

by

**Haley & Aldrich of New York
Rochester, New York**

for

**New York State Department of Environmental Conservation
East Avon, New York**

**File No. 70665-018
Revised 7 July 2014**

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New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
East Avon, New York 14414

Attention: Mr. Frank Sowers, P.E.

Subject: CooperVision Facility – VCA Site#V00175
711 North Street
Scottsville, New York

Ladies and Gentlemen:

Haley & Aldrich, Inc. is pleased to provide this *revised* annual Periodic Review Report (PRR) for the CooperVision Facility (VCA #V00175) located in Scottsville, New York on behalf of CooperVision, Inc. This report summarizes activities performed during the period 16 May 2013 through 16 May 2014, including the results of the NYSDEC-approved supplemental remedial action (injection of Emulsified Vegetable Oil) to address contaminant residues in groundwater near the eastern property line. This report also summarizes the groundwater monitoring and sampling activities and data from the April 2013 event, since that data was not included in the revised PRR dated 23 May 2013. Corrective measures for the sub-slab depressurization system and vacuum readings collected during April 2013 were reported in the revised 2012 PRR. *This revision is based on comments received from the NYSDEC in July 2014.*

This report is being submitted to the New York State Department of Environmental Conservation (NYSDEC) in electronic (Adobe Acrobat) format conforming to the requirements of the NYSDEC letter dated 8 April 2014. An additional copy of the Engineering/Institutional Control Certification Form *has already been* submitted in hard copy format as requested.

Please do not hesitate to contact us should you have any questions regarding this report.

Sincerely yours,

HALEY & ALDRICH OF NEW YORK



Mark N. Ramsdell, P.E.
Senior Project Manager



Vincent B. Dick
Senior Vice President

Enclosures

c: CooperVision; Randy Golden
CooperVision; Chuck Rogers
BakerHostetler; Christopher H. Marraro, Esq.

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EXECUTIVE SUMMARY

The CooperVision Site is located at 711 North Road in Scottsville, New York (See Figures 1 and 2) (the "Site"). The Site has been used for manufacturing of contact lenses since the mid-1970s. It includes the original site building with later additions comprising an aggregate total building area of approximately 50,000 sq. ft. Soil and groundwater on some portions of the Site have been found to contain certain volatile organic compounds (VOCs), primarily 1,1,1-trichloroethane (1,1,1-TCA) and its breakdown daughter products.

The Site has been remediated as part of the New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP). The remedy for the Site included the following:

- Injection of Hydrogen Release Compound (HRC) to stimulate reductive dechlorination of the Site contaminants of concern (performed 2001).
- Installation and operation of a sub-slab depressurization system in the Site building to mitigate potential soil vapor intrusion (constructed and started 2006, operated continuously since).
- Installation of soil-bentonite-cement trench collars along utility lines to mitigate the potential for impacted soil vapors from migrating offsite via a potential preferential subsurface utility pathway (constructed 2008).
- Injection of an Emulsified Vegetable Oil up gradient of the Well MW-202 Area (initiated in 2013) to provide additional substrate for biologic breakdown of contaminant residues in groundwater near the eastern property line.

Also included as part of the remedy, was the recording of Deed Restrictions. The Deed Restrictions address administrative control requirements of the VCA, including, but not limited to continuing the industrial use of the property, preventing use of groundwater at the site without prior approval of the state, and other measures required by NYSDEC, such as adherence to a NYSDEC approved Site Management Plan (SMP) for long-term management of the Site to maintain protection of human health and the environment.

Following approval of the Final Engineering Report (FER) on 16 June 2010 and the SMP on 29 July 2010, the NYSDEC granted CooperVision a release from liability for the Site on 29 November 2010. The Site is currently in a Site management program per the SMP.

The Site management program consists of implementing institutional and engineering controls (IC/ECs). Engineering controls include maintenance of the existing site cover, the sub-slab depressurization system (SSDS), and utility trench collars. Monitoring of the engineering controls is conducted periodically per the SMP. Institutional controls include those listed in the Deed Restrictions on the property, which include groundwater and land use restrictions, and adherence to the SMP. The institutional and engineering controls have remained in-place and functioned as designed during the reporting period without exception.

In addition, semi-annual groundwater sampling was conducted to monitor effectiveness of the Site remedy. The groundwater results indicate that the Site conditions are stable with the exception of results of trend analysis for one well. Past results of MW-202 showed an increasing trend based on trend analysis criteria established in the SMP. As required by the SMP an evaluation was conducted as per Section 3.4.2 of the SMP, and a Remedial Action Work Plan (RAWP) for supplemental remedial action was approved by the NYSDEC. Results of the RAWP implementation (well installation and injection

of Emulsified Vegetable Oil) are reported in this PRR. One round of sampling has been completed since injection of the Emulsified Vegetable Oil, and results show initial effects of the injection such as changed geochemistry indicating enhanced reducing conditions and increased organic substrate to support bioremediation. The trend analysis still shows an increasing trend at MW-202 but continued monitoring will be completed during the next sampling event(s) to determine effectiveness.

During the reporting period, CooperVision also completed a building addition on the northeast portion of the existing building, which involved excavation and offsite disposal of Site soil and imported backfill. The NYSDEC was notified in advance of the work and soil management activities were conducted in accordance with project-specific SMP.

There were no areas of non-compliance noted during the reporting period. The SMP and Deed Restrictions remain in-place, groundwater has not been used, and Site use is consistent with land use restrictions (commercial/industrial).

We do not recommend changes to the Site management program at this time.

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1. SITE OVERVIEW

The CooperVision Site is located at 711 North Road in Scottsville, New York (See Figures 1 and 2) (the “Site”). The Site has been used for manufacturing (fabrication of contact lenses) since the mid-1970s and includes the original building with additions having a total area of approximately 50,000 sq. ft. Soil and groundwater on some portions of the Site contain certain volatile organic compounds (VOCs), primarily 1,1,1-trichloroethane (1,1,1-TCA).

Soil and groundwater investigations were conducted at the Site between 1998 and 2000 as part of application for and acceptance into a 1998 investigation Voluntary Cleanup Agreement (VCA). Following investigation, a remedy was selected for the Site, which consisted of an injection with hydrogen release compound (HRC) to stimulate and enhance intrinsic bioremediation of the VOCs in the soil and groundwater. The HRC injection was conducted in 2001. In addition, a sub-slab depressurization system (SSDS) was installed in a portion of the Site building as a mitigative measure in 2006 as part of an Interim Remedial Measure (IRM).

A supplemental vapor intrusion investigation was conducted on the Site, in the right-of-way to the east of the Site, and on the adjacent apartments/townhomes to the east of the Site in 2008 and 2009. The investigation revealed soil vapors with detectable concentrations of Site compounds (1,1,1-TCA, 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), chloroethane, and vinyl chloride) along the property line and in the adjacent eastern right-of-way, though the vapors were determined not to be adversely impacting the indoor air or sub-slab vapor at the apartment or townhome buildings to the east (per indoor air and sub-slab vapor testing). In addition to the investigation, a second IRM was completed that consisted of installing soil-bentonite-cement (SBC) trench collars in five(5) locations along existing utilities located on the CooperVision Site and within the adjacent eastern right-of-way. The purpose of the trench collars was to mitigate the potential for Site and nearby utility lines to act as potential preferential pathways for impacted soil vapors and groundwater.

Also included as part of the remedy, was the recording of Deed Restrictions. The Deed Restrictions address administrative control requirements of the VCA, including, but not limited to continuing the industrial use of the property, preventing use of groundwater at the site without prior approval of the state, and other measures required by NYSDEC, such as adherence to this Site Management Plan for long-term management of the Site to maintain protection of human health and the environment.

Following submittal and approval of a 16 June 2010 Final Engineering Report (FER) and 29 July 2010 Site Management Plan (SMP) and, the NYSDEC granted CooperVision a release from liability for the Site on 29 November 2010.

This report summarizes activities performed during the period 16 May 2013 through 16 May 2014. This report also summarizes the groundwater monitoring and sampling activities and data from the April 2013 event, since that data was not included in the revised PRR dated 23 May 2013. Historical data shown in this report contains data collected since the SMP was approved. Corrective measures for the sub-slab depressurization system and vacuum readings collected during April 2013 were reported in the revised 2012 PRR.

A corrective action was implemented during the reporting period to address groundwater concentrations observed at MW-202 during the 2012 reporting period which were determined through the SMP trend analysis procedure to constitute an increasing trend. The Remedial Action Work Plan (RAWP) was developed and implemented, which included the installation of an array of injection wells between the

source area and mid-gradient monitoring well MW-202. The RAWP was approved by the Department on 18 October 2013 and was implemented in November 2013; periodic injections of the substrate are on-going.

The corrective action activities included:

- The installation of seven (7) permanent injection wells
- The installation of two (2) bioaugmentation points (BAP)
- The introduction of emulsified oil via gravity as a biostimulation substrate
- The collection of groundwater samples at the BAP locations

The results of the groundwater monitoring conducted as part of the corrective action activities is provided in Section 3.1.4 of this report.

2. COMPLIANCE REPORT

2.1 Institutional Controls - Requirements and Compliance

A series of site restrictions in the form of Deed Restrictions are in effect at the Site. Those restrictions include prohibition of groundwater use unless rendered safe for the intended purpose and land use restrictions (commercial and/or industrial use, only). The Deed Restrictions also stipulate that the Site be managed under an approved SMP and that it be periodically certified that the engineering controls remain in-place at the Site and continue to be effective. These controls are to be certified annually by the property owner and professional engineer representing the remedial party, which is provided in this report.

The site restrictions have not been breached, and the Deed Restrictions remained in force during the reporting period. Certifications are included in Appendix A.

2.2 Engineering Controls - Requirements and Compliance

There are three engineering controls in place at the Site, which are as follows and further described in the sections below:

1. Existing Cover
2. Sub-Slab Depressurization System
3. Soil-Bentonite-Cement Utility Trench Collars

2.2.1 Existing Cover

Potential exposure to residual contamination at the Site is prevented by an existing cover, which consists of the CooperVision building slab, pavement, and vegetative cover. The existing cover is required to be maintained in accordance with the SMP. Excavations that breach the existing cover require additional monitoring and soil management in accordance with the Excavation Management Plan included in the SMP. In addition, fill materials imported onto the Site must be tested prior to Site use to demonstrate that they comply with the requirements in the SMP. The cover system is monitored via visual inspection at the time of excavations as required, and during periodic Site visits as part of monitoring and certification.

2.2.1.1 Building Addition

During the reporting period, CooperVision completed a building addition on the northwest corner of the existing building (see Figure 2). The work was done in an area that has not been a concern in regards to contamination and was located outside the soil and groundwater remediation area identified in the SMP. The work was done in accordance with the SMP, with project-specific modifications approved by the NYSDEC as summarized below. Copies of correspondence with the NYSDEC are included in Appendix B.

On 6 June 2013, Haley & Aldrich notified the NYSDEC of CooperVision's plan to construct a 12 x 40 ft. addition to the northwest corner of the existing building. Prior to construction, test pits were completed in the excavation area to pre-screen and sample soils within the proposed foundation footprint of the new building. On 25 June

2013, six (6) test pits were completed by Nothnagle Drilling, Inc., and soil screening and sampling were conducted by Haley & Aldrich. CAMP monitoring and soil management were conducted in accordance with the SMP during the test pit activities.

The 6 June 2013 notification included several requests for project-specific modifications to the SMP. Upon review of the test pit data, NYSDEC provided project-specific modifications to the SMP. These modifications were incorporated during the remaining excavation activities for the building addition foundation and included the following:

- CAMP monitoring as described in the SMP Excavation Plan was not required, as long as controls were put in place to manage dust and there was no visible dust leaving the work area, and the excavated soil stockpiles were managed in accordance to the SMP.
- Soil screening as described in the SMP Excavation Plan was not required.
- A soil vapor intrusion investigation as discussed in the SMP was not necessary since no VOCs were identified in the test pit data and the area is not known to have been impacted with VOCs.
- Backfill requirements of the SMP Excavation Plan were modified to be consistent with DER-10 Section 5.4(e) 5, 6 and 7. Per Section 5.4(e)5, imported backfill is exempt from analytical testing if: a) the material is gravel, rock or stone, consisting of virgin material from a permitted mine or quarry; and b) it contains less than 10% by weight material which would pass through a size 80 sieve. Per Section 5.4(e)6&7, documentation of the source of the backfill material is provided to NYSDEC for approval before it is used on the site and bills of lading are provided to NYSDEC in the PRR to document that the fill delivered was from the approved source.

The remaining excavation and backfill work was completed during the fall of 2013. Based on the test pit results, the excavated soils did not meet the criteria established in the SMP for reuse onsite for metals (arsenic, barium, chromium III, copper, manganese, nickel, and zinc). Therefore, the excavated material was removed from the site and managed in accordance with the SMP. Approximately 150 tons of material from the test pit and building foundation excavations was disposed offsite at Mill Seat Landfill, a permitted disposal facility in Bergen, New York. The excavation was backfilled with approximately 50 tons of imported gravel from an NYSDEC permitted quarry. Documentation of the source of the backfill material was provided to the NYSDEC prior to its use onsite. Documentation for offsite disposal and imported backfill are included in Appendix B.

2.2.1.2 Trenching to Existing Onsite Transformer

On 4 September 2013, prior to beginning the excavation for the building addition described above, CooperVision hired John F Miller Excavating to prepare a 2 foot electrical utility trench approximately 400 feet long from the existing onsite transformer to the proposed building addition (Figure 2). The trench was located outside the soil and groundwater remediation area identified in the SMP. CAMP monitoring and soil

screening were conducted during excavation activities in accordance with the SMP. Haley & Aldrich observed no evidence of impacted soils during trenching activities.

2.2.1.3 Tree Removal

On 15 October 2013, CooperVision hired Terry Tree Service, LLC to complete tree removal activities (i.e. stump grinding) off the southeastern corner of the portion of the building along North Road (Figure 2). Haley & Aldrich conducted screening of the area with a handheld PID. No soils beneath the topsoil layer were breached and/or no disturbances occurred which would have resulted in the need to manage contaminated materials. Surface cover (top soil and wood chips/grindings) remained in-place. Haley & Aldrich observed no impacted soils or elevated PID readings.

2.2.1.4 Well Maintenance

In accordance with the SMP, monitoring wells are inspected during each groundwater sampling event to assess structural integrity and overall performance. During the 1 and 2 April 2013 groundwater sampling event, Haley & Aldrich observed several wells that required maintenance and/or repairs to maintain the integrity of the well and to ensure accurate measurements are obtained during future sampling events. Well inspection observations were documented in the sampling field sheets (Appendix E).

Well maintenance was performed on several wells by Nothnagle Drilling, Inc. under the oversight of Haley & Aldrich on 25 June 2013. No soil disturbances beneath the asphalt cover occurred. The well maintenance was completed as follows:

- Replaced missing road box bolts at MW-205 and OWS-302.
- Road boxes and concrete pads were replaced at MW-204, MW-3, and MW-401.
- The OW-302S and OW-302D cluster had been inadvertently paved over. The well cluster was located under the pavement using a metal detector. The pavement was removed and new road boxes and concrete pads were installed.

2.2.2 Sub-Slab Depressurization System

A sub-slab depressurization (SSD) system was installed as a contingency measure in order to mitigate potential risks of soil vapor intrusion, at the request of the NYSDEC and the New York State Department of Health (NYSDOH). The system was designed according to the “Sub-Slab Depressurization System (Amended Work Plan)” dated 18 May 2006 (Amended SSD Work Plan) and correspondence from the NYSDEC (RE: CooperVision Site #V00175-8, Sub-Slab Depressurization System (Amended Work Plan)) dated 8 August 2006.

Six (6) fans were installed to depressurize the sub-slab in the vicinity of the identified source area of groundwater contamination, each with a discrete suction location (except for the fan above the switch gear room which has two suction locations). The fans are located on the roof of the facility. In addition to the suction points and fans, seventeen (17) permanent vacuum measurement points were installed.

Based on vacuum testing results and regular system monitoring, the sub-slab depressurization system appears to be working as designed. Refer to Section 3.2 below, for additional information, including updates provided with this PRR.

2.2.3 Soil-Bentonite-Cement Utility Trench Collars

In order to reduce the potential for onsite and offsite utility lines (natural gas and water) to act as preferred pathways for offsite migration of soil vapor, five (5) soil-bentonite-cement (SBC) trench collars were installed along both the natural gas and water lines on the CooperVision Site and in the adjacent eastern right-of-way (Figure 2). The trench collars are monitored via visual inspection at the time of utility excavations if and when such excavations are required.

Activities that would have impacted the integrity of the trench collars were not performed during the reporting period. The trench collars therefore remain in-place as designed and installed.

2.2.4 Remedial Action Work Plan Implementation

After evaluation of the increasing trend analysis for MW-202, a Remedial Action Work Plan (RAWP) was prepared by Haley & Aldrich dated 1 October 2013. The RAWP was for the Emulsified Vegetable Oil Injection to be performed at the site in close proximity to the MW-202 well. The NYSDEC approved the plan on October 18, 2013, and the implementation was commenced on 18 November 2013. A local driller was engaged to install seven (7) injection points perpendicular to the determined groundwater flow direction and approximately twenty (20) feet west of MW-202. Each injection point was advanced to approximately 20 feet below ground surface (bgs) which is approximately 5 feet below the static groundwater table in this area of the Site. Each point was installed using a modified conventional drilling method (6-1/4 inch hollow-stem auger), and 5-7/8 inch air rotary to advance the injection hole to desired depths, then backfilled with pea stone to approximately ten (10) feet bgs. A four inch PVC riser was then installed to ground surface where a temporary flush mount road box was installed. This drilling process was utilized to manage the dense soils, allow injection of the design volume of amendment, and provide for a stable, trafficable parking lot surface following completion of site work.

Two (2) microwell points, useable for bioaugmentation, were installed following the injection point installation. The points are to be used for monitoring of the in-situ groundwater conditions. The points were constructed with 1-inch PVC risers with 0.10 slotted well screens extending from 10 to 20 feet bgs. All material removed was loaded into a roll off box and disposed of at Mill Seat landfill in Riga, NY.

After installation of the points and microwells, initial water levels were monitored and the emulsified vegetable oil was poured into each injection point in measured amounts and allowed to migrate into the formation via gravity. This process was repeated periodically from November 2013 to the present and will continue. The amounts and dates are summarized on Table VI. This process will continue until the total amount of 110 gallons has been injected.

2.3 IC/EC Certification

Based on site visits and interviews with site personnel, the IC/ECs are herein certified by Mark N. Ramsdell, a professional engineer in the State of New York. Refer to Appendix A for a copy of the appropriate certification documentation.

3. OPERATIONS, MAINTENANCE, & MONITORING PLAN COMPLIANCE REPORT

Onsite monitoring during this reporting period consisted of three (3) groundwater sampling events in accordance with the sampling and analysis plan in the SMP and two (2) rounds of sub slab vacuum measurements of the sub-slab depressurization system (SSDS). Monitoring of the groundwater and operations, maintenance, and monitoring of the SSDS are further described below.

3.1 Groundwater Monitoring

Groundwater sampling was conducted in April 2013, October 2013, and April 2014. Updated summary tables (Tables I through IV), associated time series charts and groundwater contours (Figure 3, 4, and 5) are attached. The laboratory data has been submitted as an EQUIS deliverable to the NYSDEC.

Overall, the data appear consistent with previous sampling events. The following summarizes our observations from the groundwater monitoring program:

3.1.1 Source Area

Refer to Table I and Table IV for a summary of source area well data. Wells in the source area (MW-205 and OWS-302S) continue to show evidence that biological degradation continues to be active as described below:

- *The groundwater sampling results indicate a decreasing concentration for 1,1,1-TCA concentrations in well MW-205 over the reporting period.*
- 1,1-DCA continues to be detected in well MW-205 at levels consistent with previous sampling events, and has shown a decrease over the reporting period. These conditions indicate that this compound is not “stacking” within the aquifer and appears to be degrading. Both chloride ion and ethane were detected in MW-205 during the reporting period which are the completion products of the reductive dechlorination process for 1,1,1-TCA as shown below:

Reductive Dechlorination of 1,1,1-Trichloroethane:



- 1,1,1-TCA was not detected at OWS-302S. 1,1 DCA and chloroethane were detected at OWS-302S and chloride ion, an end product of the reductive dechlorination process was detected at elevated concentrations throughout the reporting period.
- Metabolic acids, butyric, propionic and acetic were detected in MW-205 indicating that the biologic processes initially stimulated by the Hydrogen Release Compound (HRC) injection continues to release hydrogen into the groundwater for enhancement of the reductive dechlorination processes. Metabolic acids were not analyzed for the other wells.
- The presence of ferrous iron (Fe^{2+}) and negative oxidation reduction potential (ORP) readings in the source area indicate that the aquifer conditions continue to be anaerobic, which is conducive to promote further reductive dechlorination of the 1,1,1-TCA and its associated daughter products.

3.1.2 Mid-gradient Area

A summary of mid-gradient area well data is provided in Table II for VOC and dissolved gases and Table IV for inorganic and field parameters. Overall, mid-gradient conditions are similar to recent groundwater monitoring events.

- 1,1,1-TCA was not detected in the mid-gradient wells sampled.
- In the mid-gradient area, 1,1-DCA and vinyl chloride concentrations continue to decline or remain steady in the wells with detectable concentrations. 1,1-DCA was not detected at MW-502 suggesting reductive dechlorination is progressing.
- Chloroethane, the breakdown product of 1,1-DCA, continues to be detected in the mid-gradient wells, most notably in MW-502. Concentrations in the mid-gradient wells decreased during the reporting period indicating that reductive dechlorination is continuing to progress to completion in this area.

3.1.3 Down-gradient Area

Table III provides a summary of groundwater quality for the downgradient wells MW-202, MW-203, MW-204 and OW-306. Overall, down-gradient groundwater conditions at these monitoring well locations are similar to previous groundwater monitoring events.

- 1,1,1-TCA concentrations were not detected in the downgradient wells with the exception of in MW-204, where it was detected at the laboratory reporting limit of 5.0 parts per billion (ppb). It has been detected sporadically in the past in this well at similar concentrations.
- 1,1-DCA and 1,1-dichloroethene (1,1-DCE) were detected in wells MW-202 and MW-204 during the reporting period. The concentrations of 1,1-DCA and 1,1,DCE detected during the reporting period from April 2013 through April 2014 at MW-202 was slightly lower than the concentrations detected during the October 2012 sampling event .
- Chloroethane was not detected above the laboratory reporting limits in any of the down-gradient wells.
- VOCs were not detected above the laboratory reporting limits at MW-306 and MW-203.

3.1.4 Remedial Action Monitoring Locations

Bioaugmentation points identified as BAP-1 and BAP-2 were installed as part of the remedial action implemented during the reporting period. The monitoring locations were constructed of 1-inch diameter PVC well points installed using hollow-stem auger drilling techniques to the west of MW-202. The points were sampled for the first time as part of the April 2014 sampling event so there are no historical results for these monitoring locations. The field and indicator parameter analysis data (Table III) indicate that the emulsified oil injection program has induced reducing groundwater conditions in this area of the Site.

These observations include:

- Negative ORP readings of approximately -200 mV
- Low dissolved oxygen (DO) concentrations of less than 0.5 ppm
- An increase in total alkalinity relative to MW-202
- A lower concentration of sulfate relative to MW-202
- The presence of sulfide corresponding to the reduction of sulfate
- A lower concentration of nitrate relative to MW-202
- An elevated concentration of Total Organic Carbon (TOC) of approximately 10 parts per million (ppm)
- The presence of Propionic and Acetic Acid

The field and indicator parameter data suggest that the groundwater conditions in this area of the Site is poised to support enhanced biodegradation of the groundwater contaminants via reductive dechlorination. These observations are further supported by the presence of the daughter products of 1,1-DCA and 1,1-DCE and chloroethane at the BAP monitoring locations. The concentrations of these parameters were higher than observed at MW-3 and MW-202 suggesting that the introduction of the substrate has solubilized these constituents from the surrounding soil matrix into the groundwater.

It is anticipated that the intrinsic microbial population will actively biodegrade these constituents via reductive dechlorination as has been observed throughout the Site.

3.1.5 Mann-Kendall Trend Analysis

The analytical results for the VOC analyses from the groundwater sampling events conducted during the reporting period in conjunction with the previous sampling events were evaluated using the Mann-Kendall statistical test for trend analysis (Refer to Appendix C for the results of the Mann Kendall trend analysis).

In summary, most wells showed no trend, and MW-3 and MW-501 exhibited a decreasing trend. Even though the measured concentration of these constituents showed a slight decrease from October 2012 through April 2014, an increasing trend was noted at MW-202 for 1,1-DCE and at MW-204 for both 1,1-DCE and 1,1-DCA through the reporting period, consistent with the basis for which the RAWP was developed and implemented.

Note: Mann-Kendall trend analysis does not take into account magnitude of an increase or decrease; therefore as 1,1,1-TCA continues to degrade within the source area, it is expected that the daughter compounds, 1,1-DCA and 1,1-DCE will continue to increase in concentration at the downgradient wells prior to establishing a decreasing trend as reductive dechlorination proceeds towards completion.

It is also anticipated that the introduction of the emulsified oil substrate upgradient from MW-202 could induce an increased solubilization of these parameters from the soil matrix as suggested by the analytical results for the BAP locations but we anticipate that as biodegradation is enhanced in this area of the Site any increase in groundwater concentrations that may be observed will be temporary.

3.2 Sub-Slab Depressurization System Operations, Maintenance, and Monitoring

The sub-slab depressurization system continuously operates at the Site and is monitored weekly by CooperVision staff. CooperVision staff record the system vacuum readings and operations data on a Maintenance Form. This data is either stored onsite or sent offsite by CooperVision for permanent storing at a document storage facility. No maintenance was required or performed on the system during the reporting period.

The system was evaluated in October 2013 and in April 2014 by Haley & Aldrich. The system evaluation included vacuum measurements at the seventeen (17) existing monitoring points located within the facility. Overall, the system operation is consistent as in the past and appears to be acceptable. Leaks and/or other system concerns were not observed. The sub-slab vacuum levels were above the design criteria of 0.002 inches of water, except in the switchgear room and the Injection Molding Room. The switchgear room was noted during the initial installation and is caused by the negative pressure created by the facility's vacuum pumps located in this room. The Injection Molding Room is similar in that it has a large ventilation fan that when the door is closed the interior pressure goes negative and then switches the sub slab differential pressure to be positive. Vacuum testing results are included in Table V. Vacuum testing locations are shown on Figure 5.

4. CONCLUSIONS & RECOMMENDATIONS

The following are conclusions and recommendations regarding the PRR for the Site during the reporting period:

- Site management complied with the SMP during the reporting period. Excavations and/or importation of clean fill material conducted during the reporting period were performed in accordance with the Excavation Management Plan in the SMP with modifications that were approved by the Department prior to implementation.
- The engineering controls (existing cover, sub-slab depressurization system, trench collars) were maintained during the reporting period.
- The Deed Restrictions remain in place. Groundwater has not been used at the Site during the reporting period. Site land use has remained manufacturing during the reporting period as dictated in the deed restrictions.
- Groundwater monitoring results indicate that the existing groundwater plume remains stable and that degradation is continuing; an apparent increasing trend in two compounds at well MW-202 and MW-204 has been indicated by the Mann-Kendall statistical evaluation.
- No modifications to the Site remedy are recommended at this time.
- The implementation of the approved Remedial Action Work Plan should continue. Only one round of sampling has been completed since injection, and results show initial effects of the injection such as changed geochemistry indicating enhanced reducing conditions and increased organic substrate to support bioremediation. After the identification of the presence of the EVO is determined in MW-202, the next steps in the remedial action shall include the evaluation of the intrinsic microbial population through the use of Biotraps[®] placed within the BAP locations and the introduction of microbial consortia if deemed necessary based on the results of the Biotrap[®] testing.

TABLE I
COOPERVISION, INC.
SUMMARY OF VOLATILE GASES AND DISSOLVED GASES
SOURCE AREA WELLS

All values expressed in mg/L (ppm)

Sample ID: Well Screen Interval (ft): Date Sampled:	OWS-302S 13.0 - 14.0									MW-205 21.2 - 28.0								
	4/21/10	10/18/10	4/13/11	10/14/11	4/13/12	10/19/12	4/12/13	10/3/13	4/2/14	4/21/10	10/18/10	4/13/11	10/14/11	4/13/12	10/19/12	4/26/13	10/3/13	4/2/14
Compound:																		
VOLATILE ORGANICS	500x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.	250x Dil.	250x Dil.	1000x Dil.	2000x Dil.	2000x Dil.	2500x Dil.	2000x Dil.	2000x Dil.	2000x Dil.	2000x Dil.	2000x Dil.
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	56	10	220 D	ND	ND	ND	0.47	ND	ND	230 D	220	300	230	250	250	240	230	220
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	160	130	110	120	210	140	110	75
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	30	74	7.5	72	52	41	45	36	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	0.052	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMI-VOLATILE ORGANICS																		
Bis(2-ethylhexyl) phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES	10x Dil.	20x Dil.		125x Dil.	125x Dil.	125x Dil.	100x Dil.	200x Dil.	100x Dil.							5x Dil.	10x Dil.	25x Dil.
Methane	0.93	1.3	0.054	11	13	17	6.6	14	8.8	0.011	0.006	0.130	0.024	0.021	0.015	0.520	1.000	2.200
Ethane	ND	ND	0.018	0.0057	ND	ND	ND	ND	ND	0.013	0.006	0.011	0.024	0.021	0.012	0.014	0.010	ND
Ethene	ND	ND	0.026	0.0052	ND	ND	ND	ND	ND	0.012	0.0062	0.0077	0.017	0.014	0.012	0.011	0.01	ND

Notes & Abbreviations:

- ND: Not Detected
- NA: Not Analyzed
- DRY: Insufficient Recharge
- D: Diluted Result
- J: Estimated Result
- B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale may vary between graphs in order to depict ranges of values for each well.

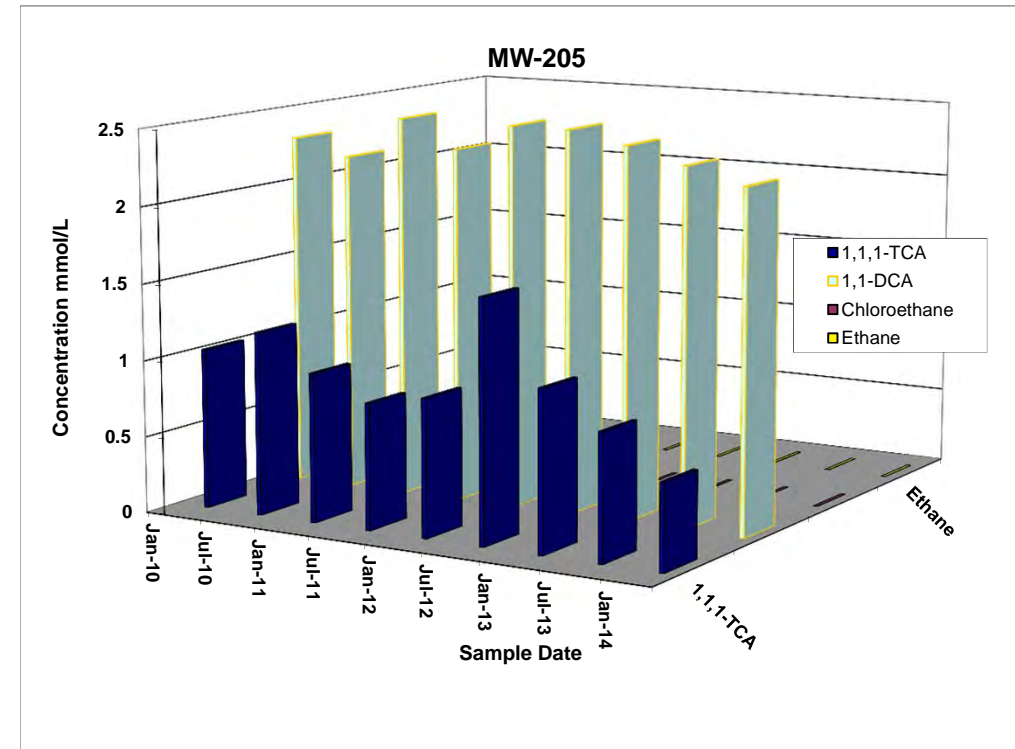
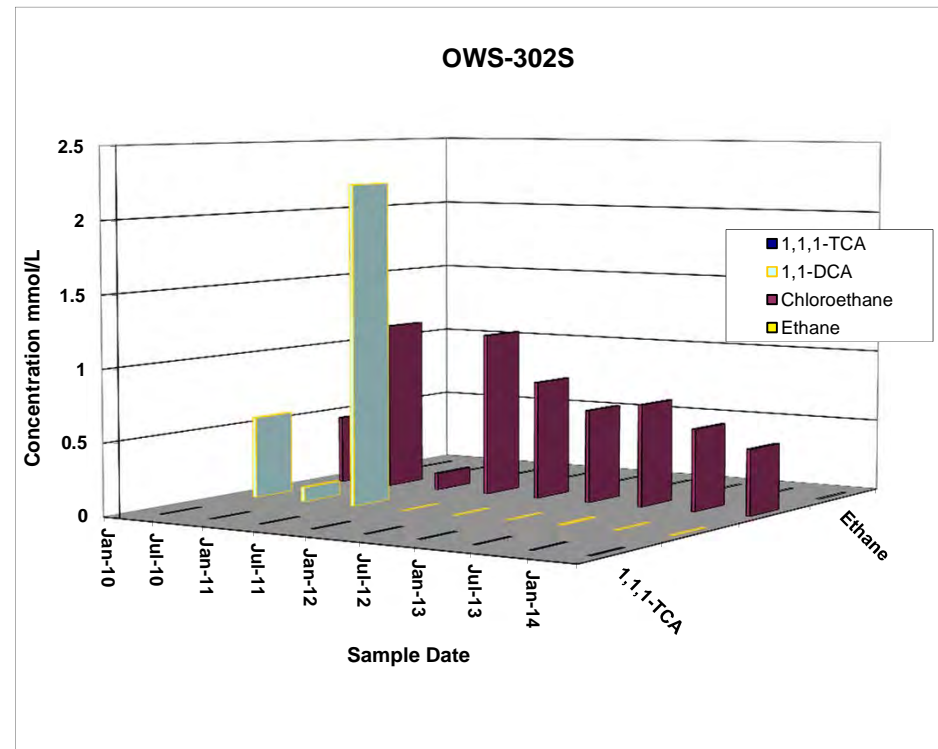


TABLE II
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft):	MW-3 3.0 - 10.0									MW-501 20.0 - 25.0									
Date Sampled:	4/21/2010	10/19/2010	4/12/2011	10/14/2011	4/13/2012	10/19/2012	4/11/2013	10/3/2013	4/1/2014	4/21/2010	10/18/2010	4/13/2011	10/14/2011	4/13/2012	10/19/2012	4/12/2013	10/3/2013	4/2/2014	
Compound:	10x Dil.	10x Dil.	10x Dil.	10x Dil.	10x Dil.	10x Dil.	5x Dil.	10x Dil.	5x Dil.	2.5x Dil.	2.5x Dil.	5x Dil.	5x Dil.	5x Dil.	5x Dil.	5x Dil.	10x Dil.	2x Dil.	
VOLATILE ORGANICS																			
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.1	0.16	0.098	0.052	0.096	0.067	0.077	0.093	0.074	0.088	0.089	0.15	0.1	0.17	0.16	0.076	0.13	0.063	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.0	1.7	1.5	1.1	1.7	1.0	0.94	1.2	0.99	0.46	0.49 D	1.2 D	0.9 D	0.98 D	1.4 D	0.59	1.4	0.34	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.25	0.38	0.32	0.19	0.29	0.14	0.15	0.14	0.083	0.065	0.095	0.1	0.084	0.079	0.09	0.094	0.093	0.055	
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																			
Methane	0.93	1.6 D	1.4	2.4	4.3	3.5	1.7	2.2	1.6	15	9.7	19	13	17	12	12	12	10	
Ethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethene	0.020	0.031	0.032	0.053	0.110	0.083	0.048	0.070	0.058	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes & Abbreviations:

- ND: Not Detected
- NA: Not Analyzed
- DRY: Insufficient Recharge
- D: Diluted Result
- J: Estimated Result
- B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale may vary between graphs in order to depict ranges of values for each well.

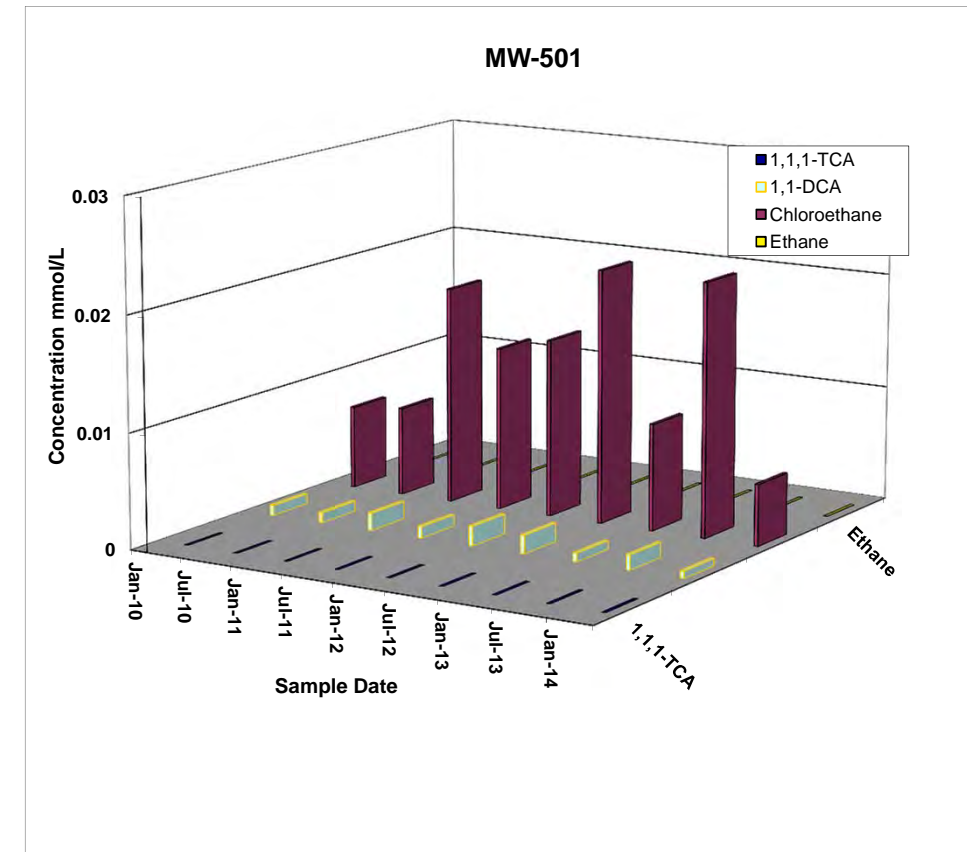
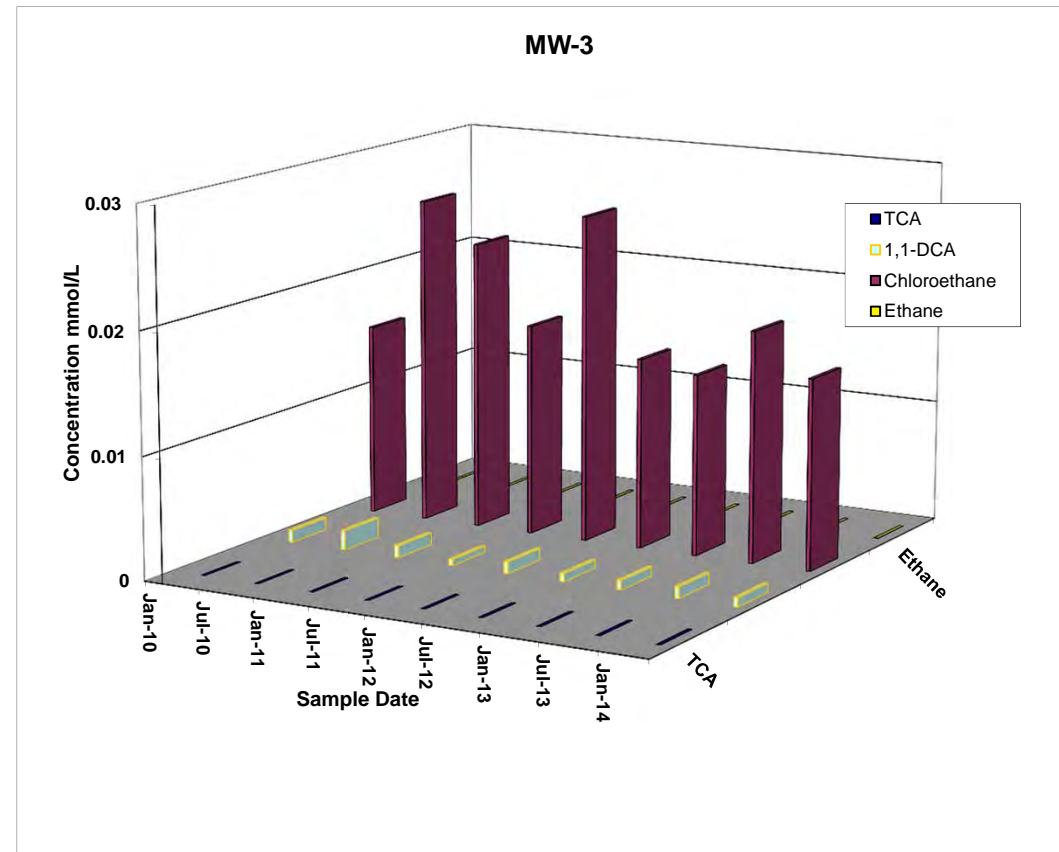


TABLE II
 COOPERVISION, INC.
 SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
 MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: MW-502										BAP-01	BAP-02
Well Screen Interval (ft): 30.0 - 35.0										10.0 - 20.0	10.0 - 20.0
Date Sampled:	4/21/2010	10/18/2010	4/12/2011	10/14/2011	4/13/2012	10/19/2012	4/12/2013	10/3/2013	4/2/2014	4/2/2014	4/2/2014
Compound:											
VOLATILE ORGANICS	50x Dil.	100x Dil.	100x Dil.	100x Dil.	100x Dil.	100x Dil.	25x Dil.	50x Dil.	25x Dil.	20x Dil.	2x Dil.
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	0.25
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	0.18
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	11 D	13	17	16	15	11	4.9	7.2	4.4	0.16	0.012
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	0.6	ND	0.28	0.54	0.36	0.065	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES	200x Dil.	200x Dil.	200x Dil.	250x Dil.	250x Dil.	250x Dil.	125x Dil.	250x Dil.	250x Dil.	5x Dil.	
Methane	15	11	18	17	20	21	8.8	22	16	0.33	0.061
Ethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0072
Ethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0072	0.002

Notes & Abbreviations:

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- DRY: Insufficient Recharge
- D: Diluted Result
- J: Estimated Result
- B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale may vary between graphs in order to depict ranges of values for each well.

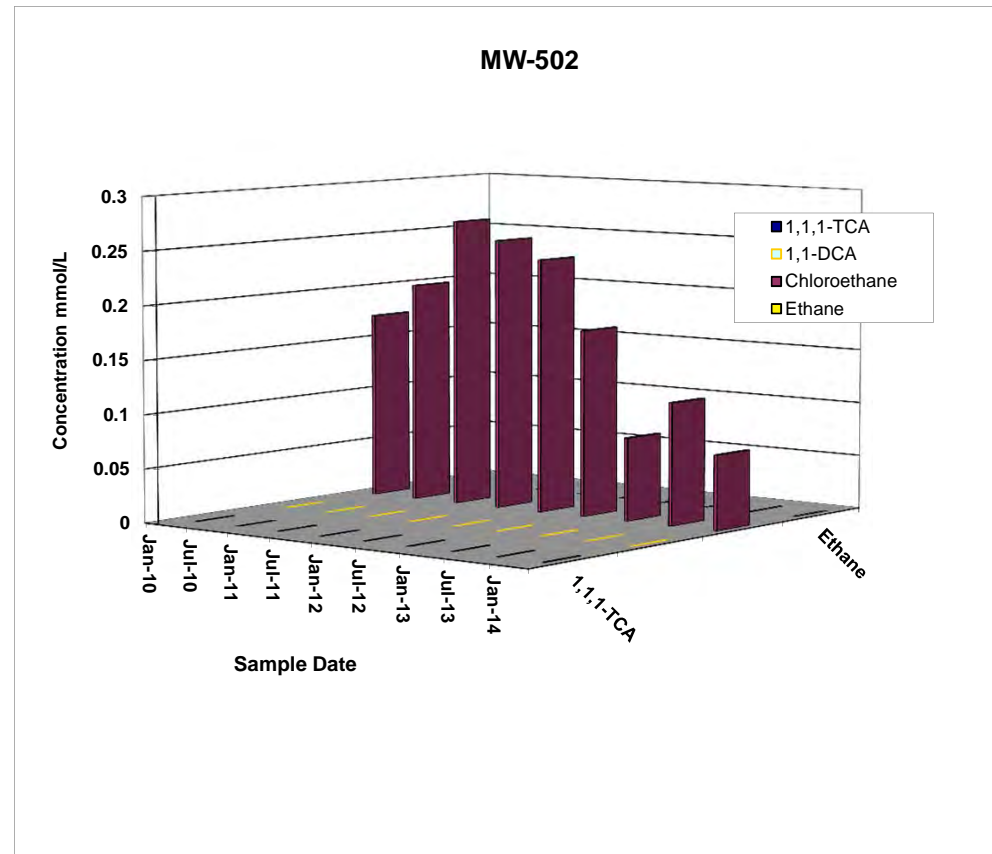


TABLE III
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
DOWN-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft):	MW-202 10.1 - 20.3									MW-203 9.8 - 20.0									
Date Sampled:	4/21/10	10/19/10	4/12/11	10/13/11	4/12/12	10/19/12	4/11/13	10/3/13	4/1/14	4/21/10	10/19/10	4/11/11	10/13/11	4/12/12	10/18/12	4/11/13	10/3/13	4/1/14	
Compound:																			
VOLATILE ORGANICS																			
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0130	ND	0.0160	0.0300	0.0180	0.0510	0.0340	0.0300	0.0360	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	0.0083	ND	0.0100	0.0200	0.0140	0.0400	0.0320	0.0260	0.0360	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DISSOLVED GASES																			
Methane	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes & Abbreviations:

- ND: Not Detected
- NA: Not Analyzed
- DRY: Insufficient Recharge
- D: Diluted Result
- J: Estimated Result
- B: Blank Contamination
- E: Estimated Result

1. The tables represent all data as reported from the lab in concentration format (mg/L).

TABLE III
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
DOWN-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft):	MW-204 9.8 - 20.0									OW-306 4.0 - 14.0									
Date Sampled:	4/21/10	10/19/10	4/12/11	10/14/11	4/12/12	10/19/12	4/11/13	10/3/13	4/2/14	4/21/10	10/19/10	4/11/11	10/13/11	4/12/12	10/18/12	4/11/13	10/2/13	4/1/14	
Compound:																			
VOLATILE ORGANICS																			
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0055	0.0130	0.0059	0.0077	0.0082	0.0071	0.0074	0.0074	0.0074	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.0053	0.0130	ND	0.0087	0.0084	0.0067	0.0092	0.0093	0.0094	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	0.0063	ND	ND	0.0051	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																			
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:

- ND: Not Detected
- NA: Not Analyzed
- DRY: Insufficient Recharge
- D: Diluted Result
- J: Estimated Result
- B: Blank Contamination
- E: Estimated Result

1. The tables represent all data as reported from the lab in concentration format (mg/L).

TABLE IV
 COOPERVISION INCORPORATED
 ADDITIONAL ANALYTICAL
 PARAMETER SUMMARY

Sample ID	MW-205									MW-3								
	4/24/10	10/18/10	4/13/11	10/14/11	4/13/12	10/19/12	4/26/13	10/3/13	4/2/14	4/21/10	10/19/10	4/12/11	10/14/11	4/13/12	10/19/12	4/11/13	10/3/13	4/1/14
INORGANICS (mg/L)																		
Nitrite Nitrogen	2	<0.05	<20	0.058	<20	<10	<20	<20	<20	<0.50	<0.010	<0.010	<0.010	<0.1	<0.1	<10	<10	<10
Nitrate/Nitrite Nitrogen	NA	NA	NA	<0.05	<0.01	<1.0	NA	NA	NA	NA	NA	NA	<0.05	<0.010	<0.1	NA	NA	NA
Chloride	659	762	830	821	720	748	837	736	760	257	290	331	407	516	656	633	561	458
Dissolved Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	-	-	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	NA
Nitrate Nitrogen	<0.05	<4.0	<5.0	NA	NA	NA	<1	<1	<4	<0.50	<1.0	<1.0	NA	NA	NA	<1	<1	1 R
Total Alkalinity	2610	2750	<2.0	2900	2900	2980	2900	2900	3150	205	212	188	184	183	185	192	210	230
Sulfate	8.8	10.9	10.5	10	10.4	14.9	9.7	10.9	9.3	2.6	3.2	3.4	2.7	2.9	3.3	6.9	7.7	15
Total Sulfide	1.6	<1.0	<1.0	2.6	1.2	1.2	<1	<1	<1	1.5	<1.0	<1.0	<1.0	<1.0	1.1	1.1	<1	<1
Total Iron	117	10.5	103	106	NA	NA	NA	99.1	NA	21.8	6.7	7.79	18.2	NA	NA	NA	15.2	NA
Total Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)	20x Dil.		20x Dil	25x Dil														
Lactic Acid (C3)	<20	<1.0	<20	<25	<25	<20	<25	<25	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetic Acid (C2)	310	430 D	400	500	480	550	630	720	850	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propionic Acid (C3)	820	850 D	700	730	790	860	810	890	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyruvic Acid (C3)	<10	<0.5	<10	<13	<13	<10	<13	<13	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyric Acid (C4)	1800	2600 D	2400	3000	2400	2500	3100	2900	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA
FIELD PARAMETERS																		
Dissolved Oxygen (mg/L)	1	2.04	3.51	1.6	0.33	0.62	1.32	0.12	5.73	NA	NA	NA	NA	NA	NA	12.61	2.18	1.90
Redox (mV)	-113	-105	-82	-48	-105	-22	-40.7	-80.7	40.8	NA	NA	NA	NA	NA	NA	295.2	-94.4	73.6
Conductivity (mS)	12.9	6.75	6.98	0.81	10.52	7.19	7.28	6.86	0.387	NA	NA	NA	NA	NA	NA	2.13	1.93	1.94
Iron, dissolved (mg/L)	2.5	4.5	6	6	3	NA	5.5	6.5	4.5	0	0.3	NA	NA	NA	NA	0.5	0.0	0.5
Alkalinity (mg/L)	1460	1600	1840	2200	195	NA	NA	NA	NA	300	240	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (mg/L)	NA	NA	470	NA	NA	NA	NA	NA	NA	136	80	NA	NA	NA	NA	NA	NA	NA

TABLE IV
 COOPERVISION INCORPORATED
 ADDITIONAL ANALYTICAL
 PARAMETER SUMMARY

Sample ID	MW-501									MW-502									
	4/21/10	10/18/10	4/13/11	10/14/11	4/13/12	10/19/12	4/12/13	10/3/13	4/2/14	4/21/10	10/18/10	4/12/11	10/14/11	4/12/12	10/19/12	4/12/13	10/3/13	4/2/14	
INORGANICS (mg/L)																			
Nitrite Nitrogen	<0.50	<0.010	<0.100	<0.010	<60	<2.0	<100	<40	<200	<0.50	<1.0	<1.0	<0.010	<20	<1.0	<20	<20	<20	
Nitrate/Nitrite Nitrogen	NA	NA	NA	<0.05	<1	<1.0	NA	NA	NA	NA	NA	NA	<0.050	<1	<1.0	NA	NA	NA	
Chloride	7010	1460	7500	1940	2820	1940	4260	1860	7090	562	606	693	676	744	884	862	1030	1030	
Dissolved Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Organic Carbon	-	-	-	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	NA	
Nitrate Nitrogen	0.84	<1.0	<1.0	NA	NA	NA	<1	<1	4 R	<0.50	<0.010	<0.010	NA	NA	NA	<1	<1	1 R	
Total Alkalinity	229	381	262	424	309	365	217	410	211	800	751	670	730	656	722	510	489	460	
Sulfate	99.9	7.3	64.1	4.3	31.1	8.1	62.4	36.3	123	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	
Total Sulfide	<1.0	1.4	<1.0	2.2	6.2	<1.0	1.8	1	<1	5.8	1.8	<1.0	<1.0	1.3	<1.0	1.4	<1	<1	
Total Iron	13.9	6.37	11.8	4.6	NA	NA	NA	21	NA	186	26	571	637	NA	NA	NA	11.5	NA	
Total Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HRC COMPONENTS (mg/L)																			
Lactic Acid (C3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetic Acid (C2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Propionic Acid (C3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyruvic Acid (C3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Butyric Acid (C4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
FIELD PARAMETERS																			
Dissolved Oxygen (mg/L)	NA	0.02	0	0.4	2.11	0.32	6.25	2.00	0.79	0	0.17	0	0.3	0.2	0.11	0.24	0.07	0.0	
Redox (mV)	NA	-339	-122	-194	-82	-149	-34.9	-134.1	-48.2	-184	-131	-148	-157	-93	-102.5	-10.1	-143.6	-42.7	
Conductivity (mS)	NA	5.37	23.2	0.76	9.31	6.69	12.18	6.28	19.92	9.64	3.13	2.04	0.36	3.17	3.34	3.36	3.67	3.87	
Iron, dissolved (mg/L)	1.3	1.6	4.6	1	NA	NA	4.25	6.0	3.5	0	1	4.2	NA	1	NA	1.5	6.0	NA	
Alkalinity (mg/L)	260	400	270	500	60	NA	NA	NA	NA	2400	740	650	110	1820	NA	NA	NA	NA	
Carbon Dioxide (mg/L)	116	225	194	37.9	217.5	NA	NA	NA	NA	624	NA	3838	NA	NA	NA	NA	NA	NA	

TABLE IV
 COOPERVISION INCORPORATED
 ADDITIONAL ANALYTICAL
 PARAMETER SUMMARY

Sample ID	OWS-302-S									MW-202	BAP-01	BAP-02
	4/21/10	10/18/10	4/13/11	10/14/11	4/13/12	10/19/12	4/12/13	10/3/13	4/2/14	4/1/14	4/2/14	4/2/14
INORGANICS (mg/L)												
Nitrite Nitrogen	<0.50	<1.0	<100	0.031	<1.0	<0.020	<50	<100	<100	<100	<10	<10
Nitrate/Nitrite Nitrogen	NA	NA	NA	<0.050	<0.060	<0.010	NA	NA	NA	NA	NA	NA
Chloride	3070	2880	3670	3200	3300	3090	2630	2720	2790	3560	406	434
Dissolved Organic Carbon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	-	-	-	-	-	-	-	-	NA	<1	6	14.5
Nitrate Nitrogen	<5.0	<0.020	<2.0	<0.050	NA	NA	<1	<1	<1	1.7	<1	<1
Total Alkalinity	1210	1150	622	958	772	608	676	669	749	150	230	260
Sulfate	44.9	2.2	8.7	<2.0	<2.0	<2.0	<2	<2	2.4	424	328	64.9
Total Sulfide	1.2	<1.0	4.2	<1.0	<1.0	<1.0	1.4	<1	<1	<1	1.5	1.4
Total Iron	18.1	79.6	52.5	50.6	NA	NA	NA	18.7	NA	NA	NA	NA
Total Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)												
Lactic Acid (C3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Acetic Acid (C2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	7.3	9.7
Propionic Acid (C3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	6.5	1.6
Pyruvic Acid (C3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	<0.5	<0.5
Butyric Acid (C4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	<2	<2
FIELD PARAMETERS												
Dissolved Oxygen (mg/L)	0.86	3.08	4.66	0.7	4.71	0.48	0.64	0.08	0.00	1.26	0.67	0.04
Redox (mV)	-63	-100	-156	-128	-17	-71.8	-68.1	-136.3	-27.0	157.2	-186.2	-210.5
Conductivity (mS)	9	12.8	17.6	1.2	7.12	9.84	3.52	8.50	9.27	12.02	2.22	2.08
Iron, dissolved (mg/L)	1.1	5.8	1.6	2.6	5	NA	4.25	7.0	3.5	0.0	0.0	NA
Alkalinity (mg/L)	920	1000	900	1000	315	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (mg/L)	526	589	1050	150	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations

NS - Not Sampled

NA - Not analyzed or results not determined due to field conditions (e.g. - water too turbid to obtain field parameters).

ND - Not detected in field tests

TOC - Total Organic Carbon

D - Diluted

R - Result rejected. See Data Usability Summary Report.

* - The dissolved oxygen values detected may be a result of malfunctioning field equipment and may not be indicative of actual aquifer concentration.
 1. Due to the conditions at wells MW-3, OWD-302-D, OWS-302-S, and MW-501 (poor well recharge during purging), dissolved oxygen an

Table V
Annual SSD System Monitoring

Location (Site/Facility Name): CooperVision
 Location (Address): Scottsville, NY
 Client: CooperVision

Date: 4/3/2014
 Performed By: D. Nostrant/D. Keller
 Job Number: 70665-018

Test Point	4/22-4/25/2013 Vacuum Reading ("WC)	10/02/13 Vacuum Reading ("WC)	4/03/2014 Vacuum Reading ("WC)
T-1	0.021	0.017	0.017
T-2	*	*	*
T-3	0.446	0.476	0.434
T-4	0.042	0.032	0.030
T-5	0.045	0.063	0.043
T-6	0.057	0.059	0.060
T-7**	0.007	0.000	0.000
T-8	0.028	0.038	0.032
T-9***	0.026	0.017	0.023
T-10	0.027	0.021	0.021
T-11	0.402	0.753	0.744
T-12	0.011	0.014	0.017
T-13	0.009	0.007	0.009
T-14	0.014	0.015	0.019
T-15	0.029	0.034	0.036
T-16	0.021	0.021	0.027
T-17	0.019	0.019	0.024
T-18	0.040	0.014	0.014

Suction Point	4/22-4/25/2013 Vacuum Reading ("WC)	10/02/13 Vacuum Reading ("WC)	4/03/2014 Vacuum Reading ("WC)
S-1	3.8	3.8	3.8
S-2	3.7	3.6	3.8
S-3	1.6	1.5	1.5
S-4/5	2.4	2.2	2.1
S-6	3.6	3.5	3.6
S-7	1.7	1.6	1.6

* T-2 is not a valid test point

** Switchgear Room, exterior doors open

*** Mold Repair Room, exterior doors open

Visual Inspection of System: All test points were accessible.
Recommendation Actions: None
Description of Past Year Activities: None

Table VI
EVO Injection Report

Site/Facility Name: CooperVision
 Location (Address): Scottsville, NY
 Client: CooperVision

Job Number: 70665-019

Injection Point	Date: 11/26/13		Date: 12/03/13		Date: 12/06/13		Date: 12/11/13		Date: 12/17/13	
	Weather: Overcast, 30's		Weather: Sunny, 40's		Weather: Overcast, 30's		Weather: Cloudy, 20's		Weather: overcast, 20's	
	Personnel: MR		Personnel: MR/DBK		Personnel: DBK		Personnel: DBK		Personnel: DBK	
	Depth to Water (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)
IP-01	6.55	0.0	6.52	3.5	6.23	3.0	3.82	2.5	1.18	0.0
IP-02	6.30	0.0	6.23	3.5	5.91	3.0	3.95	2.5	1.25	0.0
IP-03	5.41	0.0	5.25	3.5	4.90	3.0	4.78	2.5	3.93	0.0
IP-04	5.10	0.0	5.10	3.5	4.40	3.0	4.33	2.5	3.20	0.0
IP-05	6.50	0.0	6.48	3.5	4.75	3.0	3.51	2.5	0.60	0.0
IP-06	6.46	0.0	6.08	3.5	5.60	3.0	3.65	2.5	1.63	0.0
IP-07	5.33	0.0	5.29	3.5	4.85	3.0	4.26	2.5	2.61	0.0
BAP-01 (Water level Only)	6.37	NA	6.31	NA	nd	NA	6.26	NA	6.36	NA
BAP-02 (Water level Only)	5.86	NA	5.78	NA	nd	NA	5.79	NA	5.85	NA
Total Added Per Day (gal):	0.00		24.50		21.00		17.50		0.00	
Notes:	Pre-injection water levels.		Also added ~2 oz of Vitamin B12 to each IP.		Also added ~2 oz of Vitamin B12 to each IP.		Also added ~2 oz of Vitamin B12 to each IP.		IP-04 road box destroyed by snowplow.	
							Water level meter will read top of oil.		Not enough room in riser of IP-05 to add EVO today.	

Table VI
EVO Injection Report

Site/Facility Name: CooperVision
 Location (Address): Scottsville, NY
 Client: CooperVision

Job Number: 70665-019

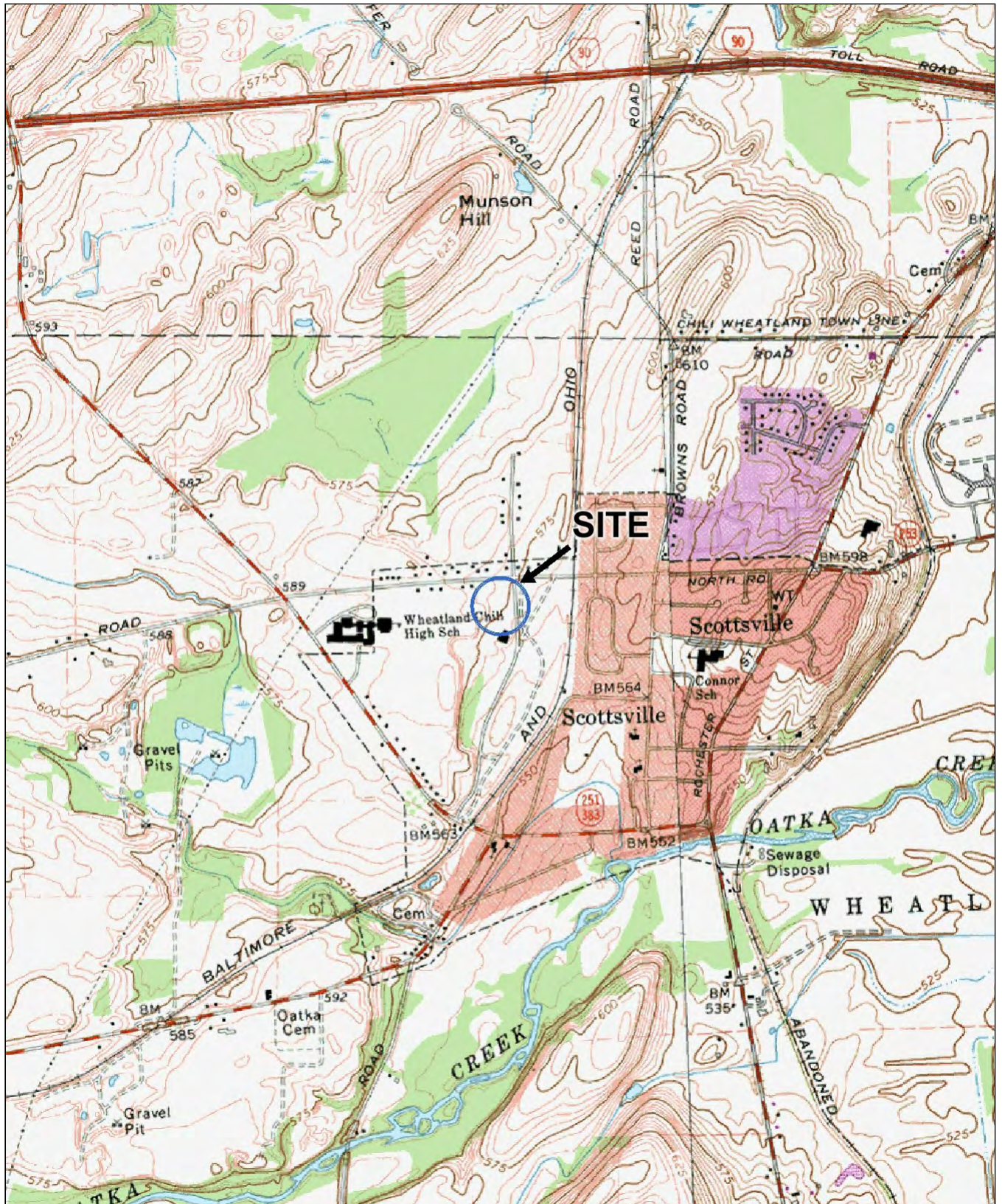
Injection Point	Date: 12/19/13		Date: 12/23/13		Date: 01/02/14		Date: 01/14/14		Date: 01/17/14	
	Weather: sunny, 40's		Weather: cloudy, 30's		Weather: snow, 10's		Weather: overcast, 40's		Weather: sunny, 30's	
	Personnel: DBK		Personnel: DBK		Personnel: DBK		Personnel: DBK		Personnel: DBK	
	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)
IP-01	1.45	0.0	1.76	0.0	2.40	1.5	1.90	1.0	0.74	0.3
IP-02	1.40	0.0	1.62	0.0	2.10	1.0	1.53	0.8	0.71	0.3
IP-03	3.95	0.0	4.00	0.0	4.17	2.5	2.69	1.6	1.19	0.6
IP-04	2.90	0.0	3.00	0.0	3.20	2.0	1.65	0.9	0.43	0.1
IP-05	1.10	0.0	1.25	0.0	1.75	1.0	1.45	0.7	0.67	0.2
IP-06	1.80	0.0	1.95	0.0	2.44	1.5	1.33	0.7	0.57	0.2
IP-07	2.72	0.0	3.00	0.0	3.45	2.0	1.88	1.2	0.62	0.2
BAP-01 (Water level Only)	6.35	NA	5.17	NA	6.10	NA	5.94	NA	6.09	NA
BAP-02 (Water level Only)	5.90	NA	4.55	NA	5.55	NA	6.50	NA	5.53	NA
Total Added Per Day (gal):	0.00		0.00		11.50		6.84		1.84	
Notes:	Not enough room in riser of IP-05 to add EVO today.		Nothnagle replaced road box for IP-04		Pressurized IP-05 to 100 psi for ~30 min. Level dropped to 1.85 ft. Concluded that pressurizing is not effective.		No Vitamin B12 added today.		Added ~1 oz of Vitamin B12 to each well.	
			Not enough room in riser of IP-05 to add EVO today.		No Vitamin B12 added today		Noted some diluted EVO at BAP-02 today.		Noted EVO at BAP-02 today.	
									Noted trace EVO at BAP-01 today.	

Table VI
EVO Injection Report

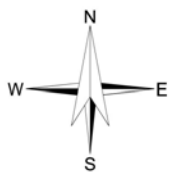
Site/Facility Name: CooperVision
 Location (Address): Scottsville, NY
 Client: CooperVision

Job Number: 70665-019

Injection Point	Date: 01/30/14		Date: 02/14/14		Date: 03/11/14		Date: 04/17/14		Date:		Total
	Weather: P. Cloudy, 25		Weather: cloudy, 25		Weather: Sunny, 48		Weather: Sunny, 55 F		Weather:		
	Personnel: DMN		Personnel: DBK		Personnel: DBK		Personnel: TGR		Personnel:		
	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	Depth to Water/Oil (TOR)	Injection Amount (gallons)	
IP-01	1.70	1.0	1.25	0.6	0.85	0.4	0.66	0.4			13.9
IP-02	1.40	0.8	1.00	0.5	1.20	0.6	0.75	0.5			13.2
IP-03	1.40	0.8	0.80	0.3	0.73	0.3	0.70	0.5			15.0
IP-04	0.90	0.5	0.55	0.2	1.24	0.6	0.1 (tor)	0.0			13.2
IP-05	1.40	0.8	1.10	0.5	0.75	0.3	1.06	0.5			12.8
IP-06	1.00	0.5	0.75	0.3	0.88	0.4	0.54	0.3			12.7
IP-07	1.00	0.5	0.80	0.3	0.68	0.3	0.33	0.2			13.5
BAP-01 (Water level Only)	6.40	NA	6.35	NA	6.28	NA	5.43	NA		NA	NA
BAP-02 (Water level Only)	5.68	NA	5.90	NA	5.85	NA	5.01	NA		NA	NA
Total Added Per Day (gal):	4.90		2.70		2.90		2.40				94.24
Notes:	Noted milky film on water level meter probe during water level measurements at BAP-1 and BAP-2.		Added a capfull of Vitamin B12 to each well.		Added a capfull of Vitamin B12 to each well.		Added a capfull of Vitamin B12 to each well.				
					Noted EVO at BAP-02 today.		Noted EVO at BAP-02 today. No EVO BAP-01.				
					No EVO at BAP-01.		IP-04 EVO at top of riser, none added				



SITE COORDINATES: 43°1'39"N 77°45'27"W



U.S.G.S. QUADRANGLE: CLIFTON, NY

HALEY & ALDRICH

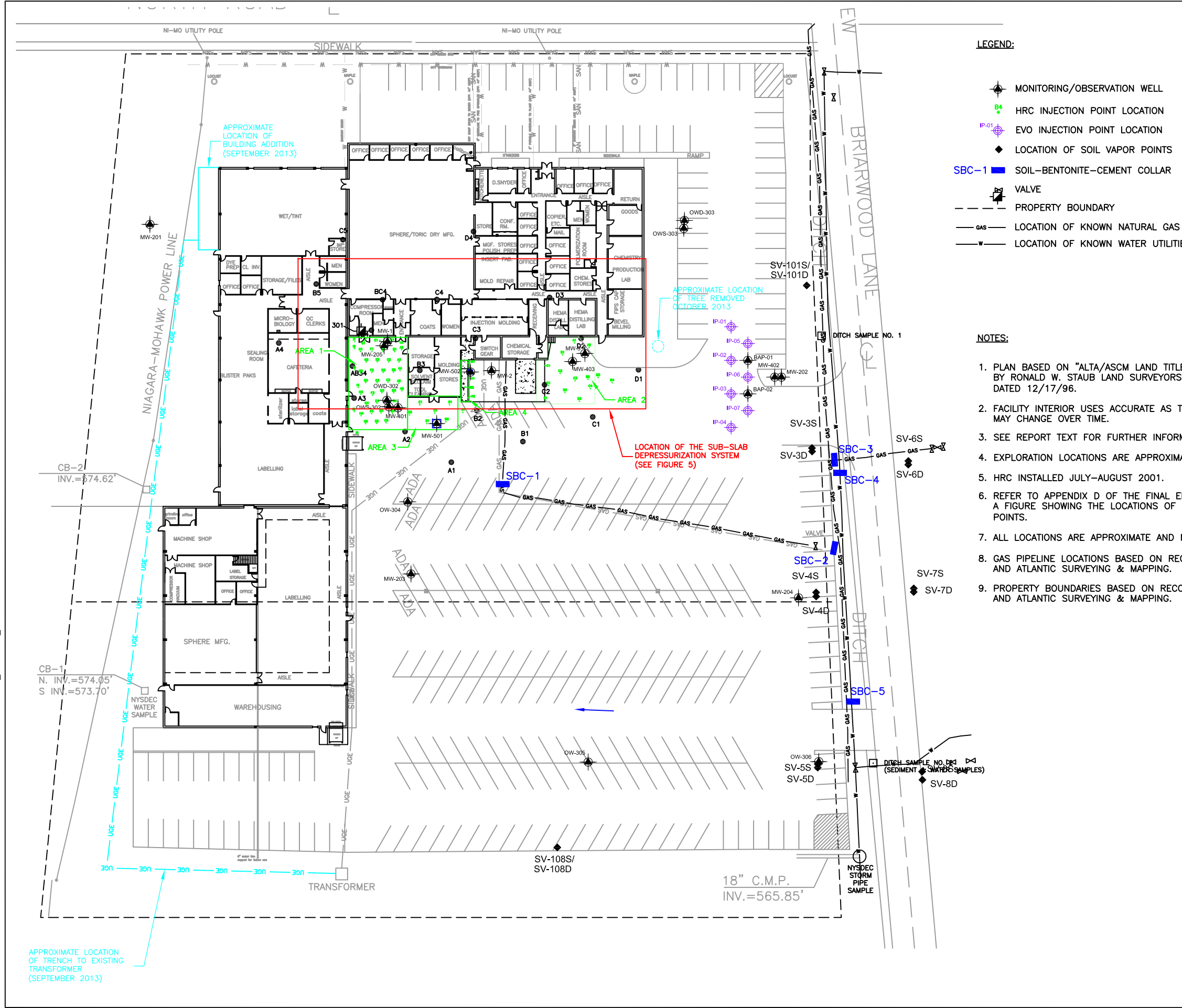
COOPERVISION, INC.
SCOTTSVILLE, NEW YORK

PROJECT LOCUS

SCALE: 1:24,000
MAY 2010

FIGURE 1

I:\ROCCOMMON\70665 COOPERVISION\018-ONGOING SUPPORT\CAD\2014-0528_70665-018_SITE PLAN.DWG

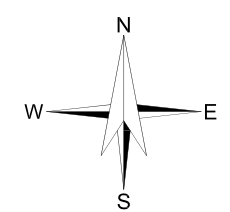


LEGEND:

- MONITORING/OBSERVATION WELL
- HRC INJECTION POINT LOCATION
- EVO INJECTION POINT LOCATION
- LOCATION OF SOIL VAPOR POINTS
- SOIL-BENTONITE-CEMENT COLLAR
- VALVE
- PROPERTY BOUNDARY
- LOCATION OF KNOWN NATURAL GAS PIPELINE UTILITIES
- LOCATION OF KNOWN WATER UTILITIES

NOTES:

1. PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 12/17/96.
2. FACILITY INTERIOR USES ACCURATE AS TO DATE OF SURVEY, BUT MAY CHANGE OVER TIME.
3. SEE REPORT TEXT FOR FURTHER INFORMATION.
4. EXPLORATION LOCATIONS ARE APPROXIMATE.
5. HRC INSTALLED JULY-AUGUST 2001.
6. REFER TO APPENDIX D OF THE FINAL ENGINEERING REPORT FOR A FIGURE SHOWING THE LOCATIONS OF OFFSITE SAMPLE VAPOR POINTS.
7. ALL LOCATIONS ARE APPROXIMATE AND NOT TO SCALE
8. GAS PIPELINE LOCATIONS BASED ON RECORDS PROVIDED BY RG&E AND ATLANTIC SURVEYING & MAPPING.
9. PROPERTY BOUNDARIES BASED ON RECORDS FROM MONROE COUNTY AND ATLANTIC SURVEYING & MAPPING.



HALEY & ALDRICH COOPERVISION FACILITY
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

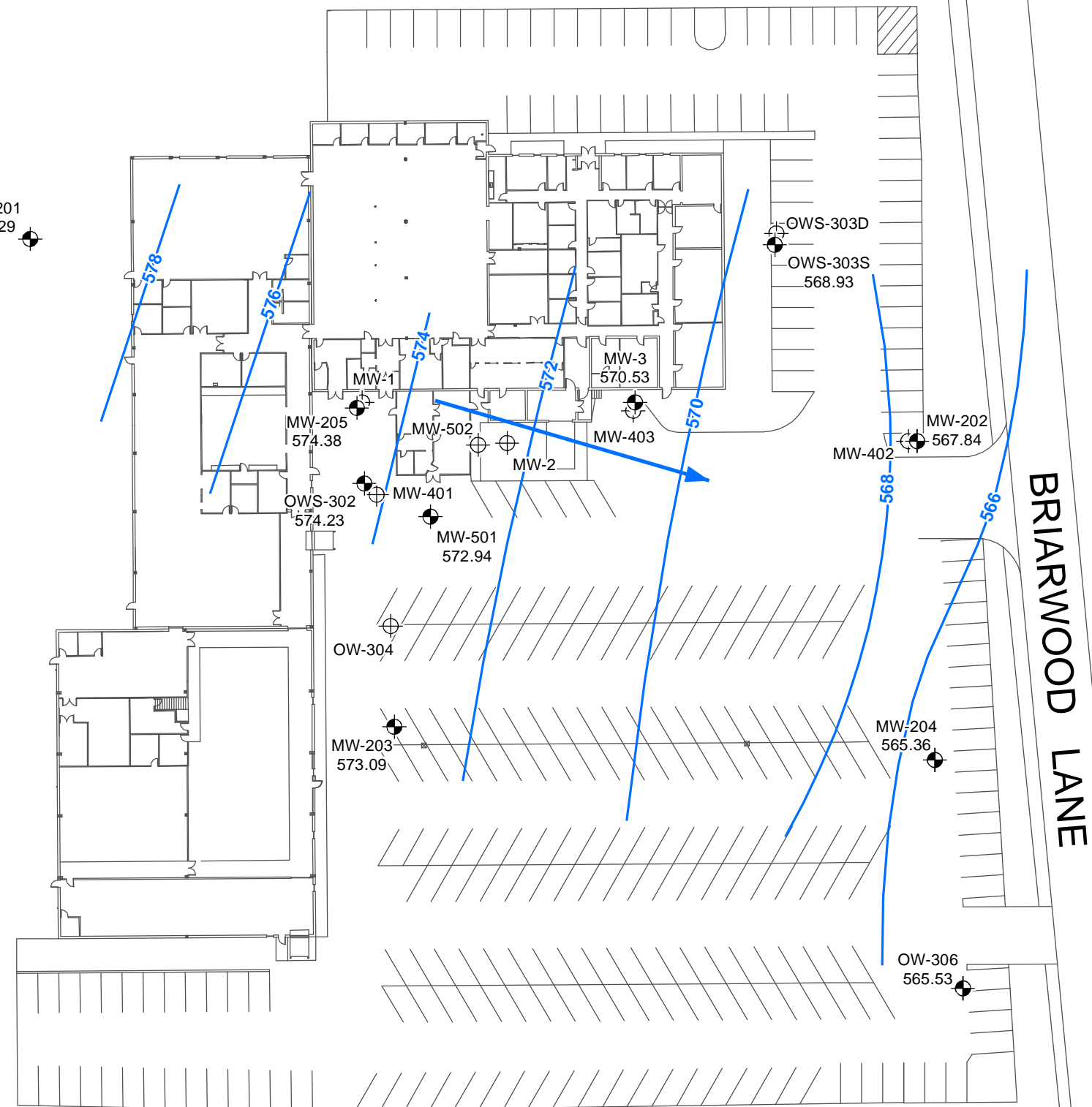
SITE PLAN

SCALE: AS SHOWN
MAY 2014




FIGURE 2

G:\70665 CooperVision\018-Ongoing Support\GISMap Projects\2014_0527_TJV_2013AprGWContours_BLD1.mxd

NORTH ROAD

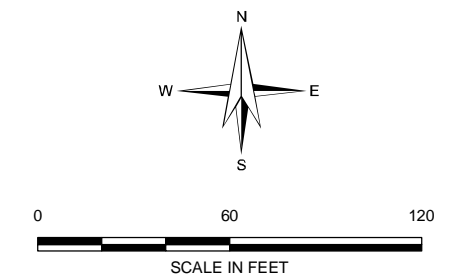


LEGEND:

-  WELLS INCLUDED IN CONTOURS.
-  WELLS NOT INCLUDED IN CONTOURS DUE TO SCREEN DEPTH, INCOMPLETE WELL INFORMATION, OR POOR WELL RECHARGE.
-  GROUNDWATER FLOW DIRECTION

NOTES:

1. PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 17 DECEMBER 1996.
2. GROUNDWATER CONTOURS ARE BASED ON DATA COLLECTED ON 1 APRIL 2013. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
3. EXPLORATION LOCATIONS ARE APPROXIMATE.



HALEY & ALDRICH COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

GROUNDWATER CONTOUR PLAN
(APRIL 2013)

SCALE: AS SHOWN
JUNE 2014

FIGURE 3

G:\70665 CooperVision\018-Ongoing Support\GISMap Projects\2014_0527_TJV_2013OctGWContours_BLD1.mxd

NORTH ROAD

BRIARWOOD LANE

MW-201
573.08

OWS-303D
OWS-303S
568.51

MW-3
569.94

MW-205
573.71

OWS-302
572.55

OWD-302D
OWD-302S
573.47

MW-401

MW-502

MW-501
571.47

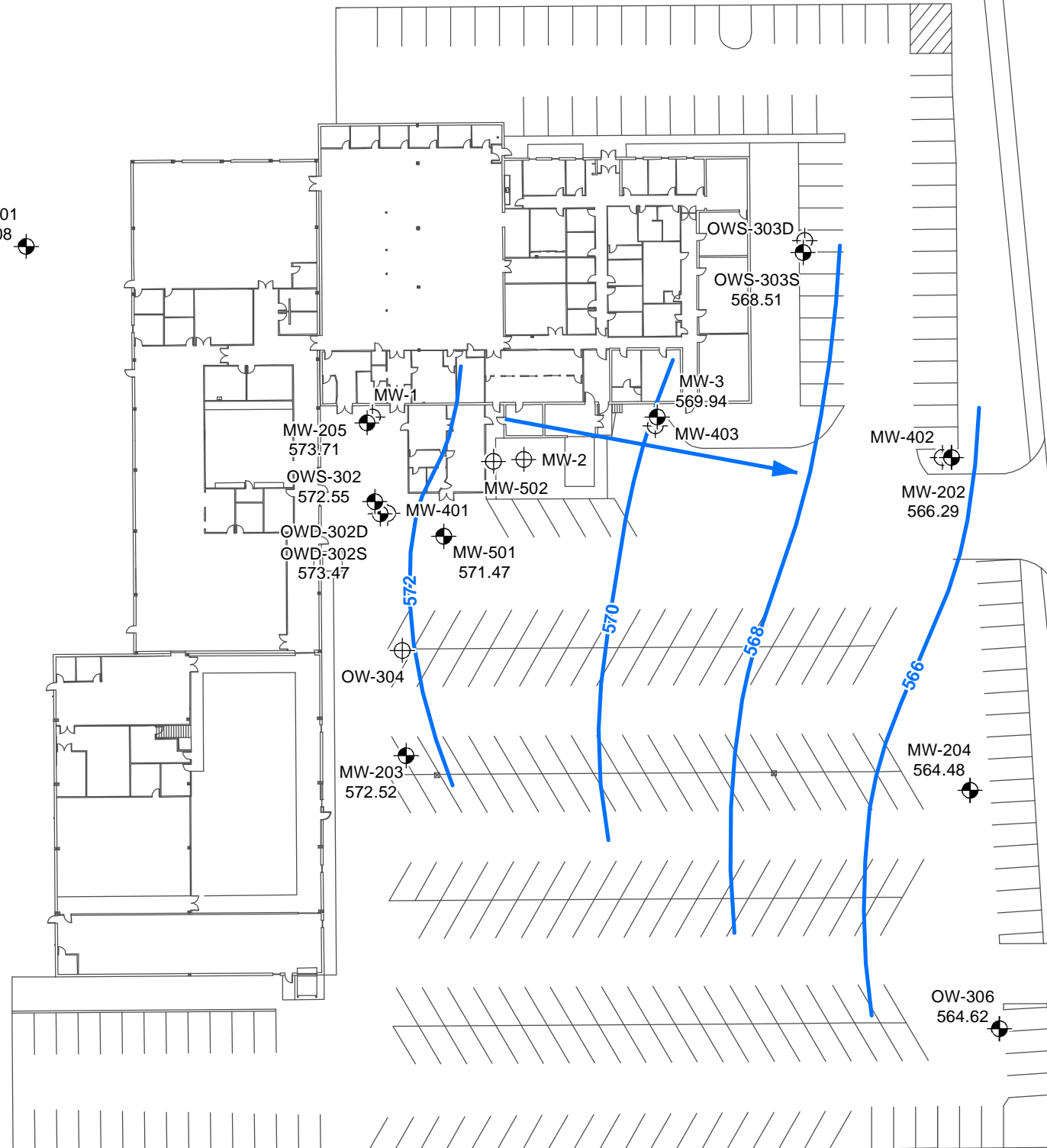
MW-402
566.29

OW-304




MW-203
572.52

MW-204
564.48

OW-306
564.62

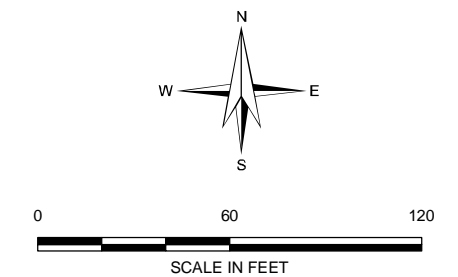


LEGEND:

-  WELLS INCLUDED IN CONTOURS.
-  WELLS NOT INCLUDED IN CONTOURS DUE TO SCREEN DEPTH, INCOMPLETE WELL INFORMATION, OR POOR WELL RECHARGE.
-  GROUNDWATER FLOW DIRECTION

NOTES:

1. PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 17 DECEMBER 1996.
2. GROUNDWATER CONTOURS ARE BASED ON DATA COLLECTED ON 3 OCTOBER 2013. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
3. EXPLORATION LOCATIONS ARE APPROXIMATE.



HALEY & ALDRICH COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

GROUNDWATER CONTOUR PLAN
(OCTOBER 2013)

SCALE: AS SHOWN
JUNE 2014

FIGURE 4

G:\70665 CooperVision\018-Ongoing Support\GISMap Projects\2014_0527_TJV_2014AprGWContours_BLD1.mxd

NORTH ROAD

BRIARWOOD LANE

MW-201
577.86

OWS-303D
OWS-303S
569.2

MW-3
570.76

MW-205
574.59

OWS-302
574.75

OWD-302D
OWD-302S

MW-401

MW-501
573.23

OW-304

MW-203
573.47

MW-403

BAP-01

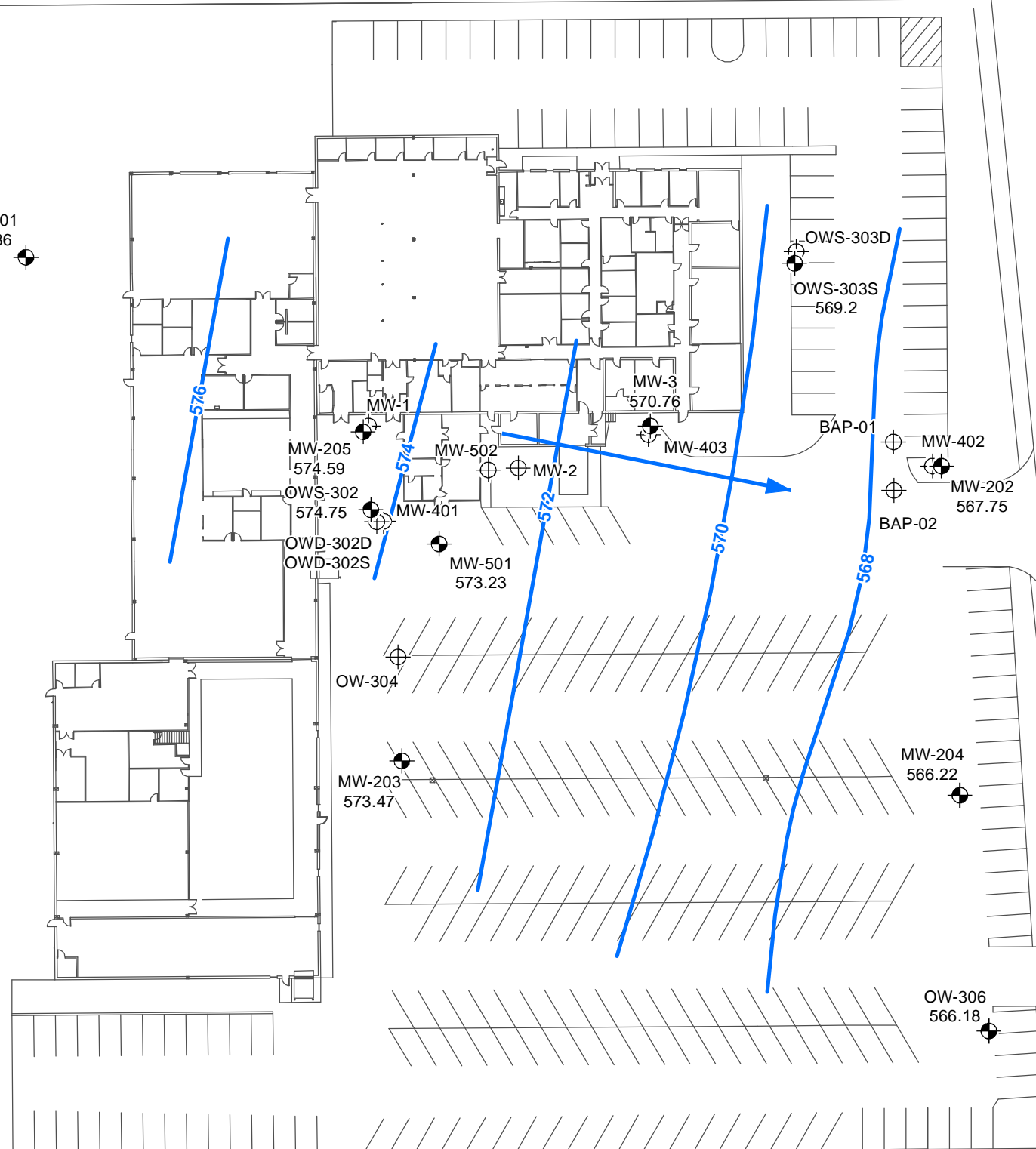
BAP-02

MW-402




MW-202
567.75

MW-204
566.22

OW-306
566.18

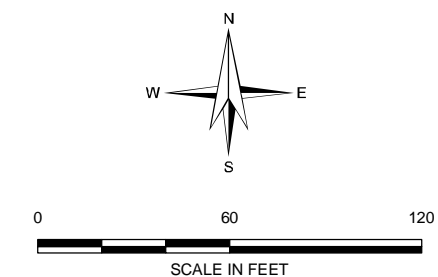


LEGEND:

-  WELLS INCLUDED IN CONTOURS.
-  WELLS NOT INCLUDED IN CONTOURS DUE TO SCREEN DEPTH, INCOMPLETE WELL INFORMATION, POOR WELL RECHARGE, OR PROXIMITY TO INJECTION WELLS. (OWD-302S NOT INCLUDED DUE TO SUSPECT DATA.)
-  GROUNDWATER FLOW DIRECTION

NOTES:

1. PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 17 DECEMBER 1996.
2. GROUNDWATER CONTOURS ARE BASED ON DATA COLLECTED ON 1 APRIL 2014. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
3. EXPLORATION LOCATIONS ARE APPROXIMATE.



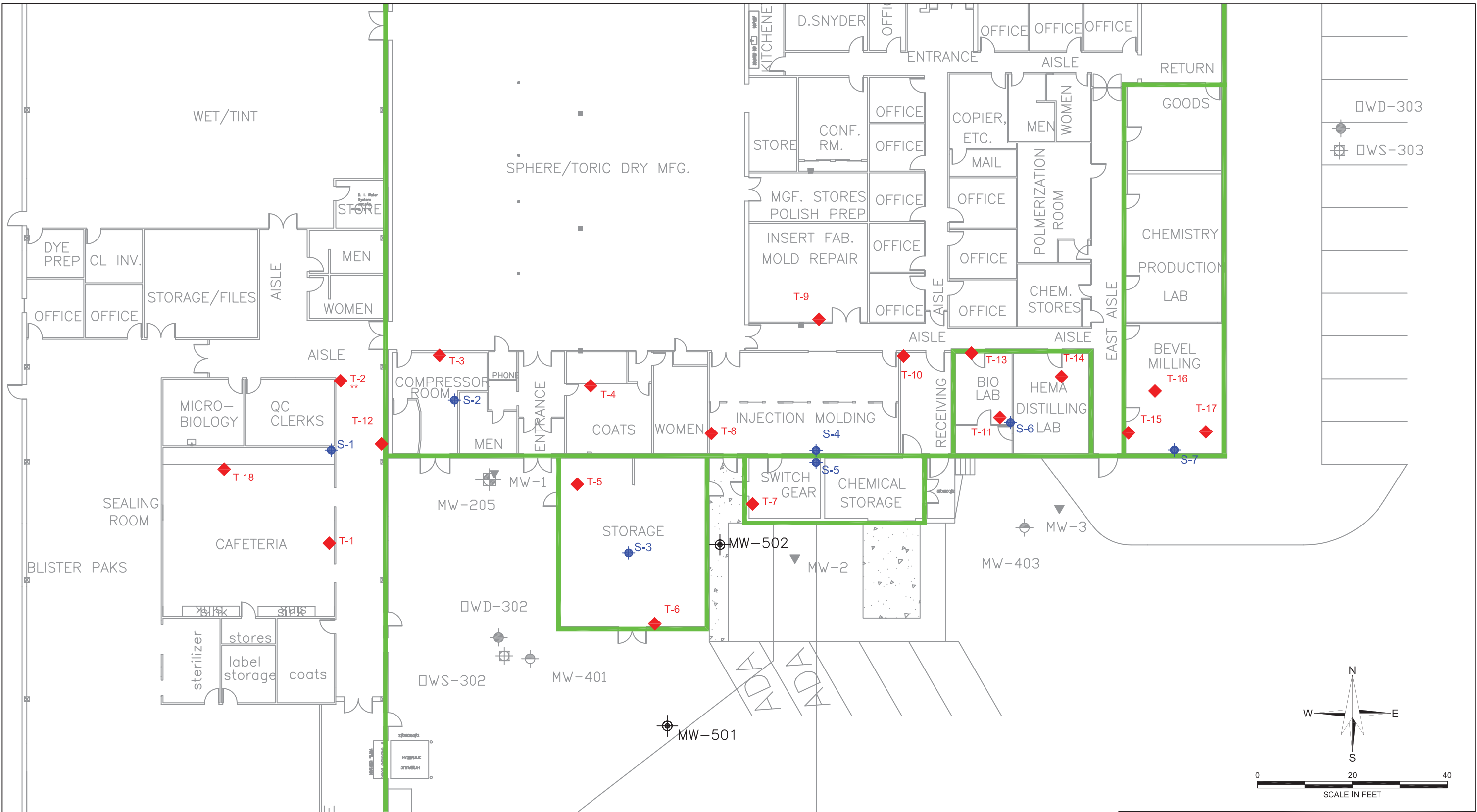
HALEY & ALDRICH COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

GROUNDWATER CONTOUR PLAN
(APRIL 2014)

SCALE: AS SHOWN
JUNE 2014

FIGURE 5

G:\PROJECTS\70665018 - ONGOING SUPPORT\CAD\2012-02\14_70665-018_SUB-SLAB DEPRESSURIZATION SYSTEM.DWG



THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

- ◆ S-3 APPROXIMATE SUCTION POINT LOCATION
- ◆ T-16 APPROXIMATE TEST POINT LOCATION
- APPROXIMATE LOCATION OF SUB-SLAB BARRIERS AFFECTING THE SYSTEM

NOTE:
1. ** T-2 IS NOT A VALID TEST POINT.

HALEY & ALDRICH SUB-SLAB DEPRESSURIZATION SYSTEM
NORTH ROAD
SCOTTSVILLE, NEW YORK

SUB-SLAB DEPRESSURIZATION SYSTEM

SCALE: AS SHOWN
FEBRUARY 2012

FIGURE 6

APPENDIX A

Institutional and Engineering Controls Certification 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. V00175		
Site Name 711 North Road (Cooper Vision)		
Site Address: 711 North Road	Zip Code: 14546-	
City/Town: Scottsville		
County: Monroe		
Site Acreage: 5.5		
Reporting Period: May 16, 2013 to May 16, 2014		
		YES NO
1. Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? Building Addition-See PRR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? Building Permit-See PRR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2
		YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.		
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
187.170-1-18	CooperVision, Inc	Ground Water Use Restriction Landuse Restriction Site Management Plan

Deed Restriction with following provisions:
 1) Site use limited to Commercial and Industrial Uses;
 2) groundwater use restriction;
 3) site disturbance must comply with Site Management Plan; and
 4) annual certification.

187.170-1-18.1	CooperVision, Inc.	Ground Water Use Restriction Landuse Restriction Site Management Plan
----------------	--------------------	---

Deed Restriction with following provisions:
 1) Site use limited to Commercial and Industrial Uses;
 2) groundwater use restriction;
 3) site disturbance must comply with Site Management Plan; and
 4) annual certification.

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
187.170-1-18	Cover System Subsurface Barriers Vapor Mitigation
187.170-1-18.1	Cover System Subsurface Barriers Vapor Mitigation

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 complete.

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.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00175

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 Gary Adams at CooperVision, 711 North Road
Scottsville, New York
print name print business address

am certifying as Designated Representative for Owner (Owner or Remedial Party)

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


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

6/10/14
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.

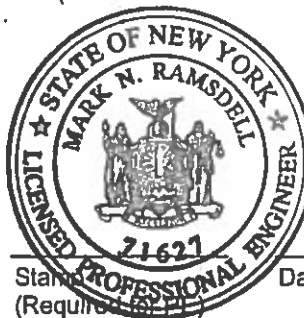
Haley & Aldrich of New York,

I Mark N. Ramsdell at Rochester, New York
print name print business address

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

Mark N. Ramsdell

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



Stamp: PROFESSIONAL ENGINEER
(Required for PE)
Date: 6/11/14

APPENDIX B

Building Addition Correspondence and Documentation

Ramsdell, Mark

From: Ramsdell, Mark
Sent: Wednesday, August 21, 2013 11:29 AM
To: 'Frank Sowers'
Cc: cmarraro@bakerlaw.com; Dick, Vince; Chuck Rogers (CRogers@coopervision.com); Gary Adams (GAdams2@coopervision.com); John Hogan (jhogan@coopervision.com)
Subject: RE: CooperVision #V00175 - Potential Addition to Building
Attachments: 2013-0625_TP MAP.pdf; 2013-0625_TestPit_Logs.PDF; Table I_Analytical Soil Results.pdf; R1304642.PDF; 2013-0625-CooperVision Dust Trak II Data.pdf

Frank – on 25 June, we setup the CAMP monitoring and completed the test pits and collected a composite soil from six test pits. All soil screening with the PID was ND. I've attached for your review the following:

- Site sketch
- Test pit logs (6)
- Table 1 – soil sample results
- Complete lab data package
- PDF of upwind and downwind Dustrak data (particulate and PID)

We request, based on the above data:

- CAMP monitoring during building addition not be completed
- Soil screening during construction not be required
- Soil vapor evaluation not be required

We will provide required documentation of any backfill materials brought onsite in the annual Periodic Review Report (PRR). Any material excavated for the building addition may be left onsite or disposed of accordingly.

Construction is scheduled to start on 16 September, we request a timely response.

Any questions, please feel free to contact us.

Thanks,
Mark

Mark N. Ramsdell, P.E., CHMM
Senior Construction Project Manager
Senior Engineer
Haley & Aldrich of New York
200 Town Centre Drive, Suite 2
Rochester, NY 14623
Tel: 585.321.4262
Fax: 585.486.8262
mramsdell@HaleyAldrich.com
HaleyAldrich.com

From: Frank Sowers [mailto:flsowers@gw.dec.state.ny.us]
Sent: Thursday, June 20, 2013 1:58 PM
To: Ramsdell, Mark
Cc: cmarraro@bakerlaw.com; Bernie Hallatt(bhallatt@coopervision.com); Bart Putzig; James Mahoney; Dick, Vince; Julia Kenney
Subject: Re: CooperVision #V00175 - Potential Addition to Building

Mark,

Thank you for the notice regarding the proposed building addition at the CooperVision site. DEC and DOH have reviewed your request for relief from various elements the SMP and I will address each request separately below.

1. Request to not require 40 hr trained personnel - This is an OSHA requirement and the DEC cannot provide relief for applicable OSHA requirements. It is the responsibility of CooperVision and their agents to determine the applicability of this regulation.

2. Request to not require a HASP - See response to #1 above.

3. Request to not require CAMP monitoring - Please follow the CAMP when the test pits and soil samples are being implemented and provide all of the test pit data (CAMP results, soil sample results, soil screening results, etc) to DEC and DOH. Once we receive those results we can consider whether it is appropriate or not to continue the requirements of the SMP Excavation Plan during the construction of the building addition.

4. Request to not do soil screening, if favorable results from test pitting - DEC and DOH will further review this request upon receipt of the test pit information.

5. Request to do not imported backfill testing, as long as it is from a known borrow source with approved mining permit - Per DER-10 (Section 5.4(e)5, imported backfill is exempt from analytical testing under the following conditions:

- a) the material is gravel, rock or stone, consisting of virgin material from a permitted mine or quarry; and
- b) it contains less than 10% by weight material which would pass through a size 80 sieve.

Please provide me with either the backfill analytical data or the documentation that the backfill meets the above criteria for exemption.

6. Request to not perform a soil vapor evaluation - DEC and DOH will further review this request upon receipt of the test pit information.

I hope this meets your needs for implementing the next step in this project. Please feel free to contact me if you have any questions regarding these responses to your requests.

Frank Sowers, P.E.
NYSDEC - Region 8
Phone: (585) 226-5357

>>> "Ramsdell, Mark" <MRamsdell@haleyaldrich.com> 6/6/2013 2:04 PM >>>

Frank - on behalf of CooperVision, please consider this 30-day notification for CooperVision to construct a 12 x 40 ft. addition to the northwest corner of their building. See attached sketch. We are still waiting for more details on the addition. From our preliminary discussion with their Construction Manager (LeChase) the following is known:

- 12 ft. x 40 ft., slab on grade, metal building addition
- Approx. 5 ft. deep foundation and thickened slab
- Approx. 100 cy of removed material, mostly grass and topsoil
- Approx. 80 cy of imported crusher run for slab subbase
- This will be used for HVAC equipment to support new process lines coming into the plant
- Only occasional plant personnel to do maintenance on equipment in the space

They are working on design, budgeting and local permits for this project and the intent is to break ground within the next 4-5 weeks. This area has not been a concern in regards to contamination. There is a upgradient monitoring well MW-201, which is not in the sampling program.

We are planning on a couple test pits ahead of time to pre-screen and sample soils in the foundation footprint, but then would like to request relief on a few of the requirements from the SMP Excavation Plan (EP) pending those pre-screen/sample results :

- 40 hr trained personnel not required
- HASP not required
- No CAMP monitoring
- No soil screening, if favorable results from test pitting
- Imported backfill testing, as long as it is from a known borrow source with approved mining permit.
- No soil vapor evaluation

Please review and comment on our approach. If a more formal notification is required we can submit a letter for you. Please advise.

Thanks,
Mark

Mark N. Ramsdell, P.E., CHMM
Senior Construction Project Manager
Senior Engineer
Haley & Aldrich of New York
200 Town Centre Drive, Suite 2
Rochester, NY 14623
Tel: 585.321.4262
Fax: 585.486.8262
mramsdell@HaleyAldrich.com
HaleyAldrich.com

Report Order	Location Group	Location Name	Sample Name	Sample Date	Sample Time	Sample Type	Sample Depth (bgs)			
							NYDEC_375_2006-12_RU-PGW	NYDEC_375_2006-12_URU		- - TP01-TP06 TP-COMP-062513 6/25/2013 11:30:00 N 5 - 5 (ft)
Inorganic Compounds (mg/kg)										
Arsenic, Total				16				13		24 ^[AB]
Barium, Total				820				350		436 ^[B]
Beryllium, Total				47				7.2		3.2 U
Cadmium, Total				7.5				2.5		5.3 U
Chromium III (Trivalent)				-				30		103 ^[B]
Chromium VI (Hexavalent)				19				1		4.3 U
Chromium, Total				-				-		103
Copper, Total				1720				50		117 ^[B]
Cyanide				40				27		0.098
Lead, Total				450				63		58
Manganese, Total				2000				1600		3630 ^[AB]
Mercury, Total				0.73				0.18		0.033 U
Nickel, Total				130				30		115 ^[B]
Selenium, Total				4				3.9		11 U
Silver, Total				8.3				2		11 U
Zinc, Total				2480				109		312 ^[B]
Other (percent)										
Total Solids				-				-		91.5
PCBs (ug/kg)										
Aroclor-1016 (PCB-1016)				-				-		36 U
Aroclor-1221 (PCB-1221)				-				-		73 U
Aroclor-1232 (PCB-1232)				-				-		36 U
Aroclor-1242 (PCB-1242)				-				-		36 U
Aroclor-1248 (PCB-1248)				-				-		36 U
Aroclor-1254 (PCB-1254)				-				-		36 U
Aroclor-1260 (PCB-1260)				-				-		36 U
Pesticides (ug/kg)										
2,4,5-T				1900				-		11 U
2,4,5-TP (Silvex)				3800				3800		11 U
2,4-Dichlorophenoxyacetic acid (2,4-D)				500				-		11 U
4,4'-DDD				14000				3.3		1.9 U
4,4'-DDE				17000				3.3		1.9 U
4,4'-DDT				136000				3.3		1.9 U
Aldrin				190				5		1.9 UJ
alpha-BHC				20				20		1.9 UJ
alpha-Chlordane				2900				94		1.9 U
beta-BHC				90				36		1.9 U
delta-BHC				250				40		1.9 U
Dicamba				-				-		11 U
Dieldrin				100				5		1.9 U
Endosulfan I				102000				2400		1.9 U
Endosulfan II				102000				2400		1.9 U
Endosulfan sulfate				1000000				2400		1.9 U
Endrin				60				14		1.9 U
Endrin aldehyde				-				-		1.9 UJ
Endrin ketone				-				-		1.9 U
gamma-BHC (Lindane)				100				100		1.9 UJ
gamma-Chlordane				14000				-		1.9 U
Heptachlor				380				42		1.9 UJ
Heptachlor epoxide				20				-		1.9 U
Methoxychlor				900000				-		1.9 U
Toxaphene				-				-		19 U
Semi-Volatile Organic Compounds (ug/kg)										
1,2,4-Trichlorobenzene				3400				-		360 U
1,2-Dichlorobenzene				1100				1100		360 U
1,3-Dichlorobenzene				2400				2400		360 U
1,4-Dichlorobenzene				1800				1800		360 U
2,2'-oxybis(1-Chloropropane)				-				-		360 UJ
2,4,5-Trichlorophenol				100				-		360 U
2,4,6-Trichlorophenol				-				-		360 U
2,4-Dichlorophenol				400				-		360 U
2,4-Dimethylphenol				-				-		360 U
2,4-Dinitrophenol				200				-		1900 U
2,4-Dinitrotoluene				-				-		360 U
2,6-Dinitrotoluene				170				-		360 U
2-Chloronaphthalene				-				-		360 U
2-Chlorophenol				-				-		360 U
2-Methylnaphthalene				36400				-		360 U
2-Methylphenol				330				330		360 U
2-Nitroaniline				400				-		1900 U
2-Nitrophenol				300				-		360 U
3&4-Methylphenol				-				-		360 U
3,3'-Dichlorobenzidine				-				-		360 U

Report Order			
Location Group			-
Location Name			-
Sample Name			TP01-TP06
Sample Date			TP-COMP-062513
Sample Time			6/25/2013
Sample Type			11:30:00
Sample Depth (bgs)	NYDEC_375_2006-12_RU-PGW	NYDEC_375_2006-12_URU	N
			5 - 5 (ft)
Semi-Volatile Organic Compounds (ug/kg) (continued)			
3-Nitroaniline	500	-	1900 U
4,6-Dinitro-2-methylphenol	-	-	1900 U
4-Bromophenyl phenyl ether	-	-	360 U
4-Chloro-3-methylphenol	-	-	360 U
4-Chloroaniline	220	-	360 U
4-Chlorophenyl phenyl ether	-	-	360 U
4-Nitroaniline	-	-	1900 U
4-Nitrophenol	100	-	1900 U
Acenaphthene	98000	20000	360 U
Acenaphthylene	107000	100000	360 U
Anthracene	1000000	100000	360 U
Benzo(a)anthracene	1000	1000	360 U
Benzo(a)pyrene	22000	1000	360 U
Benzo(b)fluoranthene	1700	1000	360 U
Benzo(g,h,i)perylene	1000000	100000	360 U
Benzo(k)fluoranthene	1700	800	360 U
Benzyl Alcohol	-	-	360 U
bis(2-Chloroethoxy)methane	-	-	360 U
bis(2-Chloroethyl)ether	-	-	360 U
bis(2-Ethylhexyl)phthalate	435000	-	360 U
Butyl benzylphthalate	122000	-	360 U
Carbazole	-	-	360 U
Chrysene	1000	1000	360 U
Dibenz(a,h)anthracene	1000000	330	360 U
Dibenzofuran	6200	7000	360 U
Diethyl phthalate	7100	-	360 U
Dimethyl phthalate	27000	-	360 U
Di-n-butylphthalate	8100	-	360 U
Di-n-octyl phthalate	120000	-	360 U
Fluoranthene	1000000	100000	360 U
Fluorene	386000	30000	360 U
Hexachlorobenzene	1400	330	360 U
Hexachlorobutadiene	-	-	360 UJ
Hexachlorocyclopentadiene	-	-	360 U
Hexachloroethane	-	-	360 U
Indeno(1,2,3-cd)pyrene	8200	500	360 U
Isophorone	4400	-	360 UJ
Naphthalene	12000	12000	360 U
Nitrobenzene	170	-	360 U
N-Nitrosodimethylamine	-	-	360 U
N-Nitrosodi-n-propylamine	-	-	360 U
N-Nitrosodiphenylamine	-	-	360 U
Pentachlorophenol	800	800	1900 U
Phenanthrene	1000000	100000	360 U
Phenol	330	330	360 U
Pyrene	1000000	100000	360 U
Volatile Organic Compounds (ug/kg)			
1,1,1-Trichloroethane	680	680	5.5 U
1,1,2,2-Tetrachloroethane	600	-	5.5 U
1,1,2-Trichloroethane	-	-	5.5 U
1,1-Dichloroethane	270	270	5.5 UJ
1,1-Dichloroethene	330	330	5.5 U
1,2-Dichloroethane	20	20	5.5 U
1,2-Dichloropropane	-	-	5.5 U
2-Butanone (Methyl Ethyl Ketone)	300	120	5.5 U
2-Hexanone	-	-	5.5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	1000	-	5.5 U
Acetone	50	50	5.5 U
Benzene	60	60	5.5 U
Bromodichloromethane	-	-	5.5 U
Bromoform	-	-	5.5 U
Bromomethane (Methyl Bromide)	-	-	5.5 U
Carbon disulfide	2700	-	5.5 U
Carbon tetrachloride	760	760	5.5 U
Chlorobenzene	1100	1100	5.5 U
Chloroethane	1900	-	5.5 U
Chloroform (Trichloromethane)	370	370	5.5 U
Chloromethane (Methyl Chloride)	-	-	5.5 U
cis-1,2-Dichloroethene	250	250	5.5 U
cis-1,3-Dichloropropene	-	-	5.5 U
Dibromochloromethane	-	-	5.5 U
Ethylbenzene	1000	1000	5.5 U
m,p-Xylenes	-	-	11 UJ
Methylene chloride	50	50	5.5 U
o-Xylene	-	-	5.5 UJ
Styrene	-	-	5.5 U
Tetrachloroethene	1300	1300	5.5 UJ
Toluene	700	700	5.5 U
trans-1,2-Dichloroethene	190	190	5.5 U
trans-1,3-Dichloropropene	-	-	5.5 U
Trichloroethene	470	470	5.5 U
Vinyl chloride	20	20	5.5 U

Notes and Abbreviations:

Results were compared to the following criteria:
[A]: Indicates result is NYDEC_375_2006-12_RU-PGW
[B]: Indicates result is NYDEC_375_2006-12_URU



July 19, 2013

Service Request No: R1304642

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision soil/ 70665-018

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on June 25, 2013. For your reference, these analyses have been assigned our service request number **R1304642**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 47



Client: Haley & Aldrich of New York
Project: Coopervision Soil #70665-018
Sample Matrix: Soil

Service Request No.: R1304642
Date Received: 6/25/13

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

One (1) soil sample was collected on 6/25/13 by H&A and received for analysis at ALS on the same day. The samples were received unbroken and consistent with the accompanying chain of custody form. The cooler temperature upon receipt at the laboratory was 4.6°C within the guidelines of 0-6°C.

The sample was analyzed for % Solids in order to report all data on a dry weight basis.

General Chemistry Parameters & Metals

One (1) soil sample was analyzed for Hexavalent Chromium, Trivalent Chromium (calculation) and Cyanide.

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for all analyses.

All holding times were met for these analyses.

Site QC was performed for Hexavalent Chromium and is included in the report. The Matrix Spike recovery and Relative Percent Difference (RPD) calculation were acceptable. For all analyzed compounds, the Laboratory Control Sample (LCS) recoveries were within QC limits.

All Laboratory Method Blanks were free from contamination.

No problems were encountered during the analysis of these samples.

Volatile Organic Compounds

One (1) soil sample was analyzed for the TCL of Volatile Organics by GC/MS Method 8260C from SW-846.

The 5035 soil vials were filled to capacity so a bulk jar was used for the VOC analysis.

All Initial and Continuing Calibration Criteria was met for these samples except for the following %D was outside the $\pm 20\%$ on the 8260 analysis: 1,1-Dichloroethane (20.7%), Tetrachloroethene (21.9%), m,p-xylenes (20.3%), and O-Xylene (20.4%) on the 7/1/13 analytical run. Hits for these compounds associated with this CCV should be considered as estimated, however the sample was non-detect for these compounds and therefore unaffected.

Batch QC is included in the report. All LCS and LCS Duplicate recoveries were within limits.

Approved by Karen Beuler Date 7/2/13

All surrogate recoveries were within acceptance limits.

The Laboratory Method Blank was free from contamination.

No other problems were encountered during the analysis of these samples.

Semivolatile Organics Compounds

One (1) soil sample was analyzed for the TCL of SemiVolatile Organics by GC/MS Method 8270D from SW-846.

All Initial and Continuing Calibration Criteria was met for these samples except for the following %D was outside the $\pm 20\%$: 2,2'Oxybis (1-chloropropane) and Hexachlorobutadiene. Hits for these compounds associated with this CCV should be considered as estimated, however the sample was non-detect for these compounds and therefore unaffected.

Batch QC is included in the report. All LCS and LCS Duplicate recoveries were within limits except for Isophorone on the LCSD only. The recovery has been flagged as "**". The LCS was acceptable for this compound.

All Surrogate recoveries were within limits.

The Laboratory Method Blank was free from contamination.

No other problems were encountered during the analysis of this sample.

Extractable Organics Compounds

One (1) soil sample was analyzed for Pesticides by GC Method 8081B, PCB's by GC Method 8082A and Herbicides by Method 8151A from SW-846.

All Initial and Continuing Calibration Criteria was met for this sample.

Site QC was performed on the Pesticides and PCB's and is included in the report. All MS and MSD recoveries were within acceptance limits. Several RPD's were outside limits on the 8081 data. The RPD's are flagged as "**". All LCS and LCS Duplicate recoveries were within limits.

All Surrogate recoveries were within limits.

The Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of this sample.

Approved by Kevin Beunke Date 7/22/13

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CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1304642

Lab ID
R1304642-001

Client ID
TP-COMP-062513

REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	North Carolina #676
Delaware Accredited	Nevada ID # NY-00032	Pennsylvania ID# 68-786
DoD ELAP #65817	New Jersey ID # NY004	Rhode Island ID # 158
Florida ID # E87674	New York ID # 10145	Virginia #460167
Illinois ID #200047		

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	3010A
200.8	ILM05.3
6010C	3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3010A
6010 SPLP (1312) extract	3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil
 Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	91.5	Percent	1.0	1	NA	7/1/13 15:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil
 Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13

Basis: Dry
 Percent Solids: 91.5

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	4.3	U	mg/Kg	4.3	1	7/16/13	7/16/13 19:15	
Chromium, Trivalent	6010B-7196A	103		mg/Kg	5.3	1	NA		
Cyanide, Total	9012B	0.098		mg/Kg	0.095	1	7/1/13	7/2/13 11:44	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil
 Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13

Basis: Dry
 Percent Solids: 91.5

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	24		mg/Kg	11	10	6/27/13	6/30/13 04:57	
Barium, Total	6010C	436		mg/Kg	21	10	6/27/13	6/30/13 04:57	
Beryllium, Total	6010C	3.2	U	mg/Kg	3.2	10	6/27/13	6/30/13 04:57	
Cadmium, Total	6010C	5.3	U	mg/Kg	5.3	10	6/27/13	6/30/13 04:57	
Chromium, Total	6010C	103		mg/Kg	11	10	6/27/13	6/30/13 04:57	
Copper, Total	6010C	117		mg/Kg	21	10	6/27/13	6/30/13 04:57	
Lead, Total	6010C	58		mg/Kg	53	10	6/27/13	6/30/13 04:57	
Manganese, Total	6010C	3630		mg/Kg	11	10	6/27/13	6/30/13 04:57	
Mercury, Total	7471B	0.033	U	mg/Kg	0.033	1	6/28/13	6/28/13 16:23	
Nickel, Total	6010C	115		mg/Kg	42	10	6/27/13	6/30/13 04:57	
Selenium, Total	6010C	11	U	mg/Kg	11	10	6/27/13	6/30/13 04:57	
Silver, Total	6010C	11	U	mg/Kg	11	10	6/27/13	6/30/13 04:57	
Zinc, Total	6010C	312		mg/Kg	21	10	6/27/13	6/30/13 04:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Analyzed: 7/1/13 14:59

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\MSVOA7\DATA\0701113\K4065.D\

Analysis Lot: 347531
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.5	U	5.5	
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U	5.5	
79-00-5	1,1,2-Trichloroethane	5.5	U	5.5	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.5	U	5.5	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.5	U	5.5	
107-06-2	1,2-Dichloroethane	5.5	U	5.5	
78-87-5	1,2-Dichloropropane	5.5	U	5.5	
78-93-3	2-Butanone (MEK)	5.5	U	5.5	
591-78-6	2-Hexanone	5.5	U	5.5	
108-10-1	4-Methyl-2-pentanone	5.5	U	5.5	
67-64-1	Acetone	5.5	U	5.5	
71-43-2	Benzene	5.5	U	5.5	
75-27-4	Bromodichloromethane	5.5	U	5.5	
75-25-2	Bromoform	5.5	U	5.5	
74-83-9	Bromomethane	5.5	U	5.5	
75-15-0	Carbon Disulfide	5.5	U	5.5	
56-23-5	Carbon Tetrachloride	5.5	U	5.5	
108-90-7	Chlorobenzene	5.5	U	5.5	
75-00-3	Chloroethane	5.5	U	5.5	
67-66-3	Chloroform	5.5	U	5.5	
74-87-3	Chloromethane	5.5	U	5.5	
124-48-1	Dibromochloromethane	5.5	U	5.5	
75-09-2	Dichloromethane	5.5	U	5.5	
100-41-4	Ethylbenzene	5.5	U	5.5	
100-42-5	Styrene	5.5	U	5.5	
127-18-4	Tetrachloroethene (PCE)	5.5	U	5.5	
108-88-3	Toluene	5.5	U	5.5	
79-01-6	Trichloroethene (TCE)	5.5	U	5.5	
75-01-4	Vinyl Chloride	5.5	U	5.5	
156-59-2	cis-1,2-Dichloroethene	5.5	U	5.5	
10061-01-5	cis-1,3-Dichloropropene	5.5	U	5.5	
179601-23-1	m,p-Xylenes	11	U	11	
95-47-6	o-Xylene	5.5	U	5.5	
156-60-5	trans-1,2-Dichloroethene	5.5	U	5.5	
10061-02-6	trans-1,3-Dichloropropene	5.5	U	5.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Analyzed: 7/1/13 14:59

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA7\DATA\070113\K4065.D\

Analysis Lot: 347531
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	94	28-150	7/1/13 14:59	
	Dibromofluoromethane	95	63-138	7/1/13 14:59	
	Toluene-d8	101	66-138	7/1/13 14:59	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Extracted: 6/28/13
 Date Analyzed: 7/2/13 00:53

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541
 Data File Name: I:\ACQUADATA\5973D\DATA\070113\AP673.D\

Analysis Lot: 347420
 Extraction Lot: 185997
 Instrument Name: R-MS-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	360	U	360	
95-50-1	1,2-Dichlorobenzene	360	U	360	
541-73-1	1,3-Dichlorobenzene	360	U	360	
106-46-7	1,4-Dichlorobenzene	360	U	360	
95-95-4	2,4,5-Trichlorophenol	360	U	360	
88-06-2	2,4,6-Trichlorophenol	360	U	360	
120-83-2	2,4-Dichlorophenol	360	U	360	
105-67-9	2,4-Dimethylphenol	360	U	360	
51-28-5	2,4-Dinitrophenol	1900	U	1900	
121-14-2	2,4-Dinitrotoluene	360	U	360	
606-20-2	2,6-Dinitrotoluene	360	U	360	
91-58-7	2-Chloronaphthalene	360	U	360	
95-57-8	2-Chlorophenol	360	U	360	
91-57-6	2-Methylnaphthalene	360	U	360	
95-48-7	2-Methylphenol	360	U	360	
88-74-4	2-Nitroaniline	1900	U	1900	
88-75-5	2-Nitrophenol	360	U	360	
91-94-1	3,3'-Dichlorobenzidine	360	U	360	
	3- and 4-Methylphenol Coelution	360	U	360	
99-09-2	3-Nitroaniline	1900	U	1900	
534-52-1	4,6-Dinitro-2-methylphenol	1900	U	1900	
101-55-3	4-Bromophenyl Phenyl Ether	360	U	360	
59-50-7	4-Chloro-3-methylphenol	360	U	360	
106-47-8	4-Chloroaniline	360	U	360	
7005-72-3	4-Chlorophenyl Phenyl Ether	360	U	360	
100-01-6	4-Nitroaniline	1900	U	1900	
100-02-7	4-Nitrophenol	1900	U	1900	
83-32-9	Acenaphthene	360	U	360	
208-96-8	Acenaphthylene	360	U	360	
120-12-7	Anthracene	360	U	360	
56-55-3	Benz(a)anthracene	360	U	360	
50-32-8	Benzo(a)pyrene	360	U	360	
205-99-2	Benzo(b)fluoranthene	360	U	360	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Extracted: 6/28/13
 Date Analyzed: 7/2/13 00:53

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541
 Data File Name: I:\ACQUADATA\5973D\DATA\070113\AP673.D\

Analysis Lot: 347420
 Extraction Lot: 185997
 Instrument Name: R-MS-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	360	U	360	
207-08-9	Benzo(k)fluoranthene	360	U	360	
100-51-6	Benzyl Alcohol	360	U	360	
108-60-1	2,2'-Oxybis(1-chloropropane)	360	U	360	
111-91-1	Bis(2-chloroethoxy)methane	360	U	360	
111-44-4	Bis(2-chloroethyl) Ether	360	U	360	
117-81-7	Bis(2-ethylhexyl) Phthalate	360	U	360	
85-68-7	Butyl Benzyl Phthalate	360	U	360	
86-74-8	Carbazole	360	U	360	
218-01-9	Chrysene	360	U	360	
84-74-2	Di-n-butyl Phthalate	360	U	360	
117-84-0	Di-n-octyl Phthalate	360	U	360	
53-70-3	Dibenz(a,h)anthracene	360	U	360	
132-64-9	Dibenzofuran	360	U	360	
84-66-2	Diethyl Phthalate	360	U	360	
131-11-3	Dimethyl Phthalate	360	U	360	
206-44-0	Fluoranthene	360	U	360	
86-73-7	Fluorene	360	U	360	
118-74-1	Hexachlorobenzene	360	U	360	
87-68-3	Hexachlorobutadiene	360	U	360	
77-47-4	Hexachlorocyclopentadiene	360	U	360	
67-72-1	Hexachloroethane	360	U	360	
193-39-5	Indeno(1,2,3-cd)pyrene	360	U	360	
78-59-1	Isophorone	360	U	360	
621-64-7	N-Nitrosodi-n-propylamine	360	U	360	
62-75-9	N-Nitrosodimethylamine	360	U	360	
86-30-6	N-Nitrosodiphenylamine	360	U	360	
91-20-3	Naphthalene	360	U	360	
98-95-3	Nitrobenzene	360	U	360	
87-86-5	Pentachlorophenol (PCP)	1900	U	1900	
85-01-8	Phenanthrene	360	U	360	
108-95-2	Phenol	360	U	360	
129-00-0	Pyrene	360	U	360	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Extracted: 6/28/13
 Date Analyzed: 7/2/13 00:53

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541
 Data File Name: I:\ACQUDATA\5973D\DATA\070113\AP673.D\

Analysis Lot: 347420
 Extraction Lot: 185997
 Instrument Name: R-MS-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	2,4,6-Tribromophenol	108	41-151	7/2/13 00:53	
	2-Fluorobiphenyl	76	49-115	7/2/13 00:53	
	2-Fluorophenol	67	22-117	7/2/13 00:53	
	Nitrobenzene-d5	77	40-112	7/2/13 00:53	
	Phenol-d6	64	10-145	7/2/13 00:53	
	p-Terphenyl-d14	57	38-137	7/2/13 00:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Extracted: 6/27/13
 Date Analyzed: 7/1/13 20:19

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
 Prep Method: EPA 3541
 Data File Name: I:\ACQUADATA\6890D\DATA\070113\FP049.D\

Analysis Lot: 347320
 Extraction Lot: 185998
 Instrument Name: R-GC-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
72-54-8	4,4'-DDD	1.9	U	1.9	
72-55-9	4,4'-DDE	1.9	U	1.9	
50-29-3	4,4'-DDT	1.9	U	1.9	
309-00-2	Aldrin	1.9	U	1.9	
60-57-1	Dieldrin	1.9	U	1.9	
959-98-8	Endosulfan I	1.9	U	1.9	
33213-65-9	Endosulfan II	1.9	U	1.9	
1031-07-8	Endosulfan Sulfate	1.9	U	1.9	
72-20-8	Endrin	1.9	U	1.9	
7421-93-4	Endrin Aldehyde	1.9	U	1.9	
53494-70-5	Endrin Ketone	1.9	U	1.9	
76-44-8	Heptachlor	1.9	U	1.9	
1024-57-3	Heptachlor Epoxide	1.9	U	1.9	
72-43-5	Methoxychlor	1.9	U	1.9	
8001-35-2	Toxaphene	1.9	U	1.9	
319-84-6	alpha-BHC	1.9	U	1.9	
5103-71-9	alpha-Chlordane	1.9	U	1.9	
319-85-7	beta-BHC	1.9	U	1.9	
319-86-8	delta-BHC	1.9	U	1.9	
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9	
5566-34-7	gamma-Chlordane	1.9	U	1.9	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	46	10-122	7/1/13 20:19	
Tetrachloro-m-xylene	34	10-123	7/1/13 20:19	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Extracted: 6/27/13
 Date Analyzed: 6/28/13 17:03

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
 Prep Method: EPA 3541
 Data File Name: I:\ACQU\DATA\GC\EXT4\DATA\062813\NL900.D\

Analysis Lot: 347118
 Extraction Lot: 185998
 Instrument Name: R-GC-56
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	36	U	36	
11104-28-2	Aroclor 1221	73	U	73	
11141-16-5	Aroclor 1232	36	U	36	
53469-21-9	Aroclor 1242	36	U	36	
12672-29-6	Aroclor 1248	36	U	36	
11097-69-1	Aroclor 1254	36	U	36	
11096-82-5	Aroclor 1260	36	U	36	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	87	22-150	6/28/13 17:03	
Tetrachloro-m-xylene	39	10-126	6/28/13 17:03	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13 1130
 Date Received: 6/25/13
 Date Extracted: 7/9/13
 Date Analyzed: 7/16/13 12:01

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001

Units: µg/Kg
 Basis: Dry
 Percent Solids: 91.5

Chlorinated Herbicides by GC

Analytical Method: 8151A
 Prep Method: Method
 Data File Name: I:\ACQU\DATA\5890F\DATA\071613\GJ118.D\

Analysis Lot: 349392
 Extraction Lot: 186733
 Instrument Name: R-GC-55
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
93-76-5	2,4,5-T	11	U	11	
93-72-1	2,4,5-TP	11	U	11	
94-75-7	2,4-D	11	U	11	
1918-00-9	Dicamba	11	U	11	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	53	15-143	7/16/13 12:01	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision soil/ 70665-018
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: R1304642-MB

Service Request: R1304642
Date Collected: NA
Date Received: NA

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	1.0	U	Percent	1.0	1	NA	7/1/13 15:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil
 Sample Name: Method Blank
 Lab Code: R1304642-MB

Service Request: R1304642
 Date Collected: NA
 Date Received: NA

Basis: Dry

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	4.0	U	mg/Kg	4.0	1	7/16/13	7/16/13 19:15	
Cyanide, Total	9012B	0.10	U	mg/Kg	0.10	1	7/ 1/13	7/2/13 11:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil
 Sample Name: Method Blank
 Lab Code: R1304642-MB

Service Request: R1304642
 Date Collected: NA
 Date Received: NA

Basis: Dry

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	1.0	U	mg/Kg	1.0	1	6/27/13	6/30/13 03:00	
Barium, Total	6010C	2.0	U	mg/Kg	2.0	1	6/27/13	6/30/13 03:00	
Beryllium, Total	6010C	0.30	U	mg/Kg	0.30	1	6/27/13	6/30/13 03:00	
Cadmium, Total	6010C	0.50	U	mg/Kg	0.50	1	6/27/13	6/30/13 03:00	
Chromium, Total	6010C	1.0	U	mg/Kg	1.0	1	6/27/13	6/30/13 03:00	
Copper, Total	6010C	2.0	U	mg/Kg	2.0	1	6/27/13	6/30/13 03:00	
Lead, Total	6010C	5.0	U	mg/Kg	5.0	1	6/27/13	6/30/13 03:00	
Manganese, Total	6010C	1.0	U	mg/Kg	1.0	1	6/27/13	6/30/13 03:00	
Mercury, Total	7471B	0.033	U	mg/Kg	0.033	1	6/28/13	6/28/13 16:03	
Nickel, Total	6010C	4.0	U	mg/Kg	4.0	1	6/27/13	6/30/13 03:00	
Selenium, Total	6010C	1.0	U	mg/Kg	1.0	1	6/27/13	6/30/13 03:00	
Silver, Total	6010C	1.0	U	mg/Kg	1.0	1	6/27/13	6/30/13 03:00	
Zinc, Total	6010C	2.0	U	mg/Kg	2.0	1	6/27/13	6/30/13 03:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 7/1/13 12:46

Sample Name: Method Blank
 Lab Code: RQ1307647-04

Units: µg/Kg
 Basis: Dry

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\MSVOA7\DATA\070113\K4062.D\

Analysis Lot: 347531
 Instrument Name: R-MS-07
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0	U	5.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
75-15-0	Carbon Disulfide	5.0	U	5.0	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-09-2	Dichloromethane	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
100-42-5	Styrene	5.0	U	5.0	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
79-01-6	Trichloroethene (TCE)	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	10	U	10	
95-47-6	o-Xylene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision soil/ 70665-018
Sample Matrix: Soil

Service Request: R1304642
Date Collected: NA
Date Received: NA
Date Analyzed: 7/1/13 12:46

Sample Name: Method Blank
Lab Code: RQ1307647-04

Units: µg/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\070113\K4062.D\

Analysis Lot: 347531
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	89	28-150	7/1/13 12:46	
	Dibromofluoromethane	96	63-138	7/1/13 12:46	
	Toluene-d8	99	66-138	7/1/13 12:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Extracted: 6/28/13
 Date Analyzed: 7/1/13 16:27

Sample Name: Method Blank
 Lab Code: RQ1307429-01

Units: µg/Kg
 Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541
 Data File Name: I:\ACQUDATA\5973D\DATA\070113\AP658.D

Analysis Lot: 347420
 Extraction Lot: 185997
 Instrument Name: R-MS-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	330	U	330	
95-50-1	1,2-Dichlorobenzene	330	U	330	
541-73-1	1,3-Dichlorobenzene	330	U	330	
106-46-7	1,4-Dichlorobenzene	330	U	330	
95-95-4	2,4,5-Trichlorophenol	330	U	330	
88-06-2	2,4,6-Trichlorophenol	330	U	330	
120-83-2	2,4-Dichlorophenol	330	U	330	
105-67-9	2,4-Dimethylphenol	330	U	330	
51-28-5	2,4-Dinitrophenol	1700	U	1700	
121-14-2	2,4-Dinitrotoluene	330	U	330	
606-20-2	2,6-Dinitrotoluene	330	U	330	
91-58-7	2-Chloronaphthalene	330	U	330	
95-57-8	2-Chlorophenol	330	U	330	
91-57-6	2-Methylnaphthalene	330	U	330	
95-48-7	2-Methylphenol	330	U	330	
88-74-4	2-Nitroaniline	1700	U	1700	
88-75-5	2-Nitrophenol	330	U	330	
91-94-1	3,3'-Dichlorobenzidine	330	U	330	
	3- and 4-Methylphenol Coelution	330	U	330	
99-09-2	3-Nitroaniline	1700	U	1700	
534-52-1	4,6-Dinitro-2-methylphenol	1700	U	1700	
101-55-3	4-Bromophenyl Phenyl Ether	330	U	330	
59-50-7	4-Chloro-3-methylphenol	330	U	330	
106-47-8	4-Chloroaniline	330	U	330	
7005-72-3	4-Chlorophenyl Phenyl Ether	330	U	330	
100-01-6	4-Nitroaniline	1700	U	1700	
100-02-7	4-Nitrophenol	1700	U	1700	
83-32-9	Acenaphthene	330	U	330	
208-96-8	Acenaphthylene	330	U	330	
120-12-7	Anthracene	330	U	330	
56-55-3	Benz(a)anthracene	330	U	330	
50-32-8	Benzo(a)pyrene	330	U	330	
205-99-2	Benzo(b)fluoranthene	330	U	330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Extracted: 6/28/13
 Date Analyzed: 7/1/13 16:27

Sample Name: Method Blank
 Lab Code: RQ1307429-01

Units: µg/Kg
 Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541
 Data File Name: I:\ACQUADATA\5973D\DATA\070113\AP658.D\

Analysis Lot: 347420
 Extraction Lot: 185997
 Instrument Name: R-MS-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	330	U	330	
207-08-9	Benzo(k)fluoranthene	330	U	330	
100-51-6	Benzyl Alcohol	330	U	330	
108-60-1	2,2'-Oxybis(1-chloropropane)	330	U	330	
111-91-1	Bis(2-chloroethoxy)methane	330	U	330	
111-44-4	Bis(2-chloroethyl) Ether	330	U	330	
117-81-7	Bis(2-ethylhexyl) Phthalate	330	U	330	
85-68-7	Butyl Benzyl Phthalate	330	U	330	
86-74-8	Carbazole	330	U	330	
218-01-9	Chrysene	330	U	330	
84-74-2	Di-n-butyl Phthalate	330	U	330	
117-84-0	Di-n-octyl Phthalate	330	U	330	
53-70-3	Dibenz(a,h)anthracene	330	U	330	
132-64-9	Dibenzofuran	330	U	330	
84-66-2	Diethyl Phthalate	330	U	330	
131-11-3	Dimethyl Phthalate	330	U	330	
206-44-0	Fluoranthene	330	U	330	
86-73-7	Fluorene	330	U	330	
118-74-1	Hexachlorobenzene	330	U	330	
87-68-3	Hexachlorobutadiene	330	U	330	
77-47-4	Hexachlorocyclopentadiene	330	U	330	
67-72-1	Hexachloroethane	330	U	330	
193-39-5	Indeno(1,2,3-cd)pyrene	330	U	330	
78-59-1	Isophorone	330	U	330	
621-64-7	N-Nitrosodi-n-propylamine	330	U	330	
62-75-9	N-Nitrosodimethylamine	330	U	330	
86-30-6	N-Nitrosodiphenylamine	330	U	330	
91-20-3	Naphthalene	330	U	330	
98-95-3	Nitrobenzene	330	U	330	
87-86-5	Pentachlorophenol (PCP)	1700	U	1700	
85-01-8	Phenanthrene	330	U	330	
108-95-2	Phenol	330	U	330	
129-00-0	Pyrene	330	U	330	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Extracted: 6/28/13
 Date Analyzed: 7/1/13 16:27

Sample Name: Method Blank
 Lab Code: RQ1307429-01

Units: µg/Kg
 Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541
 Data File Name: I:\ACQU\DATA\5973D\DATA\070113\AP658.D\

Analysis Lot: 347420
 Extraction Lot: 185997
 Instrument Name: R-MS-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	2,4,6-Tribromophenol	112	41-151	7/1/13 16:27	
	2-Fluorobiphenyl	74	49-115	7/1/13 16:27	
	2-Fluorophenol	74	22-117	7/1/13 16:27	
	Nitrobenzene-d5	72	40-112	7/1/13 16:27	
	Phenol-d6	75	10-145	7/1/13 16:27	
	p-Terphenyl-d14	58	38-137	7/1/13 16:27	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Extracted: 6/27/13
 Date Analyzed: 7/1/13 11:44

Sample Name: Method Blank
 Lab Code: RQ1307370-01

Units: µg/Kg
 Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
 Prep Method: EPA 3541
 Data File Name: I:\ACQUADATA\6890D\DATA\070113\FP035.D\

Analysis Lot: 347320
 Extraction Lot: 185998
 Instrument Name: R-GC-54
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
72-54-8	4,4'-DDD	1.7	U	1.7	
72-55-9	4,4'-DDE	1.7	U	1.7	
50-29-3	4,4'-DDT	1.7	U	1.7	
309-00-2	Aldrin	1.7	U	1.7	
60-57-1	Dieldrin	1.7	U	1.7	
959-98-8	Endosulfan I	1.7	U	1.7	
33213-65-9	Endosulfan II	1.7	U	1.7	
1031-07-8	Endosulfan Sulfate	1.7	U	1.7	
72-20-8	Endrin	1.7	U	1.7	
7421-93-4	Endrin Aldehyde	1.7	U	1.7	
53494-70-5	Endrin Ketone	1.7	U	1.7	
76-44-8	Heptachlor	1.7	U	1.7	
1024-57-3	Heptachlor Epoxide	1.7	U	1.7	
72-43-5	Methoxychlor	1.7	U	1.7	
8001-35-2	Toxaphene	17	U	17	
319-84-6	alpha-BHC	1.7	U	1.7	
5103-71-9	alpha-Chlordane	1.7	U	1.7	
319-85-7	beta-BHC	1.7	U	1.7	
319-86-8	delta-BHC	1.7	U	1.7	
58-89-9	gamma-BHC (Lindane)	1.7	U	1.7	
5566-34-7	gamma-Chlordane	1.7	U	1.7	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	51	10-122	7/1/13 11:44	
Tetrachloro-m-xylene	59	10-123	7/1/13 11:44	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Extracted: 6/27/13
 Date Analyzed: 6/28/13 10:02

Sample Name: Method Blank
 Lab Code: RQ1307370-01

Units: µg/Kg
 Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
 Prep Method: EPA 3541
 Data File Name: I:\ACQUADATA\GCEXT4\DATA\062813\NL888.D\

Analysis Lot: 347118
 Extraction Lot: 185998
 Instrument Name: R-GC-56
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	33	U	33	
11104-28-2	Aroclor 1221	67	U	67	
11141-16-5	Aroclor 1232	33	U	33	
53469-21-9	Aroclor 1242	33	U	33	
12672-29-6	Aroclor 1248	33	U	33	
11097-69-1	Aroclor 1254	33	U	33	
11096-82-5	Aroclor 1260	33	U	33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	22-150	6/28/13 10:02	
Tetrachloro-m-xylene	81	10-126	6/28/13 10:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: NA
 Date Received: NA
 Date Extracted: 7/9/13
 Date Analyzed: 7/16/13 12:31

Sample Name: Method Blank
 Lab Code: RQ1307850-01

Units: µg/Kg
 Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
 Prep Method: Method
 Data File Name: I:\ACQUADATA\5890F\DATA\071613\GJ119.D\

Analysis Lot: 349392
 Extraction Lot: 186733
 Instrument Name: R-GC-55
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
93-76-5	2,4,5-T	10	U	10	
93-72-1	2,4,5-TP	10	U	10	
94-75-7	2,4-D	10	U	10	
1918-00-9	Dicamba	10	U	10	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	61	15-143	7/16/13 12:31	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision soil/ 70665-018
Sample Matrix: Soil

Service Request: R1304642
Date Collected: 6/25/13
Date Received: 6/25/13
Date Analyzed: 7/16/13

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: TP-COMP-062513
Lab Code: R1304642-001

Units: mg/Kg
Basis: Dry

TP-COMP-062513D
 UP

Analyte Name	Method	MRL	Sample Result	Duplicate Sample		RPD	RPD Limit
				R1304642-001DUP Result	Average		
Chromium, Hexavalent	7196A	4.3	4.3 U	4.3 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13
 Date Received: 6/25/13
 Date Analyzed: 7/16/13

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001
 Analytical Method: 7196A
 Prep Method: EPA 3060A

Units: mg/Kg
 Basis: Dry

TP-COMP-062513MS
 Matrix Spike
 R1304642-001MS1

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	ND	43.3	43.2	100	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13
 Date Received: 6/25/13
 Date Analyzed: 7/16/13

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001
 Analytical Method: 7196A
 Prep Method: EPA 3060A

Units: mg/Kg
 Basis: Dry

TP-COMP-062513MS
 Matrix Spike
 R1304642-001MS2

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	ND	657	715	92	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13
 Date Received: 6/25/13
 Date Analyzed: 7/1/13

Matrix Spike Summary
 Organochlorine Pesticides by Gas Chromatography

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001
 Analytical Method: 8081B
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Analyte Name	Sample Result	TP-COMP-062513MS Matrix Spike RQ1307370-04			TP-COMP-062513DMS Duplicate Matrix Spike RQ1307370-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
4,4'-DDD	ND	6.66	7.29	91	6.78	7.29	93	10 - 165	2	30
4,4'-DDE	ND	5.62	7.29	77	6.13	7.29	84	10 - 165	9	30
4,4'-DDT	ND	4.47	7.29	61	4.76	7.29	65	10 - 163	6	30
Aldrin	ND	4.13	7.29	57	5.79	7.29	79	10 - 167	33 *	30
Dieldrin	ND	5.43	7.29	74	6.04	7.29	83	24 - 140	11	30
Endosulfan I	ND	5.13	7.29	70	5.75	7.29	79	13 - 145	12	30
Endosulfan II	ND	6.23	7.29	86	6.44	7.29	88	12 - 178	3	30
Endosulfan Sulfate	ND	6.44	7.29	88	6.64	7.29	91	15 - 157	3	30
Endrin	ND	6.65	7.29	91	7.09	7.29	97	16 - 153	6	30
Endrin Aldehyde	ND	2.12	7.29	29	4.87	7.29	67	10 - 161	78 *	30
Endrin Ketone	ND	6.55	7.29	90	6.62	7.29	91	17 - 161	<1	30
Heptachlor	ND	3.55	7.29	49	5.25	7.29	72	10 - 160	39 *	30
Heptachlor Epoxide	ND	4.34	7.29	59	5.36	7.29	74	10 - 166	21	30
Methoxychlor	ND	6.70	7.29	92	6.73	7.29	92	10 - 192	<1	30
alpha-BHC	ND	3.89	7.29	53	5.93	7.29	81	10 - 149	42 *	30
alpha-Chlordane	ND	5.28	7.29	72	6.03	7.29	83	10 - 180	13	30
beta-BHC	ND	5.85	7.29	80	5.87	7.29	81	10 - 176	<1	30
delta-BHC	ND	6.04	7.29	83	6.62	7.29	91	17 - 138	9	30
gamma-BHC (Lindane)	ND	4.16	7.29	57	5.94	7.29	82	10 - 141	35 *	30
gamma-Chlordane	ND	5.28	7.29	72	5.86	7.29	80	14 - 139	10	30

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Collected: 6/25/13
 Date Received: 6/25/13
 Date Analyzed: 6/28/13

Matrix Spike Summary
 Polychlorinated Biphenyls (PCBs) by GC

Sample Name: TP-COMP-062513
 Lab Code: R1304642-001
 Analytical Method: 8082A
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Analyte Name	Sample Result	TP-COMP-062513MS Matrix Spike RQ1307370-04			TP-COMP-062513DMS Duplicate Matrix Spike RQ1307370-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1260	ND	160	182	88	169	182	93	58 - 129	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/ 2/13 -
 7/16/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/Kg
 Basis: Dry

Lab Control Sample
 R1304642-LCS1

Analyte Name	Method	Result	Spike		% Rec Limits
			Amount	% Rec	
Chromium, Hexavalent	7196A	613	656	93	80 - 120
Cyanide, Total	9012B	1.02	1.00	102	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/2/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/Kg
 Basis: Dry

Lab Control Sample
 R1304642-LCS2

Analyte Name	Method	Result	Spike		% Rec Limits
			Amount	% Rec	
Cyanide, Total	9012B	3.89	4.00	97	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 6/28/13 -
 6/30/13

Lab Control Sample Summary
 Inorganic Parameters

Units: mg/Kg
 Basis: Dry

Lab Control Sample
 R1304642-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	87.5	94.5	93	82.3 - 117
Barium, Total	6010C	157	167	94	83.8 - 115
Beryllium, Total	6010C	52.5	57.6	91	83.0 - 117
Cadmium, Total	6010C	58.3	60.5	96	83.1 - 116
Chromium, Total	6010C	69.1	70.4	98	81.8 - 118
Copper, Total	6010C	80.6	79.6	101	83.8 - 116
Lead, Total	6010C	86.7	91.8	94	82.2 - 117
Manganese, Total	6010C	266	283	94	82.3 - 117
Mercury, Total	7471B	3.48	3.73	93	71.6 - 128
Nickel, Total	6010C	59.1	57.6	103	82.8 - 117
Selenium, Total	6010C	76.4	86.4	88	80.1 - 120
Silver, Total	6010C	33.6	34.4	98	66.3 - 134
Zinc, Total	6010C	132	140	95	82.1 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/ 1/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/Kg
 Basis: Dry

Analysis Lot: 347531

Lab Control Sample
 RQ1307647-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	17.9	20.0	90	65 - 127
1,1,2,2-Tetrachloroethane	19.5	20.0	97	71 - 134
1,1,2-Trichloroethane	19.9	20.0	100	76 - 123
1,1-Dichloroethane (1,1-DCA)	21.7	20.0	108	75 - 126
1,1-Dichloroethene (1,1-DCE)	21.9	20.0	109	64 - 124
1,2-Dichloroethane	18.3	20.0	92	75 - 132
1,2-Dichloropropane	22.9	20.0	114	79 - 124
2-Butanone (MEK)	20.4	20.0	102	70 - 131
2-Hexanone	19.3	20.0	96	59 - 144
4-Methyl-2-pentanone	19.2	20.0	96	65 - 138
Acetone	17.6	20.0	88	55 - 143
Benzene	20.3	20.0	102	75 - 124
Bromodichloromethane	19.4	20.0	97	77 - 127
Bromoform	20.5	20.0	102	61 - 144
Bromomethane	17.6	20.0	88	46 - 133
Carbon Disulfide	18.9	20.0	95	70 - 147
Carbon Tetrachloride	19.0	20.0	95	62 - 134
Chlorobenzene	21.4	20.0	107	77 - 124
Chloroethane	19.9	20.0	99	66 - 136
Chloroform	19.7	20.0	98	75 - 126
Chloromethane	20.6	20.0	103	52 - 145
Dibromochloromethane	21.0	20.0	105	69 - 133
Dichloromethane	19.3	20.0	96	75 - 122
Ethylbenzene	20.4	20.0	102	70 - 130
Styrene	22.3	20.0	112	71 - 127
Tetrachloroethene (PCE)	23.0	20.0	115	67 - 133
Toluene	19.8	20.0	99	72 - 127
Trichloroethene (TCE)	19.9	20.0	99	72 - 128
Vinyl Chloride	21.2	20.0	106	58 - 152
cis-1,2-Dichloroethene	21.2	20.0	106	75 - 127
cis-1,3-Dichloropropene	21.6	20.0	108	73 - 120
m,p-Xylenes	44.3	40.0	111	70 - 131
o-Xylene	23.1	20.0	116	71 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/ 1/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/Kg
 Basis: Dry

Analysis Lot: 347531

Lab Control Sample
 RQ1307647-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	20.9	20.0	104	69 - 125
trans-1,3-Dichloropropene	21.0	20.0	105	68 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/1/13

Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Extraction Lot: 185997

Analyte Name	Lab Control Sample RQ1307429-02			Duplicate Lab Control Sample RQ1307429-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4-Trichlorobenzene	2410	3330	72	2500	3330	75	60 - 116	4	30
1,2-Dichlorobenzene	2000	3330	60	2000	3330	60	51 - 107	<1	30
1,3-Dichlorobenzene	1890	3330	57	1790	3330	54	48 - 106	5	30
1,4-Dichlorobenzene	1850	3330	55	1840	3330	55	25 - 120	<1	30
2,4,5-Trichlorophenol	3020	3330	90	3090	3330	93	34 - 121	3	30
2,4,6-Trichlorophenol	2950	3330	89	3170	3330	95	76 - 117	7	30
2,4-Dichlorophenol	2840	3330	85	2870	3330	86	72 - 112	<1	30
2,4-Dimethylphenol	2700	3330	81	2830	3330	85	41 - 106	5	30
2,4-Dinitrophenol	2000	3330	60	2120	3330	64	12 - 134	6	30
2,4-Dinitrotoluene	3410	3330	102	3350	3330	100	64 - 121	2	30
2,6-Dinitrotoluene	3070	3330	92	3120	3330	94	79 - 116	2	30
2-Chloronaphthalene	2720	3330	82	2710	3330	81	76 - 112	<1	30
2-Chlorophenol	2390	3330	72	2600	3330	78	31 - 123	8	30
2-Methylnaphthalene	2470	3330	74	2580	3330	77	73 - 108	4	30
2-Methylphenol	2420	3330	72	2460	3330	74	62 - 105	2	30
2-Nitroaniline	2690	3330	81	2800	3330	84	77 - 115	4	30
2-Nitrophenol	2630	3330	79	2840	3330	85	69 - 115	8	30
3,3'-Dichlorobenzidine	1850	3330	56	2050	3330	61	55 - 109	10	30
3- and 4-Methylphenol Coelution	5100	6670	77	5200	6670	78	65 - 110	2	30
3-Nitroaniline	2360	3330	71	2430	3330	73	45 - 108	3	30
4,6-Dinitro-2-methylphenol	2700	3330	81	3070	3330	92	22 - 161	13	30
4-Bromophenyl Phenyl Ether	2910	3330	87	2920	3330	88	73 - 120	<1	30
4-Chloro-3-methylphenol	2880	3330	86	2910	3330	87	39 - 127	1	30
4-Chloroaniline	2080	3330	62	2290	3330	69	37 - 119	10	30
4-Chlorophenyl Phenyl Ether	3090	3330	93	3080	3330	92	77 - 109	<1	30
4-Nitroaniline	2590	3330	78	2600	3330	78	69 - 117	<1	30
4-Nitrophenol	2440	3330	73	2390	3330	72	43 - 133	2	30
Acenaphthene	2780	3330	83	2780	3330	83	79 - 115	<1	30
Acenaphthylene	2790	3330	84	2820	3330	85	84 - 120	<1	30
Anthracene	2840	3330	85	2840	3330	85	83 - 113	<1	30
Benz(a)anthracene	2740	3330	82	2820	3330	85	72 - 128	3	30
Benzo(a)pyrene	2590	3330	78	2610	3330	78	66 - 127	<1	30
Benzo(b)fluoranthene	2760	3330	83	2780	3330	84	61 - 135	<1	30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/ 1/13

Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Extraction Lot: 185997

Analyte Name	Lab Control Sample RQ1307429-02			Duplicate Lab Control Sample RQ1307429-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(g,h,i)perylene	2690	3330	81	2820	3330	85	74 - 124	5	30
Benzo(k)fluoranthene	2730	3330	82	2640	3330	79	70 - 112	3	30
Benzyl Alcohol	2840	3330	85	2880	3330	86	63 - 116	1	30
2,2'-Oxybis(1-chloropropane)	1810	3330	54	1970	3330	59	49 - 117	9	30
Bis(2-chloroethoxy)methane	2330	3330	70	2400	3330	72	52 - 131	3	30
Bis(2-chloroethyl) Ether	1930	3330	58	2060	3330	62	54 - 112	6	30
Bis(2-ethylhexyl) Phthalate	2890	3330	87	2890	3330	87	61 - 145	<1	30
Butyl Benzyl Phthalate	2740	3330	82	2740	3330	82	59 - 115	<1	30
Carbazole	2730	3330	82	2770	3330	83	66 - 111	1	30
Chrysene	2790	3330	84	2870	3330	86	63 - 136	3	30
Di-n-butyl Phthalate	3130	3330	94	3090	3330	93	65 - 140	1	30
Di-n-octyl Phthalate	2780	3330	83	2670	3330	80	60 - 142	4	30
Dibenz(a,h)anthracene	2770	3330	83	2860	3330	86	75 - 120	3	30
Dibenzofuran	2790	3330	84	2800	3330	84	80 - 110	<1	30
Diethyl Phthalate	3190	3330	96	3220	3330	97	65 - 115	<1	30
Dimethyl Phthalate	3080	3330	92	3120	3330	94	67 - 112	1	30
Fluoranthene	3080	3330	92	3140	3330	94	71 - 128	2	30
Fluorene	2920	3330	88	2900	3330	87	79 - 110	<1	30
Hexachlorobenzene	2970	3330	89	2960	3330	89	68 - 115	<1	30
Hexachlorobutadiene	2500	3330	75	2560	3330	77	59 - 116	2	30
Hexachlorocyclopentadiene	2360	3330	71	2360	3330	71	10 - 155	<1	30
Hexachloroethane	1910	3330	57	1840	3330	55	47 - 107	3	30
Indeno(1,2,3-cd)pyrene	2620	3330	79	2740	3330	82	76 - 121	5	30
Isophorone	2470	3330	74	2450	3330	73	74 - 111	<1	30
N-Nitrosodi-n-propylamine	2530	3330	76	2500	3330	75	66 - 113	1	30
N-Nitrosodimethylamine	2030	3330	61	2130	3330	64	50 - 111	5	30
N-Nitrosodiphenylamine	3190	3330	96	3200	3330	96	78 - 119	<1	30
Naphthalene	2280	3330	68	2390	3330	72	66 - 108	5	30
Nitrobenzene	2370	3330	71	2600	3330	78	64 - 111	9	30
Pentachlorophenol (PCP)	2700	3330	81	2830	3330	85	22 - 160	5	30
Phenanthrene	2890	3330	87	2930	3330	88	81 - 115	2	30
Phenol	2280	3330	69	2350	3330	71	60 - 112	3	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/ 1/13

Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Extraction Lot: 185997

Analyte Name	Lab Control Sample RQ1307429-02			Duplicate Lab Control Sample RQ1307429-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyrene	2630	3330	79	2650	3330	80	70 - 133	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/ 1/13

Lab Control Sample Summary
 Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Extraction Lot: 185998

Analyte Name	Lab Control Sample RQ1307370-02			Duplicate Lab Control Sample RQ1307370-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
4,4'-DDD	6.72	6.67	101	6.70	6.67	100	46 - 123	<1	30
4,4'-DDE	5.62	6.67	84	5.70	6.67	85	45 - 121	1	30
4,4'-DDT	4.65	6.67	70	5.02	6.67	75	38 - 119	8	30
Aldrin	5.56	6.67	83	5.54	6.67	83	24 - 104	<1	30
Dieldrin	5.78	6.67	87	5.91	6.67	89	40 - 115	2	30
Endosulfan I	5.56	6.67	83	5.69	6.67	85	41 - 109	2	30
Endosulfan II	6.16	6.67	92	6.22	6.67	93	45 - 119	1	30
Endosulfan Sulfate	6.17	6.67	93	6.35	6.67	95	46 - 115	3	30
Endrin	6.37	6.67	96	6.47	6.67	97	42 - 134	2	30
Endrin Aldehyde	1.55	6.67	23	1.68	6.67	25	10 - 82	8	30
Endrin Ketone	6.09	6.67	91	6.18	6.67	93	44 - 121	2	30
Heptachlor	5.25	6.67	79	5.24	6.67	79	35 - 107	<1	30
Heptachlor Epoxide	5.15	6.67	77	5.31	6.67	80	44 - 109	3	30
Methoxychlor	6.35	6.67	95	6.50	6.67	97	45 - 123	2	30
alpha-BHC	5.90	6.67	89	5.92	6.67	89	29 - 105	<1	30
alpha-Chlordane	5.51	6.67	83	5.63	6.67	84	37 - 110	2	30
beta-BHC	5.77	6.67	87	5.70	6.67	85	40 - 105	1	30
delta-BHC	6.44	6.67	97	6.67	6.67	100	37 - 119	3	30
gamma-BHC (Lindane)	5.97	6.67	90	5.98	6.67	90	34 - 103	<1	30
gamma-Chlordane	5.49	6.67	82	5.61	6.67	84	42 - 115	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 6/28/13

Lab Control Sample Summary
 Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
 Prep Method: EPA 3541

Units: µg/Kg
 Basis: Dry

Extraction Lot: 185998

Analyte Name	Lab Control Sample RQ1307370-02			Duplicate Lab Control Sample RQ1307370-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1260	135	167	81	154	167	92	58 - 129	13	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision soil/ 70665-018
 Sample Matrix: Soil

Service Request: R1304642
 Date Analyzed: 7/16/13

Lab Control Sample Summary
 Chlorinated Herbicides by GC

Analytical Method: 8151A
 Prep Method: Method

Units: µg/Kg
 Basis: Dry

Extraction Lot: 186733

Analyte Name	Lab Control Sample RQ1307850-02			Duplicate Lab Control Sample RQ1307850-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
2,4,5-T	34.9	50.0	70	34.8	50.0	70	10 - 164	<1	30
2,4,5-TP	32.5	50.0	65	32.1	50.0	64	34 - 116	1	30
2,4-D	35.9	50.0	72	34.8	50.0	70	29 - 147	3	30
Dicamba	35.1	50.0	70	34.4	50.0	69	33 - 114	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 09195

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name CooperVision		Project Number 70665-018		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager Mark Ramsdell		Report CC		PRESERVATIVE																			
Company/Address 200 Town Centre Dr Suite 2				NUMBER OF CONTAINERS	GC/MS VOA's • 8250 • 824 • CLP	GC/MS SVOA's • 8270 • 825	GC VOA's • 8021 • 801/802	PESTICIDES • 8091 • 808	PCBS • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	CN total	Cr 6, TS	Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____									
Phone #		Email mramisdell@haleyaldrich.com													REMARKS/ ALTERNATE DESCRIPTION								
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name SWETA MCKENNA																					
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE TIME		MATRIX																			
TP-COMP-062513	-001	6/25/13	1130	Soil	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SPECIAL INSTRUCTIONS/COMMENTS Metals order # 40768				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day 3 week TAT REQUESTED REPORT DATE				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes No				INVOICE INFORMATION PO # BILL TO:											
STATE WHERE SAMPLES WERE COLLECTED NY				RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY							
Signature <i>[Signature]</i>		Signature <i>[Signature]</i>		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name ALS		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm		Firm 6/25/13/1500		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	

R1304642 5
Haley & Aldrich, Inc.
CooperVision soil

00000



Cooler Receipt and Preservation Check Form

Project/Client H+A Folder Number R1304642

Cooler received on 6/25/13 by: shw COURIER: ALS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
- Were ~~Cool~~ or Ice packs present? YES NO
- Where did the bottles originate? ALS/ROC, CLIENT
- Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A BD
- Temperature of cooler(s) upon receipt: 4.6°

6/26/13

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: 6/25/13 / 1505

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location	<u>R-002</u>	by <u>shw</u>	on <u>6/25/13</u>	at <u>1505</u>
5035 samples placed in storage location	<u>R-F05</u>	by <u>↓</u>	on <u>↓</u>	at <u>↓</u>

PC Secondary Review: 6/26/13

Cooler Breakdown: Date: 6/26/13 Time: 1400 by: BD

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES NO		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
		YES	NO						
≥12	NaOH								
≤2	HNO ₃								
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)					
	Na ₂ S ₂ O ₃	-	-						
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust:

*Not to be tested before analysis -- pH tested and recorded by VOAs or GenChem on a separate worksheet

Bottle lot numbers: 102912-IRR, 082513-1H

Other Comments:

PC Secondary Review: 6/27/13

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Upwind Dust Trak II Data 6-25-13.txt

TrakPro Version 4.51 ASCII Data File

Model : , DustTrak II
Model Number: , 8530
Serial Number: , 8530130716
Test ID: , 001
Test Abbreviation: , MANUAL_001
Start Date: , 06/25/2013
Start Time: , 08: 23: 13
Duration (dd: hh: mm: ss): , 0: 03: 45: 00
Log Interval (mm: ss): , 15: 00
Number of points: , 15
Notes: ,

Statistics, Channel : , AEROSOL
, Units: , mg/m³
, Average: , 0. 075
, Minimum: , 0. 021
, Time of Minimum: , 12: 08: 13
, Date of Minimum: , 06/25/2013
, Maximum: , 0. 223
, Time of Maximum: , 08: 38: 13
, Date of Maximum: , 06/25/2013

Calibration, Sensor: , AEROSOL
, Cal. date, 02/20/2013

Date, Time, AEROSOL
MM/dd/yyyy, hh: mm: ss, mg/m³
06/25/2013, 08: 38: 13, 0. 223
06/25/2013, 08: 53: 13, 0. 141
06/25/2013, 09: 08: 13, 0. 108
06/25/2013, 09: 23: 13, 0. 103
06/25/2013, 09: 38: 13, 0. 109
06/25/2013, 09: 53: 13, 0. 083
06/25/2013, 10: 08: 13, 0. 082
06/25/2013, 10: 23: 13, 0. 042
06/25/2013, 10: 38: 13, 0. 044
06/25/2013, 10: 53: 13, 0. 050
06/25/2013, 11: 08: 13, 0. 044
06/25/2013, 11: 23: 13, 0. 031
06/25/2013, 11: 38: 13, 0. 024
06/25/2013, 11: 53: 13, 0. 025
06/25/2013, 12: 08: 13, 0. 021

13/06/25 08:25

Summary

 Unit Name Mini RAE 3000
 Unit SN 592-907581
 Unit Firmware Ver V1.10C

Running Mode Hygiene Mode
 Measure Type Avg; Max; Real
 Datalog Mode Continuous
 Datalog Type Auto
 Diagnostic Mode No
 Stop Reason Power Down

Site ID 12345678
 User ID 12345678

Begin 2013/06/25 08:25:35
 End 2013/06/25 12:11:23
 Sample Period(s) 60
 Number of Records 225

Sensor VOC(ppm)
 Span 100.000
 Span 2 N/A
 Low Alarm 50.000
 High Alarm 100.000
 Over Alarm 15000.000
 STEL Alarm 25.000
 TWA Alarm 10.000
 Measurement Gas Isobutylene
 Calibration Time 2013/06/24 11:52
 Peak 0.283
 Min 0.000
 Average 0.046

Datalog

Index	Date/Time	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
001	2013/06/25 08:26:35	0.219	0.411	0.161
002	2013/06/25 08:27:35	0.141	0.185	0.132
003	2013/06/25 08:28:35	0.116	0.168	0.168
004	2013/06/25 08:29:35	0.107	0.230	0.071
005	2013/06/25 08:30:35	0.093	0.176	0.151
006	2013/06/25 08:31:35	0.089	0.165	0.087
007	2013/06/25 08:32:35	0.070	0.118	0.095
008	2013/06/25 08:33:35	0.073	0.146	0.038
009	2013/06/25 08:34:35	0.059	0.150	0.098
010	2013/06/25 08:35:35	0.058	0.136	0.046
011	2013/06/25 08:36:35	0.033	0.042	0.032
012	2013/06/25 08:37:35	0.033	0.043	0.034
013	2013/06/25 08:38:35	0.052	0.099	0.076
014	2013/06/25 08:39:35	0.047	0.105	0.037
015	2013/06/25 08:40:35	0.065	0.163	0.029
016	2013/06/25 08:41:35	0.027	0.033	0.028
017	2013/06/25 08:42:35	0.049	0.125	0.051
018	2013/06/25 08:43:35	0.044	0.073	0.060
019	2013/06/25 08:44:35	0.049	0.080	0.078
020	2013/06/25 08:45:35	0.051	0.133	0.039
021	2013/06/25 08:46:35	0.056	0.103	0.090
022	2013/06/25 08:47:35	0.041	0.078	0.033

Upwind PID_062513.txt

023	2013/06/25 08:48:35	0.045	0.113	0.029
024	2013/06/25 08:49:35	0.031	0.036	0.030
025	2013/06/25 08:50:35	0.029	0.033	0.030
026	2013/06/25 08:51:35	0.029	0.032	0.031
027	2013/06/25 08:52:35	0.036	0.061	0.026
028	2013/06/25 08:53:35	0.023	0.035	0.020
029	2013/06/25 08:54:35	0.029	0.063	0.022
030	2013/06/25 08:55:35	0.023	0.036	0.025
031	2013/06/25 08:56:35	0.015	0.032	0.030
032	2013/06/25 08:57:35	0.021	0.051	0.015
033	2013/06/25 08:58:35	0.016	0.053	0.007
034	2013/06/25 08:59:35	0.008	0.023	0.000
035	2013/06/25 09:00:35	0.000	0.005	0.000
036	2013/06/25 09:01:35	0.000	0.000	0.000
037	2013/06/25 09:02:35	0.000	0.000	0.000
038	2013/06/25 09:03:35	0.000	0.000	0.000
039	2013/06/25 09:04:35	0.000	0.003	0.000
040	2013/06/25 09:05:35	0.000	0.000	0.000
041	2013/06/25 09:06:35	0.001	0.017	0.000
042	2013/06/25 09:07:35	0.001	0.015	0.000
043	2013/06/25 09:08:35	0.006	0.023	0.000
044	2013/06/25 09:09:35	0.001	0.010	0.000
045	2013/06/25 09:10:35	0.004	0.036	0.006
046	2013/06/25 09:11:35	0.002	0.019	0.004
047	2013/06/25 09:12:35	0.002	0.031	0.000
048	2013/06/25 09:13:35	0.007	0.026	0.026
049	2013/06/25 09:14:35	0.013	0.029	0.011
050	2013/06/25 09:15:35	0.028	0.046	0.046
051	2013/06/25 09:16:35	0.018	0.046	0.004
052	2013/06/25 09:17:35	0.014	0.027	0.018
053	2013/06/25 09:18:35	0.018	0.033	0.024
054	2013/06/25 09:19:35	0.016	0.023	0.014
055	2013/06/25 09:20:35	0.011	0.019	0.006
056	2013/06/25 09:21:35	0.006	0.010	0.005
057	2013/06/25 09:22:35	0.002	0.007	0.002
058	2013/06/25 09:23:35	0.004	0.008	0.007
059	2013/06/25 09:24:35	0.005	0.011	0.004
060	2013/06/25 09:25:35	0.004	0.011	0.000
061	2013/06/25 09:26:35	0.001	0.005	0.002
062	2013/06/25 09:27:35	0.003	0.008	0.005
063	2013/06/25 09:28:35	0.004	0.011	0.008
064	2013/06/25 09:29:35	0.003	0.020	0.000
065	2013/06/25 09:30:35	0.004	0.014	0.010
066	2013/06/25 09:31:35	0.011	0.036	0.005
067	2013/06/25 09:32:35	0.003	0.009	0.003
068	2013/06/25 09:33:35	0.006	0.016	0.011
069	2013/06/25 09:34:35	0.004	0.011	0.003
070	2013/06/25 09:35:35	0.007	0.028	0.008
071	2013/06/25 09:36:35	0.006	0.012	0.006
072	2013/06/25 09:37:35	0.007	0.018	0.001
073	2013/06/25 09:38:35	0.014	0.030	0.015
074	2013/06/25 09:39:35	0.011	0.024	0.006
075	2013/06/25 09:40:35	0.004	0.008	0.003
076	2013/06/25 09:41:35	0.007	0.013	0.004
077	2013/06/25 09:42:35	0.007	0.017	0.004
078	2013/06/25 09:43:35	0.004	0.014	0.005
079	2013/06/25 09:44:35	0.003	0.011	0.004
080	2013/06/25 09:45:35	0.002	0.014	0.009
081	2013/06/25 09:46:35	0.008	0.014	0.007
082	2013/06/25 09:47:35	0.010	0.024	0.008
083	2013/06/25 09:48:35	0.010	0.022	0.019
084	2013/06/25 09:49:35	0.015	0.035	0.019
085	2013/06/25 09:50:35	0.019	0.029	0.020

Upwi nd PID 062513. txt

086	2013/06/25	09: 51: 35	0. 017	0. 025	0. 021
087	2013/06/25	09: 52: 35	0. 023	0. 032	0. 023
088	2013/06/25	09: 53: 35	0. 023	0. 032	0. 028
089	2013/06/25	09: 54: 35	0. 028	0. 037	0. 030
090	2013/06/25	09: 55: 35	0. 027	0. 037	0. 029
091	2013/06/25	09: 56: 35	0. 034	0. 039	0. 038
092	2013/06/25	09: 57: 35	0. 029	0. 037	0. 027
093	2013/06/25	09: 58: 35	0. 027	0. 039	0. 027
094	2013/06/25	09: 59: 35	0. 035	0. 054	0. 035
095	2013/06/25	10: 00: 35	0. 033	0. 042	0. 037
096	2013/06/25	10: 01: 35	0. 033	0. 042	0. 036
097	2013/06/25	10: 02: 35	0. 030	0. 037	0. 029
098	2013/06/25	10: 03: 35	0. 033	0. 042	0. 026
099	2013/06/25	10: 04: 35	0. 029	0. 037	0. 031
100	2013/06/25	10: 05: 35	0. 025	0. 038	0. 021
101	2013/06/25	10: 06: 35	0. 019	0. 023	0. 012
102	2013/06/25	10: 07: 35	0. 013	0. 018	0. 011
103	2013/06/25	10: 08: 35	0. 010	0. 017	0. 011
104	2013/06/25	10: 09: 35	0. 009	0. 014	0. 009
105	2013/06/25	10: 10: 35	0. 011	0. 025	0. 014
106	2013/06/25	10: 11: 35	0. 017	0. 025	0. 022
107	2013/06/25	10: 12: 35	0. 020	0. 028	0. 023
108	2013/06/25	10: 13: 35	0. 025	0. 034	0. 026
109	2013/06/25	10: 14: 35	0. 030	0. 035	0. 031
110	2013/06/25	10: 15: 35	0. 028	0. 031	0. 027
111	2013/06/25	10: 16: 35	0. 025	0. 031	0. 023
112	2013/06/25	10: 17: 35	0. 024	0. 027	0. 026
113	2013/06/25	10: 18: 35	0. 021	0. 026	0. 020
114	2013/06/25	10: 19: 35	0. 016	0. 021	0. 010
115	2013/06/25	10: 20: 35	0. 008	0. 013	0. 004
116	2013/06/25	10: 21: 35	0. 007	0. 012	0. 003
117	2013/06/25	10: 22: 35	0. 003	0. 010	0. 003
118	2013/06/25	10: 23: 35	0. 000	0. 004	0. 000
119	2013/06/25	10: 24: 35	0. 000	0. 002	0. 002
120	2013/06/25	10: 25: 35	0. 000	0. 001	0. 000
121	2013/06/25	10: 26: 35	0. 000	0. 000	0. 000
122	2013/06/25	10: 27: 35	0. 000	0. 000	0. 000
123	2013/06/25	10: 28: 35	0. 000	0. 000	0. 000
124	2013/06/25	10: 29: 35	0. 000	0. 000	0. 000
125	2013/06/25	10: 30: 35	0. 000	0. 000	0. 000
126	2013/06/25	10: 31: 35	0. 000	0. 000	0. 000
127	2013/06/25	10: 32: 35	0. 000	0. 000	0. 000
128	2013/06/25	10: 33: 35	0. 000	0. 000	0. 000
129	2013/06/25	10: 34: 35	0. 000	0. 000	0. 000
130	2013/06/25	10: 35: 35	0. 000	0. 000	0. 000
131	2013/06/25	10: 36: 35	0. 000	0. 000	0. 000
132	2013/06/25	10: 37: 35	0. 000	0. 000	0. 000
133	2013/06/25	10: 38: 35	0. 000	0. 000	0. 000
134	2013/06/25	10: 39: 35	0. 000	0. 000	0. 000
135	2013/06/25	10: 40: 35	0. 000	0. 000	0. 000
136	2013/06/25	10: 41: 35	0. 000	0. 000	0. 000
137	2013/06/25	10: 42: 35	0. 000	0. 000	0. 000
138	2013/06/25	10: 43: 35	0. 000	0. 000	0. 000
139	2013/06/25	10: 44: 35	0. 000	0. 000	0. 000
140	2013/06/25	10: 45: 35	0. 000	0. 000	0. 000
141	2013/06/25	10: 46: 35	0. 000	0. 000	0. 000
142	2013/06/25	10: 47: 35	0. 000	0. 000	0. 000
143	2013/06/25	10: 48: 35	0. 000	0. 000	0. 000
144	2013/06/25	10: 49: 35	0. 000	0. 000	0. 000
145	2013/06/25	10: 50: 35	0. 000	0. 000	0. 000
146	2013/06/25	10: 51: 35	0. 000	0. 000	0. 000
147	2013/06/25	10: 52: 35	0. 000	0. 000	0. 000
148	2013/06/25	10: 53: 35	0. 000	0. 000	0. 000

Upwind PID 062513.txt

149	2013/06/25	10: 54: 35	0.000	0.000	0.000
150	2013/06/25	10: 55: 35	0.000	0.000	0.000
151	2013/06/25	10: 56: 35	0.000	0.000	0.000
152	2013/06/25	10: 57: 35	0.000	0.000	0.000
153	2013/06/25	10: 58: 35	0.000	0.000	0.000
154	2013/06/25	10: 59: 35	0.000	0.000	0.000
155	2013/06/25	11: 00: 35	0.000	0.000	0.000
156	2013/06/25	11: 01: 35	0.000	0.000	0.000
157	2013/06/25	11: 02: 35	0.000	0.000	0.000
158	2013/06/25	11: 03: 35	0.000	0.000	0.000
159	2013/06/25	11: 04: 35	0.000	0.000	0.000
160	2013/06/25	11: 05: 35	0.000	0.004	0.000
161	2013/06/25	11: 06: 35	0.000	0.002	0.000
162	2013/06/25	11: 07: 35	0.001	0.004	0.001
163	2013/06/25	11: 08: 35	0.001	0.005	0.000
164	2013/06/25	11: 09: 35	0.003	0.009	0.008
165	2013/06/25	11: 10: 35	0.008	0.013	0.003
166	2013/06/25	11: 11: 35	0.013	0.023	0.012
167	2013/06/25	11: 12: 35	0.013	0.019	0.019
168	2013/06/25	11: 13: 35	0.019	0.029	0.026
169	2013/06/25	11: 14: 35	0.023	0.031	0.021
170	2013/06/25	11: 15: 35	0.028	0.035	0.033
171	2013/06/25	11: 16: 35	0.033	0.041	0.033
172	2013/06/25	11: 17: 35	0.032	0.040	0.038
173	2013/06/25	11: 18: 35	0.037	0.045	0.034
174	2013/06/25	11: 19: 35	0.040	0.044	0.039
175	2013/06/25	11: 20: 35	0.041	0.052	0.032
176	2013/06/25	11: 21: 35	0.038	0.046	0.046
177	2013/06/25	11: 22: 35	0.046	0.054	0.052
178	2013/06/25	11: 23: 35	0.044	0.059	0.043
179	2013/06/25	11: 24: 35	0.049	0.058	0.053
180	2013/06/25	11: 25: 35	0.051	0.057	0.053
181	2013/06/25	11: 26: 35	0.057	0.066	0.062
182	2013/06/25	11: 27: 35	0.063	0.067	0.063
183	2013/06/25	11: 28: 35	0.068	0.075	0.075
184	2013/06/25	11: 29: 35	0.075	0.079	0.077
185	2013/06/25	11: 30: 35	0.074	0.081	0.077
186	2013/06/25	11: 31: 35	0.077	0.082	0.082
187	2013/06/25	11: 32: 35	0.082	0.087	0.079
188	2013/06/25	11: 33: 35	0.086	0.099	0.090
189	2013/06/25	11: 34: 35	0.086	0.093	0.086
190	2013/06/25	11: 35: 35	0.088	0.096	0.087
191	2013/06/25	11: 36: 35	0.093	0.102	0.102
192	2013/06/25	11: 37: 35	0.094	0.100	0.095
193	2013/06/25	11: 38: 35	0.098	0.103	0.101
194	2013/06/25	11: 39: 35	0.102	0.111	0.103
195	2013/06/25	11: 40: 35	0.109	0.115	0.115
196	2013/06/25	11: 41: 35	0.117	0.125	0.120
197	2013/06/25	11: 42: 35	0.124	0.129	0.128
198	2013/06/25	11: 43: 35	0.129	0.137	0.137
199	2013/06/25	11: 44: 35	0.128	0.135	0.133
200	2013/06/25	11: 45: 35	0.129	0.137	0.134
201	2013/06/25	11: 46: 35	0.133	0.139	0.137
202	2013/06/25	11: 47: 35	0.134	0.140	0.137
203	2013/06/25	11: 48: 35	0.138	0.148	0.144
204	2013/06/25	11: 49: 35	0.139	0.143	0.138
205	2013/06/25	11: 50: 35	0.142	0.149	0.144
206	2013/06/25	11: 51: 35	0.142	0.153	0.148
207	2013/06/25	11: 52: 35	0.143	0.150	0.145
208	2013/06/25	11: 53: 35	0.142	0.155	0.145
209	2013/06/25	11: 54: 35	0.149	0.160	0.147
210	2013/06/25	11: 55: 35	0.152	0.168	0.156
211	2013/06/25	11: 56: 35	0.163	0.173	0.168

Upwind PID_062513.txt

212	2013/06/25	11: 57: 35	0. 177	0. 185	0. 185
213	2013/06/25	11: 58: 35	0. 189	0. 200	0. 195
214	2013/06/25	11: 59: 35	0. 200	0. 211	0. 210
215	2013/06/25	12: 00: 35	0. 207	0. 218	0. 218
216	2013/06/25	12: 01: 35	0. 215	0. 224	0. 220
217	2013/06/25	12: 02: 35	0. 224	0. 234	0. 229
218	2013/06/25	12: 03: 35	0. 234	0. 244	0. 233
219	2013/06/25	12: 04: 35	0. 237	0. 259	0. 244
220	2013/06/25	12: 05: 35	0. 244	0. 256	0. 252
221	2013/06/25	12: 06: 35	0. 252	0. 267	0. 254
222	2013/06/25	12: 07: 35	0. 261	0. 279	0. 279
223	2013/06/25	12: 08: 35	0. 265	0. 276	0. 267
224	2013/06/25	12: 09: 35	0. 275	0. 295	0. 283
225	2013/06/25	12: 10: 35	0. 277	0. 290	0. 275
Peak		0. 277 0. 411	0. 283		
Min		0. 000 0. 000	0. 000		
Average		0. 045 0. 059	0. 046		

TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
001	2013/06/25 08: 26: 35	0. 000	---
002	2013/06/25 08: 27: 35	0. 001	---
003	2013/06/25 08: 28: 35	0. 001	---
004	2013/06/25 08: 29: 35	0. 001	---
005	2013/06/25 08: 30: 35	0. 001	---
006	2013/06/25 08: 31: 35	0. 002	---
007	2013/06/25 08: 32: 35	0. 002	---
008	2013/06/25 08: 33: 35	0. 002	---
009	2013/06/25 08: 34: 35	0. 002	---
010	2013/06/25 08: 35: 35	0. 002	---
011	2013/06/25 08: 36: 35	0. 002	---
012	2013/06/25 08: 37: 35	0. 002	---
013	2013/06/25 08: 38: 35	0. 002	---
014	2013/06/25 08: 39: 35	0. 003	---
015	2013/06/25 08: 40: 35	0. 003	0. 084
016	2013/06/25 08: 41: 35	0. 003	0. 075
017	2013/06/25 08: 42: 35	0. 003	0. 069
018	2013/06/25 08: 43: 35	0. 003	0. 062
019	2013/06/25 08: 44: 35	0. 003	0. 063
020	2013/06/25 08: 45: 35	0. 003	0. 055
021	2013/06/25 08: 46: 35	0. 003	0. 055
022	2013/06/25 08: 47: 35	0. 003	0. 051
023	2013/06/25 08: 48: 35	0. 003	0. 051
024	2013/06/25 08: 49: 35	0. 004	0. 046
025	2013/06/25 08: 50: 35	0. 004	0. 045
026	2013/06/25 08: 51: 35	0. 004	0. 045
027	2013/06/25 08: 52: 35	0. 004	0. 044
028	2013/06/25 08: 53: 35	0. 004	0. 041
029	2013/06/25 08: 54: 35	0. 004	0. 040
030	2013/06/25 08: 55: 35	0. 004	0. 039
031	2013/06/25 08: 56: 35	0. 004	0. 040
032	2013/06/25 08: 57: 35	0. 004	0. 037
033	2013/06/25 08: 58: 35	0. 004	0. 034
034	2013/06/25 08: 59: 35	0. 004	0. 028
035	2013/06/25 09: 00: 35	0. 004	0. 026
036	2013/06/25 09: 01: 35	0. 004	0. 020
037	2013/06/25 09: 02: 35	0. 004	0. 018
038	2013/06/25 09: 03: 35	0. 004	0. 016
039	2013/06/25 09: 04: 35	0. 004	0. 014
040	2013/06/25 09: 05: 35	0. 004	0. 012
041	2013/06/25 09: 06: 35	0. 004	0. 010
042	2013/06/25 09: 07: 35	0. 004	0. 008

043	2013/06/25	09:08:35	0.004	0.007
044	2013/06/25	09:09:35	0.004	0.005
045	2013/06/25	09:10:35	0.004	0.004
046	2013/06/25	09:11:35	0.004	0.002
047	2013/06/25	09:12:35	0.004	0.001
048	2013/06/25	09:13:35	0.004	0.002
049	2013/06/25	09:14:35	0.004	0.003
050	2013/06/25	09:15:35	0.004	0.006
051	2013/06/25	09:16:35	0.004	0.006
052	2013/06/25	09:17:35	0.004	0.008
053	2013/06/25	09:18:35	0.004	0.009
054	2013/06/25	09:19:35	0.004	0.010
055	2013/06/25	09:20:35	0.004	0.011
056	2013/06/25	09:21:35	0.004	0.011
057	2013/06/25	09:22:35	0.004	0.011
058	2013/06/25	09:23:35	0.004	0.012
059	2013/06/25	09:24:35	0.004	0.012
060	2013/06/25	09:25:35	0.004	0.011
061	2013/06/25	09:26:35	0.004	0.011
062	2013/06/25	09:27:35	0.004	0.012
063	2013/06/25	09:28:35	0.004	0.010
064	2013/06/25	09:29:35	0.004	0.010
065	2013/06/25	09:30:35	0.004	0.007
066	2013/06/25	09:31:35	0.004	0.007
067	2013/06/25	09:32:35	0.004	0.006
068	2013/06/25	09:33:35	0.004	0.005
069	2013/06/25	09:34:35	0.004	0.005
070	2013/06/25	09:35:35	0.004	0.005
071	2013/06/25	09:36:35	0.004	0.005
072	2013/06/25	09:37:35	0.004	0.005
073	2013/06/25	09:38:35	0.004	0.005
074	2013/06/25	09:39:35	0.004	0.006
075	2013/06/25	09:40:35	0.005	0.006
076	2013/06/25	09:41:35	0.005	0.006
077	2013/06/25	09:42:35	0.005	0.006
078	2013/06/25	09:43:35	0.005	0.006
079	2013/06/25	09:44:35	0.005	0.006
080	2013/06/25	09:45:35	0.005	0.006
081	2013/06/25	09:46:35	0.005	0.006
082	2013/06/25	09:47:35	0.005	0.006
083	2013/06/25	09:48:35	0.005	0.007
084	2013/06/25	09:49:35	0.005	0.008
085	2013/06/25	09:50:35	0.005	0.009
086	2013/06/25	09:51:35	0.005	0.010
087	2013/06/25	09:52:35	0.005	0.011
088	2013/06/25	09:53:35	0.005	0.012
089	2013/06/25	09:54:35	0.005	0.014
090	2013/06/25	09:55:35	0.005	0.015
091	2013/06/25	09:56:35	0.005	0.018
092	2013/06/25	09:57:35	0.005	0.019
093	2013/06/25	09:58:35	0.005	0.021
094	2013/06/25	09:59:35	0.005	0.023
095	2013/06/25	10:00:35	0.005	0.025
096	2013/06/25	10:01:35	0.005	0.026
097	2013/06/25	10:02:35	0.005	0.028
098	2013/06/25	10:03:35	0.006	0.028
099	2013/06/25	10:04:35	0.006	0.029
100	2013/06/25	10:05:35	0.006	0.029
101	2013/06/25	10:06:35	0.006	0.029
102	2013/06/25	10:07:35	0.006	0.028
103	2013/06/25	10:08:35	0.006	0.027
104	2013/06/25	10:09:35	0.006	0.025
105	2013/06/25	10:10:35	0.006	0.024

106	2013/06/25	10: 11: 35	0.006	0.023
107	2013/06/25	10: 12: 35	0.006	0.023
108	2013/06/25	10: 13: 35	0.006	0.023
109	2013/06/25	10: 14: 35	0.006	0.023
110	2013/06/25	10: 15: 35	0.006	0.022
111	2013/06/25	10: 16: 35	0.006	0.021
112	2013/06/25	10: 17: 35	0.006	0.021
113	2013/06/25	10: 18: 35	0.006	0.020
114	2013/06/25	10: 19: 35	0.006	0.019
115	2013/06/25	10: 20: 35	0.006	0.018
116	2013/06/25	10: 21: 35	0.006	0.017
117	2013/06/25	10: 22: 35	0.006	0.017
118	2013/06/25	10: 23: 35	0.006	0.016
119	2013/06/25	10: 24: 35	0.006	0.016
120	2013/06/25	10: 25: 35	0.006	0.015
121	2013/06/25	10: 26: 35	0.006	0.013
122	2013/06/25	10: 27: 35	0.006	0.012
123	2013/06/25	10: 28: 35	0.006	0.010
124	2013/06/25	10: 29: 35	0.006	0.008
125	2013/06/25	10: 30: 35	0.006	0.006
126	2013/06/25	10: 31: 35	0.006	0.005
127	2013/06/25	10: 32: 35	0.006	0.003
128	2013/06/25	10: 33: 35	0.006	0.001
129	2013/06/25	10: 34: 35	0.006	0.001
130	2013/06/25	10: 35: 35	0.006	0.001
131	2013/06/25	10: 36: 35	0.006	0.000
132	2013/06/25	10: 37: 35	0.006	0.000
133	2013/06/25	10: 38: 35	0.006	0.000
134	2013/06/25	10: 39: 35	0.006	0.000
135	2013/06/25	10: 40: 35	0.006	0.000
136	2013/06/25	10: 41: 35	0.006	0.000
137	2013/06/25	10: 42: 35	0.006	0.000
138	2013/06/25	10: 43: 35	0.006	0.000
139	2013/06/25	10: 44: 35	0.006	0.000
140	2013/06/25	10: 45: 35	0.006	0.000
141	2013/06/25	10: 46: 35	0.006	0.000
142	2013/06/25	10: 47: 35	0.006	0.000
143	2013/06/25	10: 48: 35	0.006	0.000
144	2013/06/25	10: 49: 35	0.006	0.000
145	2013/06/25	10: 50: 35	0.006	0.000
146	2013/06/25	10: 51: 35	0.006	0.000
147	2013/06/25	10: 52: 35	0.006	0.000
148	2013/06/25	10: 53: 35	0.006	0.000
149	2013/06/25	10: 54: 35	0.006	0.000
150	2013/06/25	10: 55: 35	0.006	0.000
151	2013/06/25	10: 56: 35	0.006	0.000
152	2013/06/25	10: 57: 35	0.006	0.000
153	2013/06/25	10: 58: 35	0.006	0.000
154	2013/06/25	10: 59: 35	0.006	0.000
155	2013/06/25	11: 00: 35	0.006	0.000
156	2013/06/25	11: 01: 35	0.006	0.000
157	2013/06/25	11: 02: 35	0.006	0.000
158	2013/06/25	11: 03: 35	0.006	0.000
159	2013/06/25	11: 04: 35	0.006	0.000
160	2013/06/25	11: 05: 35	0.006	0.000
161	2013/06/25	11: 06: 35	0.006	0.000
162	2013/06/25	11: 07: 35	0.006	0.000
163	2013/06/25	11: 08: 35	0.006	0.000
164	2013/06/25	11: 09: 35	0.006	0.001
165	2013/06/25	11: 10: 35	0.006	0.001
166	2013/06/25	11: 11: 35	0.006	0.002
167	2013/06/25	11: 12: 35	0.006	0.003
168	2013/06/25	11: 13: 35	0.006	0.005

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169	2013/06/25	11: 14: 35	0. 006	0. 006
170	2013/06/25	11: 15: 35	0. 006	0. 008
171	2013/06/25	11: 16: 35	0. 007	0. 010
172	2013/06/25	11: 17: 35	0. 007	0. 013
173	2013/06/25	11: 18: 35	0. 007	0. 015
174	2013/06/25	11: 19: 35	0. 007	0. 018
175	2013/06/25	11: 20: 35	0. 007	0. 020
176	2013/06/25	11: 21: 35	0. 007	0. 023
177	2013/06/25	11: 22: 35	0. 007	0. 026
178	2013/06/25	11: 23: 35	0. 007	0. 029
179	2013/06/25	11: 24: 35	0. 007	0. 032
180	2013/06/25	11: 25: 35	0. 007	0. 036
181	2013/06/25	11: 26: 35	0. 007	0. 039
182	2013/06/25	11: 27: 35	0. 008	0. 042
183	2013/06/25	11: 28: 35	0. 008	0. 045
184	2013/06/25	11: 29: 35	0. 008	0. 049
185	2013/06/25	11: 30: 35	0. 008	0. 052
186	2013/06/25	11: 31: 35	0. 008	0. 055
187	2013/06/25	11: 32: 35	0. 008	0. 058
188	2013/06/25	11: 33: 35	0. 009	0. 062
189	2013/06/25	11: 34: 35	0. 009	0. 065
190	2013/06/25	11: 35: 35	0. 009	0. 068
191	2013/06/25	11: 36: 35	0. 009	0. 072
192	2013/06/25	11: 37: 35	0. 009	0. 075
193	2013/06/25	11: 38: 35	0. 010	0. 079
194	2013/06/25	11: 39: 35	0. 010	0. 082
195	2013/06/25	11: 40: 35	0. 010	0. 086
196	2013/06/25	11: 41: 35	0. 010	0. 090
197	2013/06/25	11: 42: 35	0. 011	0. 094
198	2013/06/25	11: 43: 35	0. 011	0. 099
199	2013/06/25	11: 44: 35	0. 011	0. 102
200	2013/06/25	11: 45: 35	0. 011	0. 106
201	2013/06/25	11: 46: 35	0. 012	0. 110
202	2013/06/25	11: 47: 35	0. 012	0. 114
203	2013/06/25	11: 48: 35	0. 012	0. 117
204	2013/06/25	11: 49: 35	0. 013	0. 121
205	2013/06/25	11: 50: 35	0. 013	0. 125
206	2013/06/25	11: 51: 35	0. 013	0. 128
207	2013/06/25	11: 52: 35	0. 013	0. 131
208	2013/06/25	11: 53: 35	0. 014	0. 134
209	2013/06/25	11: 54: 35	0. 014	0. 137
210	2013/06/25	11: 55: 35	0. 014	0. 140
211	2013/06/25	11: 56: 35	0. 015	0. 143
212	2013/06/25	11: 57: 35	0. 015	0. 147
213	2013/06/25	11: 58: 35	0. 016	0. 150
214	2013/06/25	11: 59: 35	0. 016	0. 156
215	2013/06/25	12: 00: 35	0. 016	0. 161
216	2013/06/25	12: 01: 35	0. 017	0. 167
217	2013/06/25	12: 02: 35	0. 017	0. 173
218	2013/06/25	12: 03: 35	0. 018	0. 179
219	2013/06/25	12: 04: 35	0. 018	0. 186
220	2013/06/25	12: 05: 35	0. 019	0. 193
221	2013/06/25	12: 06: 35	0. 019	0. 200
222	2013/06/25	12: 07: 35	0. 020	0. 209
223	2013/06/25	12: 08: 35	0. 021	0. 217
224	2013/06/25	12: 09: 35	0. 021	0. 226
225	2013/06/25	12: 10: 35	0. 022	0. 234

TrakPro Version 4.51 ASCII Data File

Model : , DustTrak II
Model Number: , 8530
Serial Number: , 8530121421
Test ID: , 001
Test Abbreviation: , MANUAL_001
Start Date: , 06/25/2013
Start Time: , 08: 21: 23
Duration (dd: hh: mm: ss): , 0: 03: 45: 00
Log Interval (mm: ss): , 15: 00
Number of points: , 15
Notes: ,

Statistics, Channel : , AEROSOL
, Units: , mg/m³
, Average: , 0. 047
, Minimum: , 0. 017
, Time of Minimum: , 12: 06: 23
, Date of Minimum: , 06/25/2013
, Maximum: , 0. 080
, Time of Maximum: , 08: 36: 23
, Date of Maximum: , 06/25/2013

Calibration, Sensor: , AEROSOL
, Cal. date, 02/21/2013

Date, Time, AEROSOL
MM/dd/yyyy, hh: mm: ss, mg/m³
06/25/2013, 08: 36: 23, 0. 080
06/25/2013, 08: 51: 23, 0. 075
06/25/2013, 09: 06: 23, 0. 068
06/25/2013, 09: 21: 23, 0. 064
06/25/2013, 09: 36: 23, 0. 061
06/25/2013, 09: 51: 23, 0. 059
06/25/2013, 10: 06: 23, 0. 059
06/25/2013, 10: 21: 23, 0. 040
06/25/2013, 10: 36: 23, 0. 038
06/25/2013, 10: 51: 23, 0. 041
06/25/2013, 11: 06: 23, 0. 039
06/25/2013, 11: 21: 23, 0. 025
06/25/2013, 11: 36: 23, 0. 020
06/25/2013, 11: 51: 23, 0. 021
06/25/2013, 12: 06: 23, 0. 017

13/06/25 08:19

Summary

 Unit Name MiniRAE 3000
 Unit SN 592-909736
 Unit Firmware Ver V1.20

Running Mode Hygiene Mode
 Measure Type Avg; Max; Real
 Datalog Mode Continuous
 Datalog Type Auto
 Diagnostic Mode No
 Stop Reason Power Down

Site ID 12345678
 User ID 12345678

Begin 2013/06/25 08:19:49
 End 2013/06/25 12:16:09
 Sample Period(s) 60
 Number of Records 236

Sensor VOC(ppm)
 Span 100.000
 Span 2 N/A
 Low Alarm 50.000
 High Alarm 100.000
 Over Alarm 15000.000
 STEL Alarm 25.000
 TWA Alarm 10.000
 Measurement Gas Isobutylene
 Calibration Time 2013/06/24 11:20
 Peak 0.439
 Min 0.000
 Average 0.162

Datalog

Index	Date/Time	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
001	2013/06/25 08:20:49	0.030	0.105	0.000
002	2013/06/25 08:21:49	0.000	0.000	0.000
003	2013/06/25 08:22:49	0.236	0.760	0.228
004	2013/06/25 08:23:49	0.176	0.224	0.140
005	2013/06/25 08:24:49	0.119	0.139	0.104
006	2013/06/25 08:25:49	0.092	0.104	0.081
007	2013/06/25 08:26:49	0.074	0.082	0.071
008	2013/06/25 08:27:49	0.064	0.070	0.060
009	2013/06/25 08:28:49	0.056	0.060	0.053
010	2013/06/25 08:29:49	0.049	0.052	0.045
011	2013/06/25 08:30:49	0.044	0.047	0.043
012	2013/06/25 08:31:49	0.043	0.045	0.042
013	2013/06/25 08:32:49	0.038	0.043	0.036
014	2013/06/25 08:33:49	0.036	0.040	0.035
015	2013/06/25 08:34:49	0.034	0.037	0.035
016	2013/06/25 08:35:49	0.031	0.036	0.027
017	2013/06/25 08:36:49	0.029	0.032	0.031
018	2013/06/25 08:37:49	0.029	0.034	0.030
019	2013/06/25 08:38:49	0.028	0.030	0.028
020	2013/06/25 08:39:49	0.023	0.029	0.023
021	2013/06/25 08:40:49	0.023	0.027	0.026
022	2013/06/25 08:41:49	0.023	0.027	0.023

Downwind PID_062513.txt

023	2013/06/25 08: 42: 49	0. 022	0. 025	0. 023
024	2013/06/25 08: 43: 49	0. 023	0. 027	0. 018
025	2013/06/25 08: 44: 49	0. 023	0. 028	0. 021
026	2013/06/25 08: 45: 49	0. 019	0. 025	0. 016
027	2013/06/25 08: 46: 49	0. 019	0. 024	0. 017
028	2013/06/25 08: 47: 49	0. 022	0. 025	0. 021
029	2013/06/25 08: 48: 49	0. 020	0. 024	0. 024
030	2013/06/25 08: 49: 49	0. 022	0. 027	0. 021
031	2013/06/25 08: 50: 49	0. 022	0. 026	0. 022
032	2013/06/25 08: 51: 49	0. 024	0. 028	0. 023
033	2013/06/25 08: 52: 49	0. 020	0. 025	0. 025
034	2013/06/25 08: 53: 49	0. 023	0. 026	0. 022
035	2013/06/25 08: 54: 49	0. 020	0. 025	0. 018
036	2013/06/25 08: 55: 49	0. 018	0. 022	0. 019
037	2013/06/25 08: 56: 49	0. 019	0. 025	0. 025
038	2013/06/25 08: 57: 49	0. 020	0. 026	0. 017
039	2013/06/25 08: 58: 49	0. 017	0. 023	0. 016
040	2013/06/25 08: 59: 49	0. 016	0. 019	0. 016
041	2013/06/25 09: 00: 49	0. 017	0. 020	0. 019
042	2013/06/25 09: 01: 49	0. 016	0. 023	0. 019
043	2013/06/25 09: 02: 49	0. 015	0. 020	0. 020
044	2013/06/25 09: 03: 49	0. 019	0. 029	0. 029
045	2013/06/25 09: 04: 49	0. 025	0. 032	0. 030
046	2013/06/25 09: 05: 49	0. 026	0. 030	0. 030
047	2013/06/25 09: 06: 49	0. 030	0. 034	0. 034
048	2013/06/25 09: 07: 49	0. 036	0. 041	0. 037
049	2013/06/25 09: 08: 49	0. 038	0. 044	0. 040
050	2013/06/25 09: 09: 49	0. 042	0. 046	0. 037
051	2013/06/25 09: 10: 49	0. 040	0. 046	0. 046
052	2013/06/25 09: 11: 49	0. 044	0. 047	0. 040
053	2013/06/25 09: 12: 49	0. 047	0. 063	0. 054
054	2013/06/25 09: 13: 49	0. 072	0. 123	0. 083
055	2013/06/25 09: 14: 49	0. 084	0. 122	0. 104
056	2013/06/25 09: 15: 49	0. 077	0. 111	0. 058
057	2013/06/25 09: 16: 49	0. 071	0. 124	0. 079
058	2013/06/25 09: 17: 49	0. 089	0. 135	0. 082
059	2013/06/25 09: 18: 49	0. 073	0. 083	0. 068
060	2013/06/25 09: 19: 49	0. 065	0. 079	0. 066
061	2013/06/25 09: 20: 49	0. 062	0. 071	0. 063
062	2013/06/25 09: 21: 49	0. 060	0. 065	0. 064
063	2013/06/25 09: 22: 49	0. 066	0. 074	0. 072
064	2013/06/25 09: 23: 49	0. 073	0. 083	0. 072
065	2013/06/25 09: 24: 49	0. 072	0. 081	0. 065
066	2013/06/25 09: 25: 49	0. 067	0. 075	0. 073
067	2013/06/25 09: 26: 49	0. 069	0. 075	0. 067
068	2013/06/25 09: 27: 49	0. 072	0. 077	0. 075
069	2013/06/25 09: 28: 49	0. 072	0. 078	0. 078
070	2013/06/25 09: 29: 49	0. 078	0. 081	0. 075
071	2013/06/25 09: 30: 49	0. 086	0. 095	0. 085
072	2013/06/25 09: 31: 49	0. 088	0. 098	0. 083
073	2013/06/25 09: 32: 49	0. 081	0. 101	0. 101
074	2013/06/25 09: 33: 49	0. 092	0. 111	0. 083
075	2013/06/25 09: 34: 49	0. 091	0. 104	0. 104
076	2013/06/25 09: 35: 49	0. 099	0. 110	0. 104
077	2013/06/25 09: 36: 49	0. 098	0. 106	0. 097
078	2013/06/25 09: 37: 49	0. 097	0. 100	0. 098
079	2013/06/25 09: 38: 49	0. 104	0. 115	0. 098
080	2013/06/25 09: 39: 49	0. 098	0. 102	0. 099
081	2013/06/25 09: 40: 49	0. 106	0. 127	0. 127
082	2013/06/25 09: 41: 49	0. 105	0. 124	0. 106
083	2013/06/25 09: 42: 49	0. 103	0. 113	0. 111
084	2013/06/25 09: 43: 49	0. 105	0. 111	0. 105
085	2013/06/25 09: 44: 49	0. 105	0. 109	0. 106

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086	2013/06/25	09: 45: 49	0. 107	0. 110	0. 108
087	2013/06/25	09: 46: 49	0. 110	0. 118	0. 108
088	2013/06/25	09: 47: 49	0. 109	0. 115	0. 108
089	2013/06/25	09: 48: 49	0. 118	0. 126	0. 120
090	2013/06/25	09: 49: 49	0. 122	0. 128	0. 126
091	2013/06/25	09: 50: 49	0. 130	0. 137	0. 129
092	2013/06/25	09: 51: 49	0. 135	0. 144	0. 138
093	2013/06/25	09: 52: 49	0. 138	0. 144	0. 132
094	2013/06/25	09: 53: 49	0. 142	0. 155	0. 141
095	2013/06/25	09: 54: 49	0. 149	0. 158	0. 156
096	2013/06/25	09: 55: 49	0. 155	0. 162	0. 152
097	2013/06/25	09: 56: 49	0. 149	0. 156	0. 150
098	2013/06/25	09: 57: 49	0. 150	0. 153	0. 151
099	2013/06/25	09: 58: 49	0. 155	0. 170	0. 159
100	2013/06/25	09: 59: 49	0. 159	0. 167	0. 160
101	2013/06/25	10: 00: 49	0. 155	0. 161	0. 157
102	2013/06/25	10: 01: 49	0. 156	0. 161	0. 158
103	2013/06/25	10: 02: 49	0. 160	0. 163	0. 160
104	2013/06/25	10: 03: 49	0. 158	0. 165	0. 155
105	2013/06/25	10: 04: 49	0. 153	0. 161	0. 154
106	2013/06/25	10: 05: 49	0. 153	0. 158	0. 151
107	2013/06/25	10: 06: 49	0. 147	0. 153	0. 146
108	2013/06/25	10: 07: 49	0. 142	0. 146	0. 140
109	2013/06/25	10: 08: 49	0. 137	0. 141	0. 135
110	2013/06/25	10: 09: 49	0. 138	0. 145	0. 144
111	2013/06/25	10: 10: 49	0. 141	0. 144	0. 140
112	2013/06/25	10: 11: 49	0. 144	0. 148	0. 142
113	2013/06/25	10: 12: 49	0. 142	0. 146	0. 143
114	2013/06/25	10: 13: 49	0. 145	0. 149	0. 146
115	2013/06/25	10: 14: 49	0. 147	0. 150	0. 150
116	2013/06/25	10: 15: 49	0. 146	0. 151	0. 148
117	2013/06/25	10: 16: 49	0. 148	0. 153	0. 150
118	2013/06/25	10: 17: 49	0. 145	0. 150	0. 146
119	2013/06/25	10: 18: 49	0. 146	0. 151	0. 146
120	2013/06/25	10: 19: 49	0. 143	0. 146	0. 144
121	2013/06/25	10: 20: 49	0. 142	0. 144	0. 144
122	2013/06/25	10: 21: 49	0. 141	0. 144	0. 143
123	2013/06/25	10: 22: 49	0. 140	0. 144	0. 141
124	2013/06/25	10: 23: 49	0. 140	0. 143	0. 142
125	2013/06/25	10: 24: 49	0. 138	0. 141	0. 135
126	2013/06/25	10: 25: 49	0. 139	0. 144	0. 139
127	2013/06/25	10: 26: 49	0. 139	0. 143	0. 140
128	2013/06/25	10: 27: 49	0. 140	0. 145	0. 142
129	2013/06/25	10: 28: 49	0. 141	0. 145	0. 140
130	2013/06/25	10: 29: 49	0. 144	0. 148	0. 144
131	2013/06/25	10: 30: 49	0. 143	0. 147	0. 140
132	2013/06/25	10: 31: 49	0. 144	0. 149	0. 144
133	2013/06/25	10: 32: 49	0. 145	0. 148	0. 144
134	2013/06/25	10: 33: 49	0. 148	0. 151	0. 149
135	2013/06/25	10: 34: 49	0. 149	0. 155	0. 153
136	2013/06/25	10: 35: 49	0. 151	0. 158	0. 158
137	2013/06/25	10: 36: 49	0. 154	0. 160	0. 156
138	2013/06/25	10: 37: 49	0. 155	0. 159	0. 156
139	2013/06/25	10: 38: 49	0. 155	0. 157	0. 157
140	2013/06/25	10: 39: 49	0. 158	0. 161	0. 157
141	2013/06/25	10: 40: 49	0. 157	0. 161	0. 158
142	2013/06/25	10: 41: 49	0. 158	0. 160	0. 159
143	2013/06/25	10: 42: 49	0. 161	0. 167	0. 167
144	2013/06/25	10: 43: 49	0. 164	0. 172	0. 164
145	2013/06/25	10: 44: 49	0. 168	0. 183	0. 163
146	2013/06/25	10: 45: 49	0. 166	0. 171	0. 167
147	2013/06/25	10: 46: 49	0. 167	0. 171	0. 165
148	2013/06/25	10: 47: 49	0. 167	0. 170	0. 170

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149	2013/06/25	10: 48: 49	0. 173	0. 179	0. 170
150	2013/06/25	10: 49: 49	0. 166	0. 170	0. 166
151	2013/06/25	10: 50: 49	0. 162	0. 166	0. 163
152	2013/06/25	10: 51: 49	0. 164	0. 167	0. 165
153	2013/06/25	10: 52: 49	0. 165	0. 172	0. 156
154	2013/06/25	10: 53: 49	0. 156	0. 160	0. 157
155	2013/06/25	10: 54: 49	0. 157	0. 163	0. 162
156	2013/06/25	10: 55: 49	0. 161	0. 166	0. 159
157	2013/06/25	10: 56: 49	0. 162	0. 167	0. 166
158	2013/06/25	10: 57: 49	0. 163	0. 168	0. 167
159	2013/06/25	10: 58: 49	0. 167	0. 174	0. 171
160	2013/06/25	10: 59: 49	0. 172	0. 175	0. 173
161	2013/06/25	11: 00: 49	0. 175	0. 178	0. 176
162	2013/06/25	11: 01: 49	0. 176	0. 181	0. 177
163	2013/06/25	11: 02: 49	0. 185	0. 194	0. 187
164	2013/06/25	11: 03: 49	0. 188	0. 192	0. 190
165	2013/06/25	11: 04: 49	0. 190	0. 193	0. 192
166	2013/06/25	11: 05: 49	0. 190	0. 192	0. 191
167	2013/06/25	11: 06: 49	0. 191	0. 195	0. 194
168	2013/06/25	11: 07: 49	0. 200	0. 207	0. 202
169	2013/06/25	11: 08: 49	0. 199	0. 204	0. 202
170	2013/06/25	11: 09: 49	0. 205	0. 210	0. 208
171	2013/06/25	11: 10: 49	0. 206	0. 213	0. 210
172	2013/06/25	11: 11: 49	0. 213	0. 218	0. 213
173	2013/06/25	11: 12: 49	0. 214	0. 218	0. 218
174	2013/06/25	11: 13: 49	0. 217	0. 220	0. 217
175	2013/06/25	11: 14: 49	0. 219	0. 224	0. 224
176	2013/06/25	11: 15: 49	0. 225	0. 230	0. 226
177	2013/06/25	11: 16: 49	0. 237	0. 243	0. 242
178	2013/06/25	11: 17: 49	0. 242	0. 249	0. 245
179	2013/06/25	11: 18: 49	0. 244	0. 247	0. 242
180	2013/06/25	11: 19: 49	0. 243	0. 253	0. 246
181	2013/06/25	11: 20: 49	0. 244	0. 251	0. 241
182	2013/06/25	11: 21: 49	0. 247	0. 256	0. 243
183	2013/06/25	11: 22: 49	0. 248	0. 257	0. 249
184	2013/06/25	11: 23: 49	0. 251	0. 258	0. 254
185	2013/06/25	11: 24: 49	0. 253	0. 258	0. 250
186	2013/06/25	11: 25: 49	0. 257	0. 264	0. 258
187	2013/06/25	11: 26: 49	0. 256	0. 263	0. 262
188	2013/06/25	11: 27: 49	0. 261	0. 267	0. 261
189	2013/06/25	11: 28: 49	0. 260	0. 266	0. 260
190	2013/06/25	11: 29: 49	0. 260	0. 265	0. 263
191	2013/06/25	11: 30: 49	0. 267	0. 273	0. 267
192	2013/06/25	11: 31: 49	0. 266	0. 272	0. 269
193	2013/06/25	11: 32: 49	0. 272	0. 282	0. 277
194	2013/06/25	11: 33: 49	0. 279	0. 284	0. 280
195	2013/06/25	11: 34: 49	0. 281	0. 285	0. 280
196	2013/06/25	11: 35: 49	0. 281	0. 285	0. 283
197	2013/06/25	11: 36: 49	0. 288	0. 296	0. 291
198	2013/06/25	11: 37: 49	0. 293	0. 302	0. 295
199	2013/06/25	11: 38: 49	0. 289	0. 294	0. 290
200	2013/06/25	11: 39: 49	0. 286	0. 292	0. 288
201	2013/06/25	11: 40: 49	0. 289	0. 298	0. 293
202	2013/06/25	11: 41: 49	0. 293	0. 296	0. 292
203	2013/06/25	11: 42: 49	0. 294	0. 299	0. 298
204	2013/06/25	11: 43: 49	0. 300	0. 303	0. 303
205	2013/06/25	11: 44: 49	0. 301	0. 308	0. 305
206	2013/06/25	11: 45: 49	0. 303	0. 306	0. 305
207	2013/06/25	11: 46: 49	0. 303	0. 307	0. 305
208	2013/06/25	11: 47: 49	0. 304	0. 308	0. 302
209	2013/06/25	11: 48: 49	0. 300	0. 303	0. 301
210	2013/06/25	11: 49: 49	0. 300	0. 303	0. 300
211	2013/06/25	11: 50: 49	0. 297	0. 303	0. 300

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212	2013/06/25	11: 51: 49	0. 297	0. 301	0. 299
213	2013/06/25	11: 52: 49	0. 300	0. 308	0. 302
214	2013/06/25	11: 53: 49	0. 304	0. 317	0. 308
215	2013/06/25	11: 54: 49	0. 307	0. 314	0. 312
216	2013/06/25	11: 55: 49	0. 319	0. 327	0. 326
217	2013/06/25	11: 56: 49	0. 322	0. 331	0. 323
218	2013/06/25	11: 57: 49	0. 322	0. 328	0. 322
219	2013/06/25	11: 58: 49	0. 331	0. 340	0. 340
220	2013/06/25	11: 59: 49	0. 342	0. 350	0. 349
221	2013/06/25	12: 00: 49	0. 349	0. 360	0. 360
222	2013/06/25	12: 01: 49	0. 358	0. 369	0. 369
223	2013/06/25	12: 02: 49	0. 372	0. 377	0. 374
224	2013/06/25	12: 03: 49	0. 383	0. 390	0. 390
225	2013/06/25	12: 04: 49	0. 391	0. 397	0. 392
226	2013/06/25	12: 05: 49	0. 391	0. 397	0. 393
227	2013/06/25	12: 06: 49	0. 399	0. 407	0. 406
228	2013/06/25	12: 07: 49	0. 405	0. 410	0. 407
229	2013/06/25	12: 08: 49	0. 412	0. 418	0. 413
230	2013/06/25	12: 09: 49	0. 409	0. 416	0. 412
231	2013/06/25	12: 10: 49	0. 404	0. 411	0. 398
232	2013/06/25	12: 11: 49	0. 402	0. 414	0. 414
233	2013/06/25	12: 12: 49	0. 416	0. 425	0. 424
234	2013/06/25	12: 13: 49	0. 429	0. 435	0. 435
235	2013/06/25	12: 14: 49	0. 442	0. 448	0. 439
236	2013/06/25	12: 15: 49	0. 439	0. 445	0. 438
Peak		0. 442 0. 760	0. 439		
Min		0. 000 0. 000	0. 000		
Average		0. 161 0. 170	0. 162		

TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
001	2013/06/25 08: 20: 49	0. 000	---
002	2013/06/25 08: 21: 49	0. 000	---
003	2013/06/25 08: 22: 49	0. 000	---
004	2013/06/25 08: 23: 49	0. 001	---
005	2013/06/25 08: 24: 49	0. 001	---
006	2013/06/25 08: 25: 49	0. 001	---
007	2013/06/25 08: 26: 49	0. 001	---
008	2013/06/25 08: 27: 49	0. 001	---
009	2013/06/25 08: 28: 49	0. 002	---
010	2013/06/25 08: 29: 49	0. 002	---
011	2013/06/25 08: 30: 49	0. 002	---
012	2013/06/25 08: 31: 49	0. 002	---
013	2013/06/25 08: 32: 49	0. 002	---
014	2013/06/25 08: 33: 49	0. 002	---
015	2013/06/25 08: 34: 49	0. 002	0. 065
016	2013/06/25 08: 35: 49	0. 002	0. 067
017	2013/06/25 08: 36: 49	0. 002	0. 069
018	2013/06/25 08: 37: 49	0. 002	0. 056
019	2013/06/25 08: 38: 49	0. 002	0. 048
020	2013/06/25 08: 39: 49	0. 002	0. 043
021	2013/06/25 08: 40: 49	0. 002	0. 039
022	2013/06/25 08: 41: 49	0. 002	0. 036
023	2013/06/25 08: 42: 49	0. 002	0. 033
024	2013/06/25 08: 43: 49	0. 003	0. 031
025	2013/06/25 08: 44: 49	0. 003	0. 029
026	2013/06/25 08: 45: 49	0. 003	0. 028
027	2013/06/25 08: 46: 49	0. 003	0. 026
028	2013/06/25 08: 47: 49	0. 003	0. 025
029	2013/06/25 08: 48: 49	0. 003	0. 024
030	2013/06/25 08: 49: 49	0. 003	0. 023
031	2013/06/25 08: 50: 49	0. 003	0. 023

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032	2013/06/25 08: 51: 49	0. 003	0. 022
033	2013/06/25 08: 52: 49	0. 003	0. 022
034	2013/06/25 08: 53: 49	0. 003	0. 022
035	2013/06/25 08: 54: 49	0. 003	0. 021
036	2013/06/25 08: 55: 49	0. 003	0. 021
037	2013/06/25 08: 56: 49	0. 003	0. 021
038	2013/06/25 08: 57: 49	0. 003	0. 021
039	2013/06/25 08: 58: 49	0. 003	0. 020
040	2013/06/25 08: 59: 49	0. 003	0. 020
041	2013/06/25 09: 00: 49	0. 003	0. 020
042	2013/06/25 09: 01: 49	0. 003	0. 020
043	2013/06/25 09: 02: 49	0. 003	0. 020
044	2013/06/25 09: 03: 49	0. 003	0. 021
045	2013/06/25 09: 04: 49	0. 003	0. 021
046	2013/06/25 09: 05: 49	0. 003	0. 022
047	2013/06/25 09: 06: 49	0. 004	0. 023
048	2013/06/25 09: 07: 49	0. 004	0. 023
049	2013/06/25 09: 08: 49	0. 004	0. 025
050	2013/06/25 09: 09: 49	0. 004	0. 026
051	2013/06/25 09: 10: 49	0. 004	0. 028
052	2013/06/25 09: 11: 49	0. 004	0. 029
053	2013/06/25 09: 12: 49	0. 004	0. 031
054	2013/06/25 09: 13: 49	0. 004	0. 036
055	2013/06/25 09: 14: 49	0. 004	0. 041
056	2013/06/25 09: 15: 49	0. 005	0. 044
057	2013/06/25 09: 16: 49	0. 005	0. 048
058	2013/06/25 09: 17: 49	0. 005	0. 052
059	2013/06/25 09: 18: 49	0. 005	0. 055
060	2013/06/25 09: 19: 49	0. 005	0. 057
061	2013/06/25 09: 20: 49	0. 005	0. 059
062	2013/06/25 09: 21: 49	0. 005	0. 061
063	2013/06/25 09: 22: 49	0. 006	0. 064
064	2013/06/25 09: 23: 49	0. 006	0. 066
065	2013/06/25 09: 24: 49	0. 006	0. 068
066	2013/06/25 09: 25: 49	0. 006	0. 070
067	2013/06/25 09: 26: 49	0. 006	0. 071
068	2013/06/25 09: 27: 49	0. 006	0. 073
069	2013/06/25 09: 28: 49	0. 007	0. 072
070	2013/06/25 09: 29: 49	0. 007	0. 070
071	2013/06/25 09: 30: 49	0. 007	0. 072
072	2013/06/25 09: 31: 49	0. 007	0. 073
073	2013/06/25 09: 32: 49	0. 007	0. 074
074	2013/06/25 09: 33: 49	0. 007	0. 075
075	2013/06/25 09: 34: 49	0. 008	0. 077
076	2013/06/25 09: 35: 49	0. 008	0. 080
077	2013/06/25 09: 36: 49	0. 008	0. 082
078	2013/06/25 09: 37: 49	0. 008	0. 084
079	2013/06/25 09: 38: 49	0. 008	0. 086
080	2013/06/25 09: 39: 49	0. 009	0. 088
081	2013/06/25 09: 40: 49	0. 009	0. 092
082	2013/06/25 09: 41: 49	0. 009	0. 094
083	2013/06/25 09: 42: 49	0. 009	0. 097
084	2013/06/25 09: 43: 49	0. 010	0. 098
085	2013/06/25 09: 44: 49	0. 010	0. 100
086	2013/06/25 09: 45: 49	0. 010	0. 102
087	2013/06/25 09: 46: 49	0. 010	0. 104
088	2013/06/25 09: 47: 49	0. 010	0. 104
089	2013/06/25 09: 48: 49	0. 011	0. 107
090	2013/06/25 09: 49: 49	0. 011	0. 108
091	2013/06/25 09: 50: 49	0. 011	0. 110
092	2013/06/25 09: 51: 49	0. 012	0. 112
093	2013/06/25 09: 52: 49	0. 012	0. 115
094	2013/06/25 09: 53: 49	0. 012	0. 118

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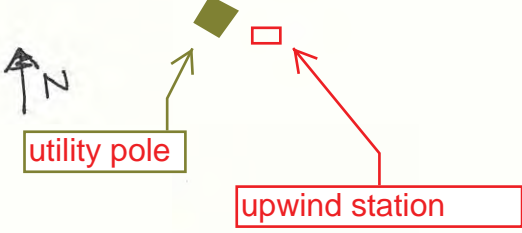
095	2013/06/25	09: 54: 49	0. 012	0. 121
096	2013/06/25	09: 55: 49	0. 013	0. 123
097	2013/06/25	09: 56: 49	0. 013	0. 126
098	2013/06/25	09: 57: 49	0. 013	0. 129
099	2013/06/25	09: 58: 49	0. 014	0. 132
100	2013/06/25	09: 59: 49	0. 014	0. 136
101	2013/06/25	10: 00: 49	0. 014	0. 139
102	2013/06/25	10: 01: 49	0. 015	0. 142
103	2013/06/25	10: 02: 49	0. 015	0. 146
104	2013/06/25	10: 03: 49	0. 015	0. 148
105	2013/06/25	10: 04: 49	0. 016	0. 150
106	2013/06/25	10: 05: 49	0. 016	0. 152
107	2013/06/25	10: 06: 49	0. 016	0. 152
108	2013/06/25	10: 07: 49	0. 017	0. 153
109	2013/06/25	10: 08: 49	0. 017	0. 152
110	2013/06/25	10: 09: 49	0. 017	0. 151
111	2013/06/25	10: 10: 49	0. 017	0. 151
112	2013/06/25	10: 11: 49	0. 018	0. 150
113	2013/06/25	10: 12: 49	0. 018	0. 150
114	2013/06/25	10: 13: 49	0. 018	0. 149
115	2013/06/25	10: 14: 49	0. 019	0. 148
116	2013/06/25	10: 15: 49	0. 019	0. 147
117	2013/06/25	10: 16: 49	0. 019	0. 147
118	2013/06/25	10: 17: 49	0. 020	0. 146
119	2013/06/25	10: 18: 49	0. 020	0. 145
120	2013/06/25	10: 19: 49	0. 020	0. 145
121	2013/06/25	10: 20: 49	0. 021	0. 144
122	2013/06/25	10: 21: 49	0. 021	0. 144
123	2013/06/25	10: 22: 49	0. 021	0. 144
124	2013/06/25	10: 23: 49	0. 021	0. 145
125	2013/06/25	10: 24: 49	0. 022	0. 144
126	2013/06/25	10: 25: 49	0. 022	0. 144
127	2013/06/25	10: 26: 49	0. 022	0. 144
128	2013/06/25	10: 27: 49	0. 023	0. 144
129	2013/06/25	10: 28: 49	0. 023	0. 143
130	2013/06/25	10: 29: 49	0. 023	0. 143
131	2013/06/25	10: 30: 49	0. 023	0. 142
132	2013/06/25	10: 31: 49	0. 024	0. 142
133	2013/06/25	10: 32: 49	0. 024	0. 142
134	2013/06/25	10: 33: 49	0. 024	0. 142
135	2013/06/25	10: 34: 49	0. 025	0. 143
136	2013/06/25	10: 35: 49	0. 025	0. 144
137	2013/06/25	10: 36: 49	0. 025	0. 144
138	2013/06/25	10: 37: 49	0. 026	0. 145
139	2013/06/25	10: 38: 49	0. 026	0. 146
140	2013/06/25	10: 39: 49	0. 026	0. 148
141	2013/06/25	10: 40: 49	0. 027	0. 149
142	2013/06/25	10: 41: 49	0. 027	0. 150
143	2013/06/25	10: 42: 49	0. 027	0. 152
144	2013/06/25	10: 43: 49	0. 028	0. 154
145	2013/06/25	10: 44: 49	0. 028	0. 155
146	2013/06/25	10: 45: 49	0. 028	0. 157
147	2013/06/25	10: 46: 49	0. 029	0. 158
148	2013/06/25	10: 47: 49	0. 029	0. 160
149	2013/06/25	10: 48: 49	0. 029	0. 161
150	2013/06/25	10: 49: 49	0. 030	0. 162
151	2013/06/25	10: 50: 49	0. 030	0. 163
152	2013/06/25	10: 51: 49	0. 030	0. 163
153	2013/06/25	10: 52: 49	0. 031	0. 163
154	2013/06/25	10: 53: 49	0. 031	0. 163
155	2013/06/25	10: 54: 49	0. 031	0. 163
156	2013/06/25	10: 55: 49	0. 032	0. 164
157	2013/06/25	10: 56: 49	0. 032	0. 164

Downwind PID_062513.txt

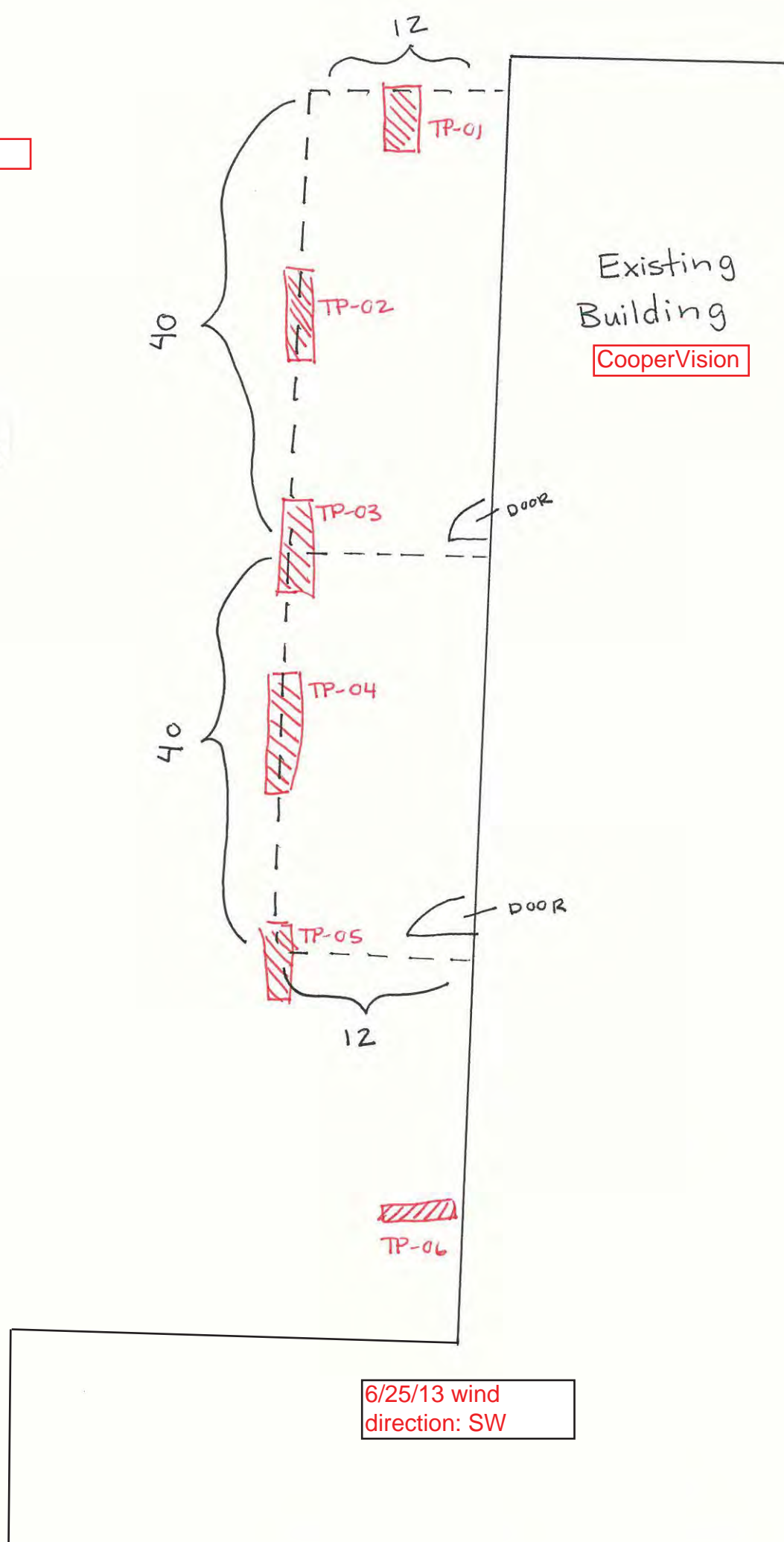
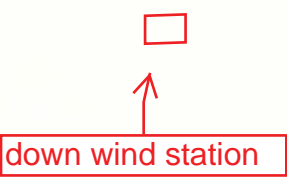
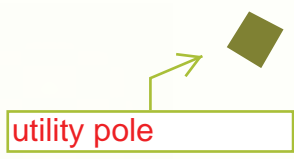
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159	2013/06/25	10: 58: 49	0. 033	0. 164
160	2013/06/25	10: 59: 49	0. 033	0. 165
161	2013/06/25	11: 00: 49	0. 034	0. 166
162	2013/06/25	11: 01: 49	0. 034	0. 167
163	2013/06/25	11: 02: 49	0. 034	0. 168
164	2013/06/25	11: 03: 49	0. 035	0. 169
165	2013/06/25	11: 04: 49	0. 035	0. 171
166	2013/06/25	11: 05: 49	0. 035	0. 173
167	2013/06/25	11: 06: 49	0. 036	0. 175
168	2013/06/25	11: 07: 49	0. 036	0. 178
169	2013/06/25	11: 08: 49	0. 037	0. 181
170	2013/06/25	11: 09: 49	0. 037	0. 184
171	2013/06/25	11: 10: 49	0. 038	0. 187
172	2013/06/25	11: 11: 49	0. 038	0. 190
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174	2013/06/25	11: 13: 49	0. 039	0. 197
175	2013/06/25	11: 14: 49	0. 039	0. 200
176	2013/06/25	11: 15: 49	0. 040	0. 203
177	2013/06/25	11: 16: 49	0. 040	0. 208
178	2013/06/25	11: 17: 49	0. 041	0. 212
179	2013/06/25	11: 18: 49	0. 041	0. 215
180	2013/06/25	11: 19: 49	0. 042	0. 219
181	2013/06/25	11: 20: 49	0. 042	0. 222
182	2013/06/25	11: 21: 49	0. 043	0. 225
183	2013/06/25	11: 22: 49	0. 043	0. 228
184	2013/06/25	11: 23: 49	0. 044	0. 232
185	2013/06/25	11: 24: 49	0. 044	0. 235
186	2013/06/25	11: 25: 49	0. 045	0. 238
187	2013/06/25	11: 26: 49	0. 046	0. 241
188	2013/06/25	11: 27: 49	0. 046	0. 244
189	2013/06/25	11: 28: 49	0. 047	0. 247
190	2013/06/25	11: 29: 49	0. 047	0. 249
191	2013/06/25	11: 30: 49	0. 048	0. 252
192	2013/06/25	11: 31: 49	0. 048	0. 254
193	2013/06/25	11: 32: 49	0. 049	0. 256
194	2013/06/25	11: 33: 49	0. 049	0. 259
195	2013/06/25	11: 34: 49	0. 050	0. 261
196	2013/06/25	11: 35: 49	0. 051	0. 264
197	2013/06/25	11: 36: 49	0. 051	0. 267
198	2013/06/25	11: 37: 49	0. 052	0. 270
199	2013/06/25	11: 38: 49	0. 052	0. 272
200	2013/06/25	11: 39: 49	0. 053	0. 275
201	2013/06/25	11: 40: 49	0. 054	0. 277
202	2013/06/25	11: 41: 49	0. 054	0. 279
203	2013/06/25	11: 42: 49	0. 055	0. 282
204	2013/06/25	11: 43: 49	0. 056	0. 285
205	2013/06/25	11: 44: 49	0. 056	0. 287
206	2013/06/25	11: 45: 49	0. 057	0. 290
207	2013/06/25	11: 46: 49	0. 057	0. 292
208	2013/06/25	11: 47: 49	0. 058	0. 294
209	2013/06/25	11: 48: 49	0. 059	0. 295
210	2013/06/25	11: 49: 49	0. 059	0. 297
211	2013/06/25	11: 50: 49	0. 060	0. 298
212	2013/06/25	11: 51: 49	0. 061	0. 298
213	2013/06/25	11: 52: 49	0. 061	0. 299
214	2013/06/25	11: 53: 49	0. 062	0. 300
215	2013/06/25	11: 54: 49	0. 063	0. 302
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217	2013/06/25	11: 56: 49	0. 064	0. 306
218	2013/06/25	11: 57: 49	0. 065	0. 308
219	2013/06/25	11: 58: 49	0. 065	0. 310
220	2013/06/25	11: 59: 49	0. 066	0. 313

Downwind PID_062513.txt

221	2013/06/25	12: 00: 49	0. 067	0. 317
222	2013/06/25	12: 01: 49	0. 067	0. 321
223	2013/06/25	12: 02: 49	0. 068	0. 326
224	2013/06/25	12: 03: 49	0. 069	0. 332
225	2013/06/25	12: 04: 49	0. 070	0. 338
226	2013/06/25	12: 05: 49	0. 071	0. 344
227	2013/06/25	12: 06: 49	0. 072	0. 351
228	2013/06/25	12: 07: 49	0. 072	0. 358
229	2013/06/25	12: 08: 49	0. 073	0. 365
230	2013/06/25	12: 09: 49	0. 074	0. 372
231	2013/06/25	12: 10: 49	0. 075	0. 377
232	2013/06/25	12: 11: 49	0. 076	0. 383
233	2013/06/25	12: 12: 49	0. 077	0. 389
234	2013/06/25	12: 13: 49	0. 078	0. 396
235	2013/06/25	12: 14: 49	0. 079	0. 402
236	2013/06/25	12: 15: 49	0. 079	0. 407



MW-201



ENVIRONMENTAL TEST PIT LOG

Test Pit No.
TP-01
Page 1 of 1

PROJECT <u>Comervision</u>	H&A FILE NO. <u>70665-018</u>
LOCATION <u>711 North Rd Scottsville, NY</u>	PROJECT MGR. <u>M. Ramsdell</u>
CLIENT <u>Coopervision</u>	FIELD REP <u>S. McKenna</u>
CONTRACTOR <u>Nethnagle Drilling</u>	DATE <u>6/25/13</u>
EQUIPMENT _____	WEATHER <u>hot humid, 90s</u>

Ground El. _____ ft Location Most North location Groundwater depths/entry rates (in/min): _____
El. Datum _____

Depth (ft)	Field Screening Results (ppm)	Sample ID	Stratum Change Depth (ft)	Description of Materials	PID	Groundwater depths/entry rates (in/min):
	0.0			Light brown lean CLAY and gravel, no edging dir. Subrounded cobbles present, no visible staining	0.0	Visible contamination of soil/water: <u>None</u>
2	↓				0.0	Odors: <u>None</u>
4	↓				0.0	Obstructions: <u>None</u>
		X		↓	0.0	
				Bottom of Test Pit at 5.0 ft		Bucket decontamination method: _____
						Remarks: Sample for composite collected at 5.0' bgs PID: 0.0 @ 0845

Standing water in completed pit	Screening device(s): <u>PID</u>	Test Pit
at depth _____ ft	Background reading (ppm) <u>0.0</u>	Pit Depth <u>5</u> ft
measured after _____ hrs elapsed		Pit Length X Width <u>5 x 2</u> ft

ENVIRONMENTAL TEST PIT LOG

Test Pit No.

TP-02

Page 1 of 1

PROJECT Cooper Vision
 LOCATION 711 North Rd Scottsville, NY
 CLIENT Cooper Vision
 CONTRACTOR Nathnagle
 EQUIPMENT _____

H&A FILE NO. 7010105-018
 PROJECT MGR. M. Ramedell
 FIELD REP S. McKenna
 DATE 6/25/13
 WEATHER hot humid 90s

Ground El. _____ ft Location _____
 El. Datum _____ Groundwater depths/entry rates (in/min): _____

Depth (ft)	Field Screening Results (ppm)	Sample ID	Stratum Change Depth (ft)	Description of Materials	PID	Groundwater depths/entry rates (in/min):	
	0.0			Light brown lean CLAY and gravel no odor dry subrounded cobbles present no visible staining	0.0	Visible contamination of soil/water: NONE	
2	↓	X			0.0	Odors: NONE	
4					0.0	Obstructions: NONE	
						0.0	Bucket decontamination method: -
						0.0	Remarks: TP-02 sample for composite taken at 5.0' bgs @ 0920
				Bottom of test pit at 5.0			

Standing water in completed pit at depth _____ ft measured after _____ hrs elapsed	Screening device(s): <u>DID</u> Background reading (ppm) <u>0.0</u>	Test Pit Pit Depth <u>5</u> ft Pit Length X Width <u>5x2</u> ft
--	--	---

ENVIRONMENTAL TEST PIT LOG

Test Pit No.
TP-03
Page 1 of 1

PROJECT	CooperVision	H&A FILE NO.	70665-018
LOCATION	711 North Rd Scottsville, NY	PROJECT MGR.	M. Ramsdell
CLIENT	CooperVision	FIELD REP	S. McKenna
CONTRACTOR	Nothnagle	DATE	11/25/13
EQUIPMENT	Mini excavator	WEATHER	hot, 90s

Ground El. _____ ft Location _____
El. Datum _____

Depth (ft)	Field Screening Results (ppm)	Sample ID	Stratum Change Depth (ft)	Description of Materials	PID	Groundwater depths/entry rates (in/min):
	0.0			light brown lean CLAY and gravel, no odor, dry. Cobble present, no visible staining	0.0	Visible contamination of soil/water:
2	↓	X			0.0	NONE
4					0.0	Odors:
					0.0	NONE
					0.0	Obstructions:
				0.0	Bottom of Test Pit at 5.0' bgs	Bucket decontamination method:
						Remarks: TP-03 collected at 5.0' bgs at 1000

Standing water in completed pit at depth _____ ft measured after _____ hrs elapsed	Screening device(s): <u>PID</u>	Test Pit Pit Depth <u>5</u> Pit Length X Width <u>5x2</u>
	Background reading (ppm) <u>0.0</u>	

ENVIRONMENTAL TEST PIT LOG

Test Pit No.
TP-04

Page 1 of 1

PROJECT: CooperVision
 LOCATION: 711 North Rd, Scottsville NY
 CLIENT: CooperVision
 CONTRACTOR: Nehtnagle
 EQUIPMENT: Mini Excavator
 H&A FILE NO.: 70605-018
 PROJECT MGR.: M. Ramsdell
 FIELD REP: S. McKenna
 DATE: 6/25/13
 WEATHER: hot, 90s

Ground El. _____ ft Location _____
 El. Datum _____ Groundwater depths/entry rates (in/min): _____

Depth (ft)	Field Screening Results (ppm)	Sample ID	Stratum Change Depth (ft)	Description of Materials	PID	Groundwater depths/entry rates (in/min):
0	0.0			light brown lean CLAY and gravel, no odor, no cobbles present, no visible staining	0.0	Visible contamination of soil/water: NONE
2					0.0	Odors: NONE
4					0.0	Obstructions: NONE
		X		Bottom of Test Pit at 5.0' bgs	0.0	Bucket decontamination method: _____
						Remarks: TP-04 collected at 5.0' bgs @ 0940

Standing water in completed pit at depth _____ ft measured after _____ hrs elapsed
 Screening device(s): PIP
 Background reading (ppm): 0.0
 Test Pit Pit Depth _____ Pit Length X Width _____

ENVIRONMENTAL TEST PIT LOG

Test Pit No.

TP-05

Page 1 of 1

PROJECT Cooper Vision
 LOCATION 711 North Rd Scottsville, NY
 CLIENT Cooper Vision
 CONTRACTOR Nathnagle
 EQUIPMENT _____

H&A FILE NO. 701015-018
 PROJECT MGR. M. Ramsdell
 FIELD REP S. McKenna
 DATE 6/25/13
 WEATHER _____

Ground El. _____ ft Location _____
 El. Datum _____ Groundwater depths/entry rates (in/min): _____

Depth (ft)	Field Screening Results (ppm)	Sample ID	Stratum Change Depth (ft)	Description of Materials	PID	Remarks		
0.0		X		light brown lean CLAY and gravel, no odor, dry. Cobbles present, no visible staining	0.0	Visible contamination of soil/water: NONE		
2						0.0	Odors: NONE	
4							0.0	Obstructions: ---
						Bottom of test pit at 5.0' bgs	0.0	
								Bucket decontamination method: ---
						Remarks: TP-05 sample collected at 5.0' bgs @ 1035		

Standing water in completed pit at depth _____ ft
 measured after _____ hrs elapsed
 Screening device(s): PID
 Background reading (ppm) 0.0
 Test Pit Pit Depth 5 ft
 Pit Length X Width 5 x 2 ft

ENVIRONMENTAL TEST PIT LOG

Test Pit No.

TP-06

Page 1 of 1

PROJECT Cooper Vision
 LOCATION 711 North Rd Scottsville, NY
 CLIENT Cooper Vision
 CONTRACTOR Nathnagle
 EQUIPMENT Mini Excavator

H&A FILE NO. 70665-018
 PROJECT MGR. M. Ramsdell
 FIELD REP S. McKenna
 DATE 6/25/13
 WEATHER _____

Ground El. _____ ft Location _____
 El. Datum _____ Groundwater depths/entry rates (in/min): _____

Depth (ft)	Field Screening Results (ppm)	Sample ID	Stratum Change Depth (ft)	Description of Materials	PID	Groundwater depths/entry rates (in/min):
2 ↓ 4	0.C			light brown lean CLAY and gravel, no odor, dry. cobblestones present	0.C	Visible contamination of soil/water: NONE
					0.C	
					0.C	
					0.C	
						Odors: NONE
						Obstructions: _____
				Bottom of Test Pit at 5.0' bgs		Bucket decontamination method: _____
						Remarks: Sample from TP-06 collected at 5' bgs @ 1115

Standing water in completed pit at depth _____ ft measured after _____ hrs elapsed
 Screening device(s): PID
 Background reading (ppm) 0.0
 Test Pit Pit Depth 5 ft
 Pit Length X Width 3 X 2 ft

New York State Department of Environmental Conservation

Division of Environmental Remediation, Region 8

6274 East Avon-Lima Road, Avon, New York 14414-9519

Phone: (585) 226-5353 • Fax: (585) 226-8139

Website: www.dec.ny.gov



Joe Martens
Commissioner

September 6, 2013

Christopher H. Marraro, Esq.
BakerHostetler
Washington Square
1050 Connecticut Avenue, N.W., Suite 1100
Washington, DC 20036-5304

**Re: CooperVision, Inc
Site Management Plan Modifications for New Building Addition
Voluntary Cleanup Program, Site No. V00175
Village of Scottsville, Monroe County**

Dear Mr. Marraro;

On June 6, 2013, Haley & Aldrich of New York (H&A) notified the New York State Department of Environmental Conservation (NYDEC) via email of CooperVision's plans to construct a 12x40 ft. addition to the northwest corner of the building (the Project). A figure showing the location of the proposed building addition is attached. Per the notification, the Project would include the excavation of approximately 100 cubic yards of soil, the depth of the excavation would be about 5 ft., and the excavation would be backfilled with approximately 80 cubic yards of imported crusher run gravel. The notification also indicated that test pits would be completed in the excavation area to pre-screen and sample soils within the footprint of the foundation for the new building.

In accordance with the Site Management Plan (SMP), the notification requested Project-specific modifications to the excavation plan included in the SMP. NYSDEC responded via email on June 20, 2013, and requested to review the test pit information before responding to the modification requests. H&A provided the test pit information via email on August 21, 2013. A table summarizing the test pit soil sample results is attached.

Based on the information and representations provided by H&A, the following Project-specific modifications to the SMP are approved:

1. The Community Air Monitoring Program discussed in Sections 2.5 and 2.5.14 of the SMP is not required as long as a) controls are in place to manage dust and there is no visible dust leaving the work area, and b) soil stockpiles are managed in accordance with Section 2.5.3 of the SMP.
2. The soil screening elements in Section 2.5.2 of the SMP are not required.
3. The soil vapor intrusion investigation discussed in Section 2.3.1 of the SMP is not necessary for the Project since no volatile organic compounds (VOCs) were identified in the test pit data and the area is not known to be contaminated with VOCs.
4. Section 2.5.11 of the SMP concerning backfill from off-site sources is modified to be consistent with DER-10 Section 5.4(e)5,6 and 7. Per Section 5.4(e)5, imported backfill is exempt from analytical testing if: a) the material is gravel, rock or stone, consisting of virgin material from a permitted mine or quarry; and b) it contains less than 10% by weight material which would pass through a size 80 sieve. Per Section

5.4(e)6&7, documentation of the source of the backfill material will be provided to NYSDEC for approval **before** it is used on the site and bills of lading will be provided to NYSDEC (in the Periodic Review Report) to document that the fill delivered was from the approved source.

In addition:

1. Based on the test pit soil analytical results, the excavated soils do not meet the criteria established in Section 2.5.6 of the SMP for reuse on-site. Therefore, the excavated soils will be removed from the site and managed in accordance with Section 2.5.7 of the SMP.
2. Excavation activities must be completed in compliance with all applicable local, State, and Federal laws and regulations.

The next step is for H&A to provide me with the backfill source information and associated analytical data and/or the documentation that the backfill meets the exemption criteria.

Please contact me at 585-226-5357 if you have any questions regarding these modifications or if any issues develop that need NYSDEC input during the course of the excavation.

Sincerely,



Frank Sowers, P.E.
Environmental Engineer 2

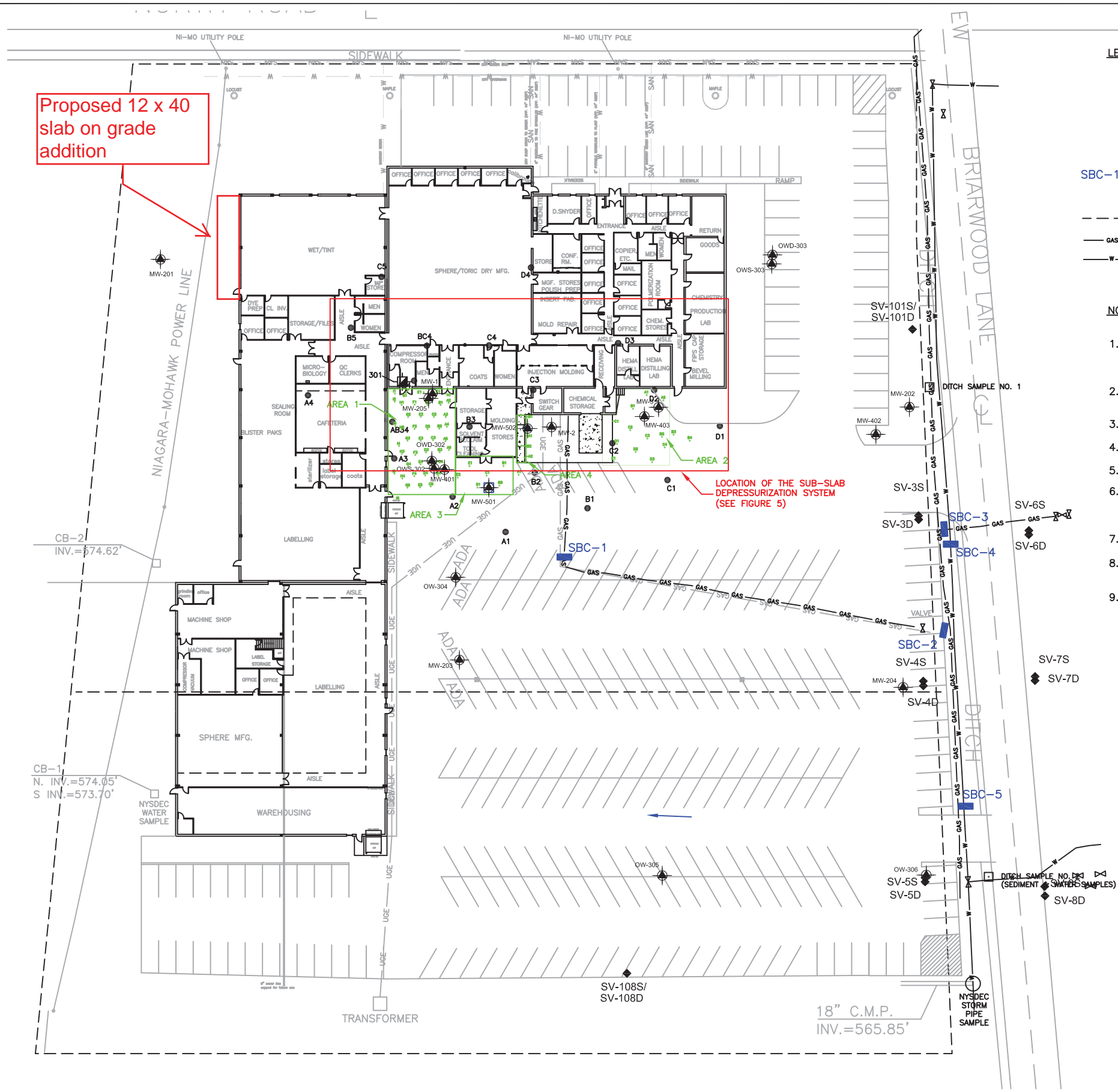
Attach:

cc: w/attach:

B. Putzig
J. Mahoney
J. Frazer
J. Kenney
V. Dick
M. Ramsdell
C. Rogers
B. Hallatt

G:\PROJECTS\70665\018 - ONGOING SUPPORT\CAD\2012-02\14_70665-018_SITE PLAN.DWG

Proposed 12 x 40 slab on grade addition

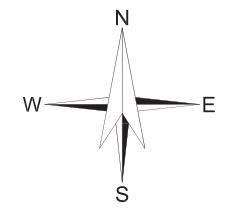


LEGEND:

- MONITORING/OBSERVATION WELL
- HRC INJECTION POINT LOCATION
- LOCATION OF SOIL VAPOR POINTS
- SBC-1 SOIL-BENTONITE-CEMENT COLLAR
- VALVE
- PROPERTY BOUNDARY
- LOCATION OF KNOWN NATURAL GAS PIPELINE UTILITIES
- LOCATION OF KNOWN WATER UTILITIES

NOTES:

1. PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 12/17/96.
2. FACILITY INTERIOR USES ACCURATE AS TO DATE OF SURVEY, BUT MAY CHANGE OVER TIME.
3. SEE REPORT TEXT FOR FURTHER INFORMATION.
4. EXPLORATION LOCATIONS ARE APPROXIMATE.
5. HRC INSTALLED JULY-AUGUST 2001.
6. REFER TO APPENDIX D OF THE FINAL ENGINEERING REPORT FOR A FIGURE SHOWING THE LOCATIONS OF OFFSITE SAMPLE VAPOR POINTS.
7. ALL LOCATIONS ARE APPROXIMATE AND NOT TO SCALE
8. GAS PIPELINE LOCATIONS BASED ON RECORDS PROVIDED BY RG&E AND ATLANTIC SURVEYING & MAPPING.
9. PROPERTY BOUNDARIES BASED ON RECORDS FROM MONROE COUNTY AND ATLANTIC SURVEYING & MAPPING.



HALEY & ALDRICH COOPERVISION FACILITY
711 NORTH ROAD
SCOTTSDALE, NEW YORK

Proposed Addition

SCALE: AS SHOWN
FEBRUARY 2012

FIGURE 2

BUILDING PERMIT

Town of Wheatland / Village of Scottsville
hereby issues permit for project as described herein:

Permit No.

BPV 13-33

Permit Valid Until:

9/17/2014

Issued Date: **9/17/2013**

Location of Property: **711 North Rd**

Type of Permit: **Commercial Addition**

Tax Parcel ID: **187.17-1-18**

Fee: **\$100.00**

Owner: **Coopervision Inc,**

Applicant: **Owner**

Description Of Work

Construct Ceco 521 sf. metal building addition to house HVAC and electric for new lines in Caledonia room

I am familiar with the Zoning/Building Ordinance(s) and the New York State Uniform Fire Prevention and Building Code requirements related to this permit and do hereby agree to abide by them. The information stated above is correct and accurate.

A permit, under which no work has commenced within six (6) months after issuance, shall expire by limitation. Furthermore, a permit that no Certificate of Occupancy or Certificate of Compliance has been issued within eighteen (18) months after issuance shall expire by limitation. Under either circumstance a new building permit shall be secured before work can begin or be completed.

It is the responsibility of the Owner/Occupant and/or Contractor to comply with all applicable ordinances. Notification requests for inspection must be made at least 24 hours in advance to the number shown below. Voice mail requests for inspection will not be scheduled. **YOU MUST HAVE YOUR BUILDING PERMIT NUMBER AVAILABLE** when calling for any inspections or inquiries.

Comments:

Also includes chiller pad and storage tank approved site plan 9-12-2013

You must call (585) 889-1553 ext. 3 from 9 AM - 4 PM for the following inspections: All inspections must be scheduled and verified with Building Dept. personnel at least 24 hours prior to the requested inspection day

- | | | |
|---------------------------|----------------------|--|
| 1. Footers - | 2. concrete re-bar - | 3. Concrete special ins - Outside Contr |
| 4. Back Fill - | 5. Rough Framing - | 6. Steel special inspec - Outside Contra |
| 7. Air Sealing/Envelope - | 8. Insulation - | 9. Electrical - Outside Contractor |
| 10. Sprinkler - | 11. HVAC - | 12. Final - |

PAID

SEP 17 2013

Tax Amt.
Town of Wheatland


Terry Rech, CEO

INSPECTION

Location:
Contact Person:
Phone #

INSPECTION RECORD

Inspections: (24 Hours Notice Required)

1. Footer (before pouring) *9.23.13 TWR*
2. Wall (before backfilling) *9.27.13 TWR*
3. Rough Framing *w/ bolting SE 10.24.13 TWR*
4. Rough Plumbing
5. Electric
 - a. Commonwealth Electrical Inspection Agency (585) 367-2779
 - b. Middle Department Inspection Agency (585) 454-5191
 - c. New York Electrical Inspection Agency (585) 230-4186
6. Heating
7. Air sealing
8. Insulation
9. Final Plumbing
10. Final Inspection
11. Miscellaneous

Comments:

This signature constitutes a Certificate of Compliance

Signature

Date

BUILDING PERMIT

Town of Wheatland / Village of Scottsville
hereby issues permit for project as described herein:

Permit No.

BPV 13-26

Permit Valid Until:

8/6/2014

Issued Date: **8/6/2013**

Location of Property: **711 North Rd**

Type of Permit **Commercial Alteration Lvl2**

Tax Parcel ID: **187.17-1-18.1/EX**

Fee: **\$100.00**

Owner: **Coopervision Inc,**

Applicant:

Description Of Work

Caledonia Room: All Lvl 1- replace x-ter wall insul and finishes, Alt Lvl 2-remove windows,reconfigure space, reconfigure exit
I am familiar with the Zoning/Building Ordinance(s) and the New York State Uniform Fire Prevention and Building Code requirements related to this permit and do hereby agree to abide by them. The information stated above is correct and accurate.

A permit, under which no work has commenced within six (6) months after issuance, shall expire by limitation. Furthermore, a permit that no Certificate of Occupancy or Certificate of Compliance has been issued within eighteen (18) months after issuance shall expire by limitation. Under either circumstance a new building permit shall be secured before work can begin or be completed.

It is the responsibility of the Owner/Occupant and/or Contractor to comply with all applicable ordinances. Notification requests for inspection must be made at least 24 hours in advance to the number shown below. Voice mail requests for inspection will not be scheduled. **YOU MUST HAVE YOUR BUILDING PERMIT NUMBER AVAILABLE** when calling for any inspections or inquiries.

Comments:


3801 sf of approx. 58k building

You must call (585) 889-1553 ext. 3 from 9 AM - 4 PM for the following inspections: All inspections must be scheduled and verified with Building Dept. personnel at least 24 hours prior to the requested inspection day

1. Rough Framing -
4. Electrical - Outside Contractor
7. HVAC -

2. Insulation -
5. Separation/Fire Stop -
8. Above Ceiling - *8/14/13*

3. Air Sealing/Envelope - *8/14/13*
6. Sprinkler -
9. Final - *8/14/13*


Terry Rech, CEO

**Town of Wheatland/Village of Scottsville
Building Inspection Report**

Lot # _____ House # 711 Street North

Date 8.9.13

Inspection of: Frame above exist @ auto above
ground batt - some framing

(585) 889-1553 ext. 3



EXHIBIT A

SITE: **Mill Seat Landfill**

PROFILE **111627NY**

Billing Customer Information		Job Site Contact Information		Service Location (Generator)	
Wolcott Contracting & Consulting 700 Five Points Road		Wolcott Contracting & Consulting 700 Five Points Road		Coopersvion 711 North Road	
Rush	NY 14543	Rush	NY 14543	Scottville	NY 14546
Chuck Wolcott Phone (585) 370-4894 Fax (585) 533-2449 cwchuck@rochester.rr.com		Chuck Wolcott Phone (585) 370-4894 Fax (585) 533-2449 cwchuck@rochester.rr.com		Chuck Wolcott Phone (585) 370-4894 Fax (585) 370-4894 cwchuck@rochester.rr.com	
PO Required	NO	PO Number			
Sales Contacts					
WM Contact:	Thom Conde	WM Customer Service Phone:	(716) 286-0544	WM Contact Fax:	(716) 286-0211
WM Sales Rep:	Sue Rossi	Sales Rep ID	242		

SERVICE INFORMATION					
Material / Volume:	Contaminated Soil		150 Ton	Cover	Non Haz
Non Friable Asbestos	\$23.00 per Ton with	5	Ton Minimum Per Load		
Disposal Surcharge	Varies Weekly		Current rate at time of quote is		9.08%
Environmental Fee	10.00%		Applied to Invoice Total		
Account Setup Fee	Quote	RCR Fee:	2.1	%	
Service Agreement Expiration	08/29/14				
PROFILE EXPIRATION DATE	Pricing is subject to an annual CPI				

Additional information: Waste will be disposed of at **Mill Seat Landfill**
TECHNICAL SERVICE CENTER 800-843-3804
 All profiled wastes must be called into the receiving facility's Scalehouse 24 hours prior to shipping.
 All loads must have 4 part bill of lading or manifest with approved profile number clearly marked on the paperwork.
 Chaffee Scalehouse 492-3420 ?

THE WORK CONTEMPLATED BY THIS EXHIBIT A IS TO BE DONE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE INDUSTRIAL WASTE & DISPOSAL SERVICES AGREEMENT BETWEEN THE PARTIES DATED: **8/29/2006**

COMPANY: Waste Management of NY, LLC

COMPANY: Wolcott Contracting & Consulting

By: _____
 Name: Thom Conde
 Title: Technical Service Representative

9/20/13
 Date

By: *Chuck Wolcott*
 Name: Chuck Wolcott
 Title: Project Manager

9/20/13
 Date



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 753513

Customer Name WOLCOTT CONTRACTING-111627NY W Carrier RIC RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 15 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route 67500 Billing # 0001581
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest *
 Destination Grid 19
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	61840 lb
In	09/27/2013 09:19:03	Scale1	KKING5		Tare	28660 lb
Out	09/27/2013 09:40:49	Scale2	KKING5		Net	33100 lb
					Tons	16.59

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	16.59	Tons				MON
2 FUEL-Fuel Surcharg	100		%				MON
3 EVF-P-Standard Env	100		%				MON
4 RCR-P-Regulatory C	100		%				MON

Total Tax
 Total Ticket

(Handwritten signature/initials in a circle)

Driver's Signature _____



This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

at COMMUNIST, SCOTSDALE NY from WATERLOO, ONTARIO

the property described herein, in approved good order, except as noted (contents and condition of contents of packages unknown) received, consigned and destined as shown below, which said company (the said company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his consignee.

(Mail or street address of consignee - For purposes of notification only.)

Consigned to RICELL Trucking

Destination 303 PLYMOUTH PROCELA AKT State of NY Zip Code _____ County of NY

Routing 386 to 33A Delivering Carrier _____ Vehicle or Car Initial _____ No. 15

Collect On Delivery \$ _____ and remit to: _____ C. O. D. charge to be paid by Shipper Consignee

Street _____ City _____ State _____

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Car.)	Class or Rate	Check Column
	<u>COMMUNIST SALES</u> <u>PROFILE # 111027 NY</u>		<u>Driver</u>	
	<u>KIM BURG MILL, SCOTSDALE NY</u>			

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor) _____

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received \$ _____ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____ (the signature here acknowledges only the amount Prepaid.)

Charges Advanced: \$ _____

*If the shipment moves between two ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight." NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per CWE

Shipper, Per DAVE JONES Agent, Per _____

Permanent post-office address of shipper, _____

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

3



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 753629

Customer Name WOLCOTT CONTRACTING-111627NY W Carrier RIC RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 15 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver NOV 12 2012
 Hauling Ticket# Check#
 Route 67500 Billing # 0001501
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest *
 Destination Grid 19
 PO
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	60940 lb
In	09/27/2013 14:14:13	Scale1	KKINGS		Tare	28660 lb
Out	09/27/2013 14:14:15		KKINGS		Net	40200 lb
					Tons	20.14

Comments This vehicle was over the legal weight limit.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	20.14	Tons				MON
2 FUEL-Fuel Surcharg	100		%				MON
3 EVF-P-Standard Env	100		%				MON
4 RCR-P-Regulatory C	100		%				MON

Total Tax
 Total Ticket

Driver's Signature _____



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Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading,

at Cooper Union, Scottville NY from Wilcott Contracting

to property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, certified and sealed as shown below, which said company (the word company being understood throughout this bill of lading as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or vessel, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee - For purposes of notification only.)

Consigned to Ricelli, Trucking

Destination 303 Brew Rd Bergen State of NY Zip Code _____ County of Hudson

Routing 386 to 35A Delivering Carrier _____ Vehicle or Car Initial _____ No. _____

Collect On Delivery _____ and remit to: _____

C. O. D. charge to be paid by { Shipper Consignee

Street _____ City _____ State _____

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Car.)	Class or Rate	Check Column
	<u>Contaminated Soil</u>			
	<u>Profile # 111627 NY</u>			
	<u>KIM TUNG 9-27-13</u>			

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

[Signature]
(Signature of Consignor)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received \$ _____ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____ (the signature here acknowledges only the amount prepaid.)

Charges Advanced: \$ _____

the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

is agreed or declared value of the property is hereby officially stated by the shipper to be not exceeding _____ per CWC

Shipper, Per Dave LWB Agent, Per _____

Permanent post-office address of shipper.

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

3



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 753549

Customer Name WOLCOITCONTRACTING-111627NY W Carrier RIC RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 15 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver NOV 12 2012
 Hauling Ticket# Check#
 Route 67500 Billing # 0001581
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest * Grid 19
 Destination
 PU
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	78220 lb
In	09/27/2013 11:05:31	Scaled	BSDHVE		Tare	20660 lb
Out	09/27/2013 11:05:31		BSDHVE		Net	49560 lb
					Tons	24.78

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Det-RGC-	100	24.78	Tons				MON
2 FUEL-Fuel Surcharg	100		%				MON
3 EVF-P-Standard Env	100		%				MON
4 RCR-P-Regulatory C	100		%				MON

Total Tax
 Total Ticket

Driver's Signature _____



Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading,

at Portland, Oregon from ...

The property described herein, in apparent good order, except as noted hereon and condition of contents of packages unexamined, assigned and delivered as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to the usual place of delivery at said destination, if on his own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time involved in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, found contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee -- For purposes of notification only.)

Consigned to P.O. # 7000

Destination 223 1/2 Ave NE, Oregon State of OR Zip Code 97102 County of Clatsop

Routing ... Delivering Carrier ... Vehicle or Car Initial ... No. 15

Collect On Delivery

\$... and remit to: ...

C. O. D. charge to be paid by Shipper Consignee

Street ... City ... State ...

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Car.)	Class or Rate	Check Column
	Continued 501 Pro A # 11627 W4. R. P. ... 9/27/13			

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

...
(Signature of Consignor)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received \$... to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per ...
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:
\$...

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE -- Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per ...

Shipper, Per ... Agent, Per ...

3

Permanent post-office address of shipper:

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (505) 494-3000

Original
 Ticket# 753579

Customer Name WOLCOTT CONTRACTING-111627NY W Carrier RIC RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 15 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver NOV 12 2012
 Hauling Ticket# Check#
 Route 67500 Billing # 0001581
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest * Grid 19
 PO
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	77040 lb
In	09/27/2013 12:38:05	Scale1	KKING5		Tare	20660 lb
Out	09/27/2013 12:38:05		KKING5		Net	40300 lb
					Tons	24.19

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pct-RGC-	100	24.19	Tons				MON
2 FUEL-Fuel Surcharg	100		%				MON
3 EVF-P-Standard Env	100		%				MON
4 RCR-P-Regulatory C	100		%				MON

Total Tax
 Total Ticket

Driver's Signature _____



This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

at 200 Division, Scottsville NY from Wick Contracting

The property described below, if separate good order, except as noted (contents and condition of contents of packages unopened) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery or said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each car or of all or any of said property over all or any portion of said route to destination, and as to each party at any time involved in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee - For purposes of notification only.)

Consigned to Kicelli Trucking

Destination 303 Brown St Street Brooklyn City State of NY Zip Code 11201 County of Kings

Routing 11 33A Delivering Carrier Wick Vehicle or Car Initial 15 No. 15

Collect On Delivery

\$ _____ and remit to: _____

C. O. D. charge to be paid by { Shipper / Consignee

Street _____ City _____ State _____

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Car.)	Class or Rate	Check Column
	Contaminated Soil. Parcel # 11627 NY KIM KING 9.27.13			

Subject to Section 7 of conditions this shipment is to be delivered to consignee without recourse on the signor, the consignor shall sign the following statements:

The carrier shall not make delivery this shipment without payment of freight and all other lawful charges.

[Signature]
(Signature of Consignor.)

If charges are to be prepaid, write stamp here, "TO BE PREPAID."

Received \$ _____ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____ (the signature here acknowledges only the amount Prepaid.)

Charges Advanced: \$ _____

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE -- Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per CWC

Shipper, Per DAVE TUCK Agent, Per _____

Permanent post-office address of shipper, _____

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (505) 494-3000

Original
 Ticket# 753519

Customer Name WOLCOTT CONTRACTING-111627NY W Carrier RTO RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 72 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route 08750 Billing # 0001501
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest #
 Destination Grid 19
 PO
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	
In	09/27/2013 09:30:10	Scale1	KKINGS			64740
Out	09/27/2013 09:55:47	Scale2	KKINGS			29120
					Net	35620
					Tons	17.

Comments

Product	LN#	Qty	UDM	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-	100	17.01 Tons				MON
2	FUEL-Fuel Surcharg	100	%				MON
3	EVF-P-Standard Env	100	%				MON
4	RCR-P-Regulatory C	100	%				MON

Total Tax
 Total Ticket

Driver's Signature _____

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's # 72

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

at COOP DIVISION, Southview, NY from Walcott Construction
the property described herein, in apparent good order, except as noted (partments and condition of contents of packages unless marked, consigned and described as above herein, which said company (the vessel company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or route, or within the territory of its highway operations, otherwise to deliver to another carrier in the mode to said destination, it is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee - For purposes of notification only.)

Consigned to Russell Trucking
 Destination 303 Brewster Rd Street Begin City NY State of NY Zip Code _____ County of Albany
 Routing 386 W 33A Delivering Carrier _____ Vehicle or Car Initial _____ No. 72

Collect On Delivery

\$ _____ and remit to: _____ Street _____ City _____ State _____

C. O. D. charge to be paid by Shipper Consignee

Subject to Section 7 of conditions this shipment is to be delivered to consignee without recourse on the consignor, the consignor shall sign the following statements:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Car.)	Class or Rate	Check Column
	<u>Contaminated Soil</u> <u>Bar A, 4 # 111627 NY</u>			

Billy J. Hagan
 (Signature of Consignor.)

If charges are to be prepaid, write stamp here, "TO BE PREPAID."

Received \$ _____ to apply prepayment of the charges on property described hereon.

Agent or Cashier

Per _____ (the signature here acknowledges and the amount prepaid.)

Charges Advanced:

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per CWC
 Shipper, Per Paul T. Ves Agent, Per _____

Office address of shipper.

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 753560

Customer Name WOLCOTT CONTRACTING-111627NY W Carrier RIC RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 72 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route 88750 Billing # 0001581
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest *
 Destination Grid 19
 PO
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	
In	09/27/2013 11:27:35	Scale1	KKINGS		78560 lb	
Out	09/27/2013 11:27:35		KKINGS		29120 lb	
					Net	49440 lb
					Tons	24.72

Comments This vehicle was over the legal weight limit.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RSC-	100	24.72	Tons				MON
2 FUEL-Fuel Surcharg	100		%				MON
3 EVF-P-Standard Env	100		%				MON
4 RCR-P-Regulatory C	100		%				MON

Total Tax
 Total Ticket

Driver's Signature _____



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Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

at CooperVision Scottsville, VA from Wade H Contracting

The property described below, in applicant's good order, except as noted (contents and condition of contents of packages unexamined marked, consigned and destined as shown below, which said company the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if so to over railroad, water line, highway route or route, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, on its receipt by carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time hereafter in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mall or street address of consignee - For purposes of notification only.)

Consigned to Ricelli Trucking

Destination 303 Riverside Drive State of NY Zip Code _____ County of Monte

Routing 396 1-033A Delivering Carrier _____ Vehicle or Car Initial _____ No. 72

Collect On Delivery

\$ _____ and remit to: _____

C. O. D. charge to be paid by Shipper Consignee

Street _____ City _____ State _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Reddy J. Hansen
(Signature of Consignor)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Car.)	Class or Rate	Check Column
	<u>Contaminated Soil</u> <u>Pic. # 111 627 NY.</u> <u>KIM KING</u>			

Received \$ _____ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____ (the signature here acknowledges only the amount prepaid.)

Charges Advanced: \$ _____

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per CWL

Shipper, Per DAVE ILES Agent, Per _____

Permanent post-office address of shipper, _____

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

3



Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (505) 474-3000

Original
 Ticket# 753596

Customer Name WOLCOTT CONTRACTING-111627NY W Carrier RIC RICELLI ENTERPRISES
 Ticket Date 09/27/2013 Vehicle# 72 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver VAN - JULY 18 2012
 Hauling Ticket# Check#
 Route 68750 Billing # 0001581
 State Waste Code Gen EPA ID NOT REQUIRED
 Manifest *
 Destination Grid 19
 PO
 Profile 111627NY (CONTAMINATED SOIL)
 Generator 190-COOPERVISION COOPERVISION

	Time	Scale	Operator	Inbound	Gross	71640
In	09/27/2013 13:01:19	Scale1	RRINGS		Tare	29120
Out	09/27/2013 13:01:19		RRINGS		Net	42520
					Tons	21.

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	21.26	Tons				MON
2 FUEL-Fuel Surcharg	100		%				
3 EVF-P-Standard Env	100		%				
4 RCR-P-Regulatory C	100		%				

Total Tax
 Total Ticket

Driver's Signature _____

(Handwritten signature)

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, is intended solely for filing or record.

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading,

at East 111th Street, New York 24 from Wells Contracting

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unshown marked, consigned and delivered as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to the usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination, in its entirety agreed, as to each of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions and provisions of law, whether written or verbal, herein contained, and the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his consignee.

(Mail or street address of consignee - For purposes of notification or

Consigned to Ricco's Contracting

Destination 303 Brewster Street Bellevue City State of _____ Zip Code _____ County of _____

Routing 586 10 33 A Delivering Carrier _____ Vehicle or Car Initial _____ No. 7A

Collect On Delivery

\$ _____ and remit to: _____

C. O. D. charge to be paid by { Shipper / Consignee

Street _____ City _____ State _____

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Car.)	Class of Rate	Check Column
	<p>Contaminated 8 50.1</p> <p>ProPite # 11627 NY</p> <p>KML KXLG 9-27-13</p>			

Subject to Section 7 of conditions this shipment is to be delivered to consignee without recourse on the signor, the consignor shall sign following statements:
The carrier shall not make delivery of this shipment without payment of and all other lawful charges.

Robert S. Huggins
(Signature of Consignor)

If charges are to be prepaid, stamp here, "TO BE PREPAID."

Received \$ _____ to apply prepayment of the charges on property described hereon.

Agent or Cashier

Per _____ (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

\$ _____

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per LWC

Shipper, Per Wells Contracting

Agent, Per _____

Permanent post-office address of shipper, _____

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Ramsdell, Mark

From: Frank Sowers <flsowers@gw.dec.state.ny.us>
Sent: Thursday, September 26, 2013 9:19 AM
To: Ramsdell, Mark
Cc: (GAdams2@coopervision.com), GaryAdams; (jhogan@coopervision.com), John Hogan; MKenney, Julia
Subject: Re: Fill Submittal - CooperVision V00175

Mark -

The #1 Blend or #1 stone is acceptable for use as backfill without testing for the CooperVision building addition project. Thank you.

Frank Sowers, P.E.
NYSDEC - Region 8
Phone: (585) 226-5357

>>> "Ramsdell, Mark" <MRamsdell@haleyaldrich.com> 9/26/2013 9:11 AM >>>

Frank - the contractor wants to change the backfill type so it can be installed using a sling. They would like to use either #1 Blend or #1 stone. Please see attached gradation.

Please advise.

Thanks,
Mark

Mark N. Ramsdell, P.E., CHMM
Senior Construction Project Manager
Senior Engineer
Haley & Aldrich of New York
200 Town Centre Drive, Suite 2
Rochester, NY 14623
Tel: 585.321.4262
Fax: 585.486.8262
mramsdell@HaleyAldrich.com
HaleyAldrich.com

From: Frank Sowers [<mailto:flsowers@gw.dec.state.ny.us>]
Sent: Monday, September 23, 2013 9:04 AM
To: Ramsdell, Mark
Cc: (GAdams2@coopervision.com), GaryAdams; (jhogan@coopervision.com), John Hogan; Julia M Kenney
Subject: Re: FW: 2" CR Submittal - CooperVision V00175

Mark -

This material is acceptable for use as backfill without testing for the CooperVision building addition project. Thank you.

Frank Sowers, P.E.
NYSDEC - Region 8

Phone: (585) 226-5357

>>> "Ramsdell, Mark" <MRamsdell@haleyaldrich.com> 9/23/2013 8:01 AM >>>

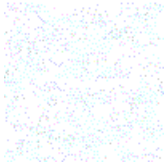
Frank - attached is the submittal for the crushed stone backfill for CooperVision's building addition. Let us know if this is acceptable.

Thanks,

Mark

Mark N. Ramsdell, P.E., CHMM
Senior Construction Project Manager
Senior Engineer
Haley & Aldrich of New York
200 Town Centre Drive, Suite 2
Rochester, NY 14623
Tel: 585.321.4262
Fax: 585.486.8262
mramsdell@HaleyAldrich.com
HaleyAldrich.com

From: Jeff Herberger [<mailto:Jeff.Herberger@lechase.com>]
Sent: Friday, September 20, 2013 2:01 PM
To: Ramsdell, Mark
Cc: Jeff Herberger
Subject: FW: 2" CR Submittal



Mark - see attached for backfill material at CooperVision.

Jeff

Jeffrey M. Herberger
Project Manager
LeChase Construction, LLC
72 Cascade Drive
Rochester, NY 14614

Direct: 585.627.4432
Mobile: 585.967.1835
Main: 585.760.5336
Fax: 595.760.5353

www.conifer-lechase.com

From: Glynda Valentine [<mailto:cwcglynda@rochester.rr.com>]
Sent: Friday, September 20, 2013 1:33 PM
To: Jeff Herberger
Subject: 2" CR Submittal

Please see attached.
Thank you!

Glynda Valentine

Wolcott Contracting & Consulting, Inc.

585-533-2420 phone

585-533-2449 fax

CONFIDENTIALITY NOTICE:

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Date: July 16, 2013

**Hanson Aggregates
North America**
6895 Ellicott Street
Pavilion, NY 14525
Tel 585 584 3132
Fax 585 584 8743
www.hanson.biz

Company: Wolcott Contracting & Consulting, Inc
700 Five Points Road
Rush, NY 14543

Attn: Chuck Wolcott

Project: COOPERVISION
SCOTTSVILLE NY

Hanson Stone Facility:

Honeoye Falls Lima Plant
2049 Honeoye Falls # 6 Rd./PO Box 151
Honeoye Falls, NY 14472

NYSDOT Source #: 4-10RS
NYSDOT Test #: 11AR74S

This is to certify that the material to be used on the above referenced project will be produced in accordance with the most current New York State Department of Transportation specifications. Specific values are listed below.

TYPICAL GRADATIONS (All values are % Passing)													
SIEVE SIZE		Crusher Run #2		Crusher Run #1		#2 Stone		#1 & #2 Blend		#1 Stone		#1A Stone	
in.	mm	% Pass	Spec.	% Pass	Spec.	% Pass	Spec.	% Pass	Spec.	% Pass	Spec.	% Pass	Spec.
3"	75												
2"	50.0	100.0	100										
1 1/2"	37.5	98.4		100.0		100.0	100	100.0					
1"	25.0	86.3		99.1		94.7	90-100	97.5		100.0	100		
3/4"	19.0	72.5		92.3		64.1		78.8		100.0			
1/2"	12.5	55.0		73.6		9.5	0-15	43.6		92.8	90-100		
1/4"	6.3	33.2	25-60	47.3				3.6		10.5	0-15		
1/8"	3.2	20.9		30.1									
#8	2.36	17.2		24.9									
#20	0.85	9.5		14.0									
#40	0.425	6.9	5-40	10.4									
#200	0.075	3.9	0-10	6.1									
ITEM NUMBERS		304.12				703-0201		703-0201		703-0201			

I trust that this information meets with your approval. If we can be of any further assistance, please give us a call.

Very Truly Yours,
Hanson Aggregates

Keith T. Nugent
QC HMA Manager

cc: file
encl.



1354 Tdm

Hanson Aggregates New York, LLC

7660 Imperial Way
Allentown, PA 18195

1

TICKET NO.

062672

GROSS WEIGHT
ACKNOWLEDGED

SEE PRODUCT WARNING ON REVERSE

TRUCKERS SIGNATURE

[Handwritten signature]

BUYER AGREES TO PAY ALL COSTS OF COLLECTIONS FOR THIS TICKET,
INCLUDING ANY REASONABLE ATTORNEYS' FEES.

HANSON AGGREGATES
HONEOYE FALLS PLANT 364
PO BOX 151
2049 HF'S #6 RD.
HONEOYE FALLS, NY 14472
585-624-1220

RECEIVERS INITIALS

*CURB DELIVERY ONLY.
NOT RESPONSIBLE FOR
ANY DAMAGE BEYOND
CURB.



1359

Hanson Aggregates New York, LLC

7660 Imperial Way
Allentown, PA 18195

GROSS WEIGHT
ACKNOWLEDGED

SEE PRODUCT WARNING ON REVERSE

TRUCKERS SIGNATURE

[Handwritten signature]

BUYER AGREES TO PAY ALL COSTS OF COLLECTIONS FOR THIS TICKET,
INCLUDING ANY REASONABLE ATTORNEYS' FEES.

HANSON AGGREGATES
HONEOYE FALLS PLANT 364
PO BOX 151
2049 HF'S #6 RD.
HONEOYE FALLS, NY 14472
585-624-1220

CUSTOMER NUMBER 1605837	SALES ORDER NUMBER	PRODUCT NO. DESCRIPTION 074314
DATE 9/27/2013	TIME 3:29 PM	LOAD # 1 & 2

OLD TO : WOLCOTT CONTRACTING & CONSUL
S.O. DESC : CPU/ COOPER VISION 2013
S.O. INFO :
JOB LOC. : SCHOTTSVILLE

JOB/ITEM #

LOAD # 2

WEIGHTS

Scale 1 - LBS - * Predetermined Tare		TONS TODAY	54.81
GROSS	105660	TONS TO DATE	0.00
ARB#	35580	TONNES TODAY	49.72
ET	70080	TONNES TO DATE	
ONS	35.04		

CUSTOMER NUMBER 1605837	SALES ORDER NUMBER	PRODUCT NO. DESCRIPTION 074314
DATE 9/27/2013	TIME 2:36 PM	LOAD # 1 &

OLD TO : WOLCOTT CONTRACTING & CONSUL
S.O. DESC : CPU/ COOPER VISION 2013
S.O. INFO :
JOB LOC. : SCHOTTSVILLE

WEIGHTS

Scale 1 - LBS - * Manual Weight		TONS TODAY	17.94
GROSS	68540	TONS TO DATE	
TARE	29000	TONNES TODAY	
NET	39540	TONNES TO DATE	
TONS	19.77		

CASH SALE ONLY		TRUCKING INFO.	
MATERIAL	PER TONS	HAUL / TRUCK NUMBER	
TAX		/HFRG20P	
HAUL	PER TONS	HAULER NAME :	
TOTAL		TRUCK NAME :	ush Gravel Corp
		MGW :	107000

CASH SALE ONLY		TRUCKING INFO.	
MATERIAL	PER TONS	HAUL / TRUCK NUMBER	
TAX		/HFRG20P	
HAUL	PER TONS	HAULER NAME :	
TOTAL		TRUCK NAME :	IGCE
		MGW :	6.

WEIGHMASTER LICENSE NUMBER
TICKET NO. 062672

WEIGHMASTER SIGNATURE Colleen Stewart 240253

WEIGHMASTER LICENSE NUMBER
TICKET NO. 062672

WEIGHMASTER SIGNATURE Colleen Stewart 240253

APPENDIX C

Mann-Kendall Analysis Results

Mann-Kendall Analysis: Results
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Source Area	2002-2011		2003-2012		2004-2013		2005-2014
	Spring	Fall	Spring	Fall	Spring	Fall	Spring
MW-205							
1,1,1-TCA	No Trend	No Trend	No Trend	No Trend	No Trend	Increasing	No Trend
1,1-DCA	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
1,1-DCE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mid-Gradient Area							
MW-3							
1,1,1-TCA	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
1,1-DCA	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
1,1-DCE	No Trend	No Trend	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
MW-501							
1,1,1-TCA	Decreasing	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
1,1-DCA	No Trend	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
1,1-DCE	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
MW-502							
1,1,1-TCA	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
1,1-DCA	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
1,1-DCE	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Down-Gradient Area							
MW-202							
1,1,1-TCA	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
1,1-DCA	Increasing	No Trend	Increasing	Increasing	Increasing	Increasing	No Trend
1,1-DCE	Increasing	No Trend	Increasing	Increasing	Increasing	Increasing	Increasing
MW-204							
1,1,1-TCA	No Trend	Decreasing	No Trend	No Trend	No Trend	No Trend	No Trend
1,1-DCA	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend	Increasing
1,1-DCE	No Trend	Increasing	No Trend	No Trend	No Trend	No Trend	Increasing

Notes:

1. This analysis uses the Mann-Kendall test for trend. The test indicates whether or not a set of data is increasing or decreasing at a 95% degree of confidence.
2. A result of "No Trend" is an indication that the data set is not increasing or decreasing significantly at the degree of confidence evaluated, or that the data does not fit the statistical model. It may indicate a stable trend, or it may indicate that the data is not sufficient to establish trend.

References:

1. EPA Practical Methods for Data Analysis, EPA QA/G-9 QA00 UPDATE, July 2000.

Mann-Kendall Analysis: Data Entry
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

1,1,1-Trichloroethane													
Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204	Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Spring 2002	300	8.5	0.125 U	0.0125 U	0.0025 U	0.01	Fall 2002	260	3.4	0.025 U	0.0065 U	0.0025 U	0.011
Spring 2003	320	0.125 U	0.125 U	0.25 U	0.0025 U	0.0025 U	Fall 2003	250	0.23	0.0125 U	0.25 U	0.0025 U	0.006
Spring 2004	140	0.9	0.0125 U	0.0125 U	0.0025 U	0.006	Fall 2004	100	0.42	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2005	76	0.23	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2005	80	0.17	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2006	57	0.05 U	0.025 U	0.025 U	0.0025 U	0.0025 U	Fall 2006	62	0.05 U	0.005 U	0.0025 U	0.0025 U	0.097
Spring 2007	41	0.14	0.005 U	0.125 U	0.0025 U	0.03	Fall 2007	84	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U
Spring 2008	42	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2008	57	0.05 U	0.0065 U	0.125 U	0.0025 U	0.0025 U
Spring 2009	48	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2009	99	0.05 U	0.0065 U	0.125 U	0.0025 U	0.0025 U
Spring 2010	140	0.025 U	0.0065 U	0.125 U	0.0025 U	0.0025 U	Fall 2010	160	0.025 U	0.0065 U	0.25 U	0.0025 U	0.0063
Spring 2011	130	0.025 U	0.0125 U	0.25 U	0.0025 U	0.0025 U	Fall 2011	110	0.025 U	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2012	120	0.025 U	0.0125 U	0.25 U	0.0025 U	0.0051	Fall 2012	210	0.025 U	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2013	140	0.0125 U	0.0125 U	0.065 U	0.0025 U	0.0025 U	Fall 2013	110	0.0125 U	0.0125 U	0.065 U	0.0025 U	0.0025 U
Spring 2014	75	0.0125 U	0.005 U	0.065 U	0.0025 U	0.005	Fall 2014						
Spring 2015							Fall 2015						
Spring 2016							Fall 2016						
Spring 2017							Fall 2017						
Spring 2018							Fall 2018						
Spring 2019							Fall 2019						
Spring 2020							Fall 2020						

Mann-Kendall Analysis: Data Entry
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

1,1-Dichloroethane													
Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204	Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Spring 2002	290	2.4	9.9	0.82	0.0025 U	0.01	Fall 2002	260	3.9	2.2	11	0.0025 U	0.01
Spring 2003	290	8.4	7	13	0.0025 U	0.006	Fall 2003	210	0.56	0.4	1.5	0.0025 U	0.008
Spring 2004	200	1	0.56	0.52	0.0025 U	0.006	Fall 2004	230	3.1	0.6	0.25 U	0.0025 U	0.0025 U
Spring 2005	240	0.68	0.79	6.8	0.0025 U	0.0068	Fall 2005	230	1	0.49	0.25 U	0.0025 U	0.0053
Spring 2006	220	0.34	0.48	0.025 U	0.0025 U	0.0025 U	Fall 2006	270	0.51	0.29	0.016	0.0025 U	0.18
Spring 2007	230	0.93	0.31	0.054	0.0025 U	0.074	Fall 2007	390	0.22	0.24	0.125 U	0.0064	0.007
Spring 2008	200	0.36	0.15	0.125 U	0.0053	0.0056	Fall 2008	200	0.36	0.09	0.125 U	0.0025 U	0.006
Spring 2009	200	0.38	0.17	0.125 U	0.0093	0.0056	Fall 2009	200	0.21	0.11	0.125 U	0.011	0.0063
Spring 2010	230	0.1	0.088	0.125 U	0.013	0.0055	Fall 2010	220	0.16	0.089	0.25 U	0.0025 U	0.013
Spring 2011	300	0.098	0.15	0.25 U	0.016	0.0059	Fall 2011	230	0.052	0.1	0.25 U	0.03	0.0077
Spring 2012	250	0.096	0.17	0.25 U	0.018	0.0082	Fall 2012	250	0.067	0.16	0.25 U	0.051	0.0071
Spring 2013	240	0.077	0.076	0.065 U	0.034	0.0074	Fall 2013	230	0.093	0.13	0.065 U	0.03	0.0074
Spring 2014	220	0.074	0.063	0.065 U	0.036	0.0074	Fall 2014						
Spring 2015							Fall 2015						
Spring 2016							Fall 2016						
Spring 2017							Fall 2017						
Spring 2018							Fall 2018						
Spring 2019							Fall 2019						
Spring 2020							Fall 2020						

Mann-Kendall Analysis: Data Entry
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

1,1-Dichloroethene													
Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204	Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Spring 2002	--	2	0.0125 U	0.0125 U	0.0025 U	0.007	Fall 2002	--	1.4	0.025 U	0.014	0.0025 U	0.008
Spring 2003	--	1.2	0.125 U	0.25 U	0.0025 U	0.005	Fall 2003	--	0.57	0.0125 U	0.25 U	0.0025 U	0.005
Spring 2004	--	0.33	0.0125 U	0.14 U	0.0025 U	0.006	Fall 2004	--	0.36	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2005	--	0.099	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2005	--	0.1	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2006	--	0.05 U	0.025 U	0.025 U	0.0025 U	0.0025 U	Fall 2006	--	0.05 U	0.005 U	0.0025 U	0.0025 U	0.009
Spring 2007	--	0.05 U	0.005 U	0.125 U	0.0025 U	0.0025 U	Fall 2007	--	0.05 U	0.0125 U	0.125 U	0.0056	0.0067
Spring 2008	--	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2008	--	0.05 U	0.0065 U	0.125 U	0.0025 U	0.0025 U
Spring 2009	--	0.05 U	0.0125 U	0.125 U	0.005	0.0025 U	Fall 2009	--	0.05 U	0.0065 U	0.125 U	0.0078	0.0067
Spring 2010	--	0.025 U	0.0065 U	0.125 U	0.0085	0.0053	Fall 2010	--	0.025 U	0.0065 U	0.25 U	0.0025 U	0.013
Spring 2011	--	0.025 U	0.0125 U	0.25 U	0.01	0.0025 U	Fall 2011	--	0.025 U	0.0125 U	0.25 U	0.02	0.0087
Spring 2012	--	0.025 U	0.0125 U	0.25 U	0.014	0.0084	Fall 2012	--	0.025 U	0.0125 U	0.25 U	0.04	0.0067
Spring 2013	--	0.0125 U	0.0125 U	0.065 U	0.032	0.0092	Fall 2013	--	0.0125 U	0.0125 U	0.065 U	0.026	0.0093
Spring 2014	--	0.0125 U	0.005 U	0.065 U	0.036	0.0094	Fall 2014	--					
Spring 2015							Fall 2015	--					
Spring 2016							Fall 2016	--					
Spring 2017							Fall 2017	--					
Spring 2018							Fall 2018	--					
Spring 2019							Fall 2019	--					
Spring 2020							Fall 2020	--					

Mann-Kendall Analysis: 1,1,1-TCA (2004-2013)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-205

S Value	
Neg	Pos
17	25
S Value	8
n	10
P Value	0.242
Evaluation	No Trend

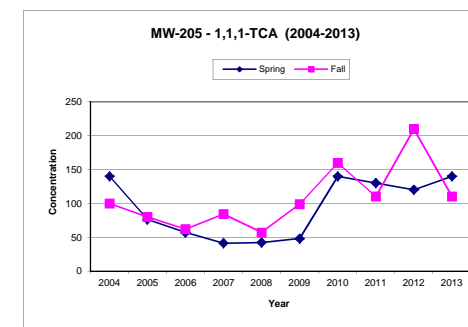
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	140	76	57	41	42	48	140	130	120	140
	140	-64	-83	-99	-98	-92	0	-10	-20	0
	76		-19	-35	-34	-28	64	54	44	64
	57			-16	-15	-9	83	73	63	83
	41				1	7	99	89	79	99
	42					6	98	88	78	98
	48						92	82	72	92
	140							-10	-20	0
	130								-10	10
	120									20
	140									

S Value	
Neg	Pos
12	32
S Value	20
n	10
P Value	0.036
Evaluation	Increasing

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	100	80	62	84	57	99	160	110	210	110
	100	-20	-38	-16	-43	-1	60	10	110	10
	80		-18	4	-23	19	80	30	130	30
	62			22	-5	37	98	48	148	48
	84				-27	15	76	26	126	26
	57					42	103	53	153	53
	99						61	11	111	11
	160							-50	50	-50
	110								100	0
	210									0
	110									-100



MW-3

S Value	
Neg	Pos
38	1
S Value	-37
n	10
P Value	0.00018
Evaluation	Decreasing

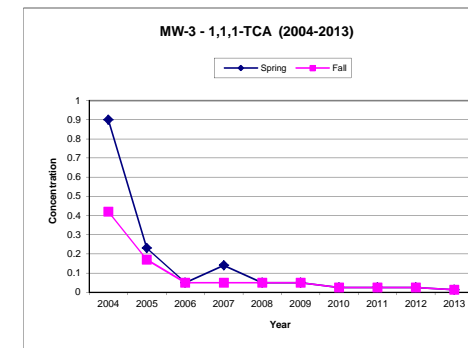
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.9	0.23	0.05	0.14	0.05	0.05	0.025	0.025	0.025	0.0125
	0.9	-0.67	-0.85	-0.76	-0.85	-0.85	-0.875	-0.875	-0.875	-0.8875
	0.23		-0.18	-0.09	-0.18	-0.18	-0.205	-0.205	-0.205	-0.2175
	0.05			0.09	0	0	-0.025	-0.025	-0.025	-0.0375
	0.14				-0.09	-0.09	-0.115	-0.115	-0.115	-0.1275
	0.05					0	-0.025	-0.025	-0.025	-0.0375
	0.05						-0.025	-0.025	-0.025	-0.0375
	0.025							0	0	-0.0125
	0.025								0	-0.0125
	0.025									-0.0125
	0.0125									-0.0125

S Value	
Neg	Pos
36	0
S Value	-36
n	10
P Value	0.00018
Evaluation	Decreasing

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.42	0.17	0.05	0.05	0.05	0.05	0.025	0.025	0.025	0.0125
	0.42	-0.25	-0.37	-0.37	-0.37	-0.37	-0.395	-0.395	-0.395	-0.4075
	0.17		-0.12	-0.12	-0.12	-0.12	-0.145	-0.145	-0.145	-0.1575
	0.05			0	0	0	-0.025	-0.025	-0.025	-0.0375
	0.05				0	0	-0.025	-0.025	-0.025	-0.0375
	0.05					0	-0.025	-0.025	-0.025	-0.0375
	0.05						-0.025	-0.025	-0.025	-0.0375
	0.025							0	0	-0.0125
	0.025								0	-0.0125
	0.025									-0.0125
	0.0125									-0.0125



MW-501

S Value	
Neg	Pos
13	11
S Value	-2
n	10
P Value	0.431
Evaluation	No Trend

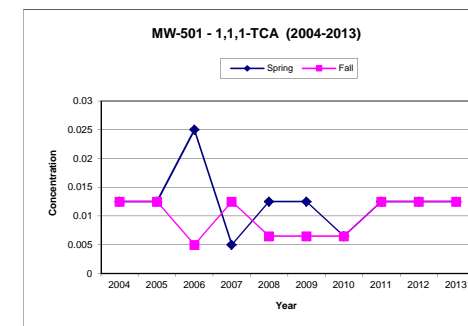
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0125	0.0125	0.025	0.005	0.0125	0.0125	0.0065	0.0125	0.0125	0.0125
	0.0125	0	0.0125	-0.0075	0	0	-0.006	0	0	0
	0.0125		0.0125	-0.0075	0	0	-0.006	0	0	0
	0.025			-0.02	-0.0125	-0.0125	-0.0185	-0.0125	-0.0125	-0.0125
	0.005				0.0075	0.0075	0.0015	0.0075	0.0075	0.0075
	0.0125					0	-0.006	0	0	0
	0.0125						-0.006	0	0	0
	0.0065							0.006	0.006	0.006
	0.0125								0	0
	0.0125									0
	0.0125									0

S Value	
Neg	Pos
11	16
S Value	5
n	10
P Value	0.364
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0125	0.0125	0.005	0.0125	0.0065	0.0065	0.0065	0.0125	0.0125	0.0125
	0.0125	0	-0.0075	0	-0.006	-0.006	-0.006	0	0	0
	0.0125		-0.0075	0	-0.006	-0.006	-0.006	0	0	0
	0.005			0.0075	0.0015	0.0015	0.0015	0.0075	0.0075	0.0075
	0.0125				-0.006	-0.006	-0.006	0	0	0
	0.0065					0	0	0.006	0.006	0.006
	0.0065							0	0.006	0.006
	0.0065							0.006	0.006	0.006
	0.0125								0	0
	0.0125									0
	0.0125									0



Mann-Kendall Analysis: 1,1,1-TCA (2004-2013)
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 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-502

S Value	
Neg	Pos
8	26
S Value	18
n	10
P Value	0.054
Evaluation	No Trend

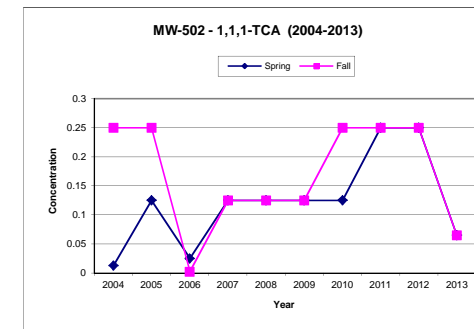
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0125	0.125	0.025	0.125	0.125	0.125	0.125	0.25	0.25	0.065
0.0125		0.1125	0.0125	0.1125	0.1125	0.1125	0.1125	0.2375	0.2375	0.0525
0.125			-0.1	0	0	0	0	0.125	0.125	-0.06
0.025				0.1	0.1	0.1	0.1	0.225	0.225	0.04
0.125					0	0	0	0.125	0.125	-0.06
0.125						0	0	0.125	0.125	-0.06
0.125							0	0.125	0.125	-0.06
0.25								0.125	0.125	-0.06
0.25									0	-0.185
0.25										-0.185
0.065										

S Value	
Neg	Pos
16	16
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.25	0.25	0.0025	0.125	0.125	0.125	0.25	0.25	0.25	0.065
0.25		0	-0.2475	-0.125	-0.125	-0.125	0	0	0	-0.185
0.25			-0.2475	-0.125	-0.125	-0.125	0	0	0	-0.185
0.0025				0.1225	0.1225	0.1225	0.2475	0.2475	0.2475	0.0625
0.125					0	0	0.125	0.125	0.125	-0.06
0.125						0	0	0.125	0.125	-0.06
0.125							0.125	0.125	0.125	-0.06
0.25								0.125	0.125	-0.06
0.25									0	-0.185
0.25										-0.185
0.065										



MW-202

S Value	
Neg	Pos
0	0
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

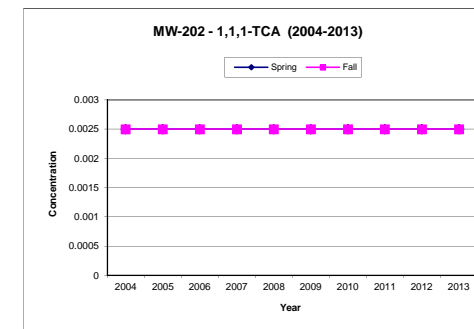
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0	0
0.0025					0	0	0	0	0	0
0.0025						0	0	0	0	0
0.0025							0	0	0	0
0.0025								0	0	0
0.0025									0	0
0.0025										0
0.0025										

S Value	
Neg	Pos
0	0
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0	0
0.0025					0	0	0	0	0	0
0.0025						0	0	0	0	0
0.0025							0	0	0	0
0.0025								0	0	0
0.0025									0	0
0.0025										0
0.0025										



MW-204

S Value	
Neg	Pos
15	9
S Value	-6
n	10
P Value	0.3
Evaluation	No Trend

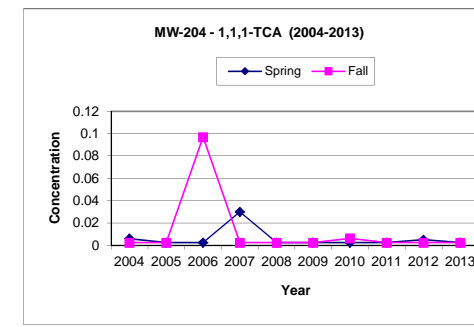
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.006	0.0025	0.0025	0.03	0.0025	0.0025	0.0025	0.0025	0.0051	0.0025
0.006		-0.0035	-0.0035	0.024	-0.0035	-0.0035	-0.0035	-0.0009	-0.0035	0
0.0025			0	0.0275	0	0	0	0	0.0026	0
0.0025				0.0275	0	0	0	0	0.0026	0
0.03					-0.0275	-0.0275	-0.0275	-0.0249	-0.0275	0
0.0025						0	0	0	0.0026	0
0.0025							0	0	0.0026	0
0.0025								0	0.0026	0
0.0025									0.0026	0
0.0051										-0.0026
0.0025										

S Value	
Neg	Pos
10	7
S Value	-3
n	10
P Value	0.431
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.097	0.0025	0.0025	0.0025	0.0063	0.0025	0.0025	0.0025
0.0025		0	0.0945	0	0	0	0.0038	0	0	0
0.0025			0.0945	0	0	0	0.0038	0	0	0
0.097				-0.0945	-0.0945	-0.0945	-0.0907	-0.0945	-0.0945	-0.0945
0.0025					0	0	0.0038	0	0	0
0.0025						0	0.0038	0	0	0
0.0025							0.0038	0	0	0
0.0063								-0.0038	-0.0038	-0.0038
0.0025									0	0
0.0025										0
0.0025										



Mann-Kendall Analysis: 1,1-DCA (2004-2013)
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Degree of Confidence (Alpha): **0.05**

MW-205

S Value	
Neg	Pos
12	28
S Value	16
n	10
P Value	0.078
Evaluation	No Trend

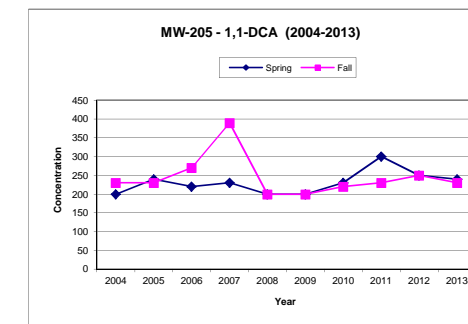
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	200	240	220	230	200	200	230	300	250	240
200		40	20	30	0	0	30	100	50	40
240			-20	-10	-40	-40	-10	60	10	0
220				10	-20	-20	10	80	30	20
230					-30	-30	0	70	20	10
200						0	30	100	50	40
200							30	100	50	40
230								70	20	10
300									-50	-60
250										-10
240										

S Value	
Neg	Pos
19	19
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	230	230	270	390	200	200	220	230	250	230
230		0	40	160	-30	-30	-10	0	20	0
230			40	160	-30	-30	-10	0	20	0
270				120	-70	-70	-50	-40	-20	-40
390					-190	-190	-170	-160	-140	-160
200						0	20	30	50	30
200							20	30	50	30
220								10	30	10
230									20	0
250										0
230										-20



MW-3

S Value	
Neg	Pos
40	5
S Value	-35
n	10
P Value	0.00047
Evaluation	Decreasing

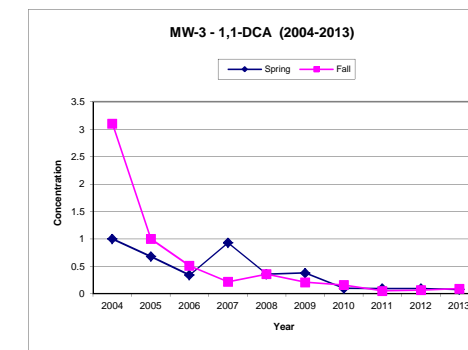
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	1	0.68	0.34	0.93	0.36	0.38	0.1	0.098	0.096	0.077
1		-0.32	-0.66	-0.07	-0.64	-0.62	-0.9	-0.902	-0.904	-0.923
0.68			-0.34	0.25	-0.32	-0.3	-0.58	-0.582	-0.584	-0.603
0.34				0.59	0.02	0.04	-0.24	-0.242	-0.244	-0.263
0.93					-0.57	-0.55	-0.83	-0.832	-0.834	-0.853
0.36						0.02	-0.26	-0.262	-0.264	-0.283
0.38							-0.28	-0.282	-0.284	-0.303
0.1								-0.002	-0.004	-0.023
0.098									-0.002	-0.021
0.096										-0.019
0.077										

S Value	
Neg	Pos
41	4
S Value	-37
n	10
P Value	0.00018
Evaluation	Decreasing

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	3.1	1	0.51	0.22	0.36	0.21	0.16	0.052	0.067	0.093
3.1		-2.1	-2.59	-2.88	-2.74	-2.89	-2.94	-3.048	-3.033	-3.007
1			-0.49	-0.78	-0.64	-0.79	-0.84	-0.948	-0.933	-0.907
0.51				-0.29	-0.15	-0.3	-0.35	-0.458	-0.443	-0.417
0.22					0.14	-0.01	-0.06	-0.168	-0.153	-0.127
0.36						-0.15	-0.2	-0.308	-0.293	-0.267
0.21							-0.05	-0.158	-0.143	-0.117
0.16								-0.108	-0.093	-0.067
0.052									0.015	0.041
0.067										0.026
0.093										



MW-501

S Value	
Neg	Pos
37	6
S Value	-31
n	10
P Value	0.0023
Evaluation	Decreasing

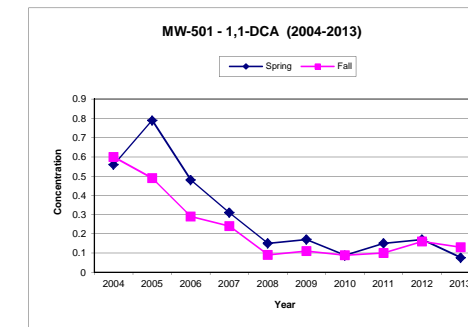
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.56	0.79	0.48	0.31	0.15	0.17	0.088	0.15	0.17	0.076
0.56		0.23	-0.08	-0.25	-0.41	-0.39	-0.472	-0.41	-0.39	-0.484
0.79			-0.31	-0.48	-0.64	-0.62	-0.702	-0.64	-0.62	-0.714
0.48				-0.17	-0.33	-0.31	-0.392	-0.33	-0.31	-0.404
0.31					-0.16	-0.14	-0.222	-0.16	-0.14	-0.234
0.15						0.02	-0.062	0	0.02	-0.074
0.17							-0.082	-0.02	0	-0.094
0.088								0.062	0.082	-0.012
0.15									0.02	-0.074
0.17										-0.094
0.076										

S Value	
Neg	Pos
34	11
S Value	-23
n	10
P Value	0.023
Evaluation	Decreasing

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.6	0.49	0.29	0.24	0.09	0.11	0.089	0.1	0.16	0.13
0.6		-0.11	-0.31	-0.36	-0.51	-0.49	-0.511	-0.5	-0.44	-0.47
0.49			-0.2	-0.25	-0.4	-0.38	-0.401	-0.39	-0.33	-0.36
0.29				-0.05	-0.2	-0.18	-0.201	-0.19	-0.13	-0.16
0.24					-0.15	-0.13	-0.151	-0.14	-0.08	-0.11
0.09						0.02	-0.001	0.01	0.07	0.04
0.11							-0.021	-0.01	0.05	0.02
0.089								0.011	0.071	0.041
0.1									0.06	0.03
0.16										0.03
0.13										-0.03



Mann-Kendall Analysis: 1,1-DCA (2004-2013)
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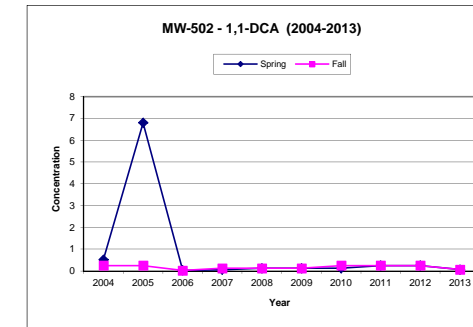
Degree of Confidence (Alpha): **0.05**

MW-502

S Value		Mann-Kendall Trend: Spring										
Neg	Pos	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
21	20	Data	0.52	6.28	-0.495	-0.466	-0.395	-0.395	-0.395	-0.27	-0.27	-0.455
S Value	-1		6.8	-6.775	-6.746	-6.675	-6.675	-6.675	-6.55	-6.55	-6.735	
n	10		0.025	0.029	0.1	0.1	0.1	0.1	0.225	0.225	0.04	
P Value	0.5		0.054	0.071	0.071	0.071	0.071	0.196	0.196	0.196	0.011	
Evaluation	No Trend		0.125	0	0	0	0	0.125	0.125	0.125	-0.06	
			0.125	0	0	0	0	0.125	0.125	0.125	-0.06	
			0.25	0	0	0	0	0.125	0.125	0	-0.185	
			0.25	0	0	0	0	0.125	0.125	0	-0.185	
			0.25	0	0	0	0	0.125	0.125	0	-0.185	
			0.065	0	0	0	0	0.125	0.125	0	-0.185	

S Value	
Neg	Pos
16	16
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

S Value		Mann-Kendall Trend: Fall										
Neg	Pos	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
16	16	Data	0.25	0	-0.234	-0.125	-0.125	-0.125	0	0	0	-0.185
S Value	0		0.25	-0.234	-0.125	-0.125	-0.125	0	0	0	0	-0.185
n	10		0.016	0.109	0.109	0.109	0.109	0.234	0.234	0.234	0.049	
P Value	0.5		0.125	0	0	0	0	0.125	0.125	0.125	-0.06	
Evaluation	No Trend		0.125	0	0	0	0	0.125	0.125	0.125	-0.06	
			0.125	0	0	0	0	0.125	0.125	0.125	-0.06	
			0.25	0	0	0	0	0.125	0.125	0	-0.185	
			0.25	0	0	0	0	0.125	0.125	0	-0.185	
			0.25	0	0	0	0	0.125	0.125	0	-0.185	
			0.065	0	0	0	0	0.125	0.125	0	-0.185	

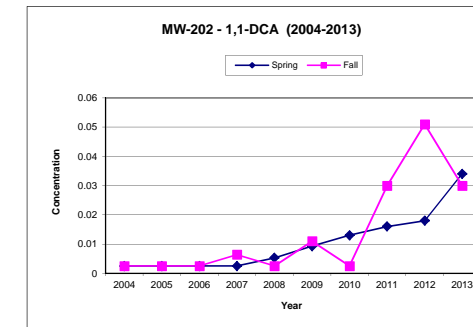


MW-202

S Value		Mann-Kendall Trend: Spring										
Neg	Pos	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
0	39	Data	0.0025	0	0	0	0.0028	0.0068	0.0105	0.0135	0.0155	0.0315
S Value	39		0.0025	0	0	0	0.0028	0.0068	0.0105	0.0135	0.0155	0.0315
n	10		0.0025	0	0	0	0.0028	0.0068	0.0105	0.0135	0.0155	0.0315
P Value	0.000058		0.0025	0	0	0	0.0028	0.0068	0.0105	0.0135	0.0155	0.0315
Evaluation	Increasing		0.0053	0	0	0	0.004	0.0077	0.0107	0.0127	0.0287	
			0.0093	0	0	0	0.0037	0.0067	0.0087	0.0247		
			0.013	0	0	0	0.003	0.005	0.021			
			0.016	0	0	0	0.002	0.018				
			0.018	0	0	0	0.016					
			0.034	0	0	0	0.016					

S Value	
Neg	Pos
4	30
S Value	26
n	10
P Value	0.0083
Evaluation	Increasing

S Value		Mann-Kendall Trend: Fall										
Neg	Pos	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
4	30	Data	0.0025	0	0	0.0039	0	0.0085	0	0.0275	0.0485	0.0275
S Value	26		0.0025	0	0	0.0039	0	0.0085	0	0.0275	0.0485	0.0275
n	10		0.0025	0	0	0.0039	0	0.0085	0	0.0275	0.0485	0.0275
P Value	0.0083		0.0064	0	0	0.0039	0	0.0085	0	0.0275	0.0485	0.0275
Evaluation	Increasing		0.0025	0	0	-0.0039	0.0046	-0.0039	0.0236	0.0446	0.0236	
			0.011	0	0	0.0085	0	0.0085	0	0.0275	0.0485	0.0275
			0.0025	0	0	0.0085	0	0.0085	0	0.0275	0.0485	0.0275
			0.03	0	0	0.0085	0	0.0085	0	0.0275	0.0485	0.0275
			0.051	0	0	0.0085	0	0.0085	0	0.0275	0.0485	0.0275
			0.03	0	0	0.0085	0	0.0085	0	0.0275	0.0485	0.0275

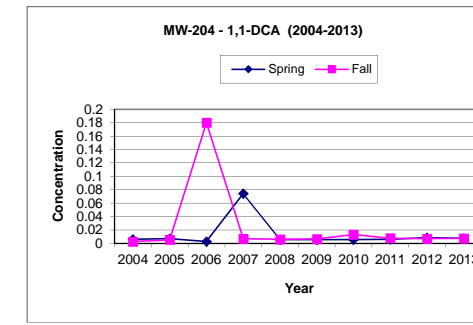


MW-204

S Value		Mann-Kendall Trend: Spring										
Neg	Pos	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
19	25	Data	0.006	0.0008	-0.0035	0.068	-0.0004	-0.0004	-0.0005	-0.0001	0.0022	0.0014
S Value	6		0.0068	-0.0043	0.0672	-0.0012	-0.0012	-0.0013	-0.0009	0.0014	0.0006	
n	10		0.0025	0.0715	0.0031	0.0031	0.003	0.0034	0.0057	0.0049		
P Value	0.3		0.074	-0.0684	-0.0684	-0.0685	-0.0681	-0.0658	-0.0666			
Evaluation	No Trend		0.0056	0	-0.0001	0.0003	0.0026	0.0018				
			0.0056	0	-0.0001	0.0003	0.0026	0.0018				
			0.0055	0	0.0004	0.0027	0.0019					
			0.0059	0	0.0023	0.0015						
			0.0082	0	0.0015							
			0.0074	0	0.0008	0.0014						

S Value	
Neg	Pos
14	31
S Value	17
n	10
P Value	0.078
Evaluation	No Trend

S Value		Mann-Kendall Trend: Fall										
Neg	Pos	Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
14	31	Data	0.0025	0.0028	0.1775	0.0045	0.0035	0.0038	0.0105	0.0052	0.0046	0.0049
S Value	17		0.0053	0.1747	0.0017	0.0007	0.001	0.0077	0.0024	0.0018	0.0021	
n	10		0.18	-0.173	-0.174	-0.1737	-0.167	-0.1723	-0.1729	-0.1726		
P Value	0.078		0.007	-0.001	-0.0007	0.006	0.0007	0.0001	0.0004	0.0004		
Evaluation	No Trend		0.006	0.0003	0.007	0.0017	0.0011	0.0011	0.0014	0.0011		
			0.0063	0.0067	0.0014	0.0008	0.0008	0.0008	0.0011	0.0011		
			0.013	-0.0053	-0.0059	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056		
			0.0077	-0.0006	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003		
			0.0071	-0.0006	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003		
			0.0074	-0.0006	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003		



Mann-Kendall Analysis: 1,1-DCE (2004-2013)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-205

S Value	
Neg	Pos
0	0
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

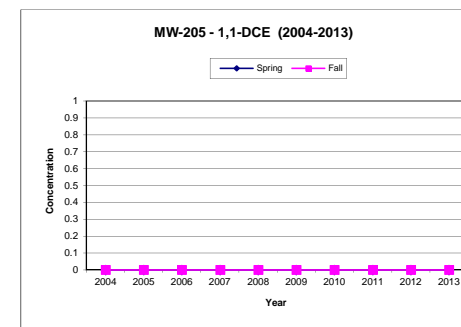
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Data	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	
				0	0	0	0	0	0	0	
					0	0	0	0	0	0	
						0	0	0	0	0	
							0	0	0	0	
								0	0	0	
									0	0	
										0	
											0

S Value	
Neg	Pos
0	0
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Data	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	
				0	0	0	0	0	0	0	
					0	0	0	0	0	0	
						0	0	0	0	0	
							0	0	0	0	
								0	0	0	
									0	0	
										0	
											0



MW-3

S Value	
Neg	Pos
36	0
S Value	-36
n	10
P Value	0.00018
Evaluation	Decreasing

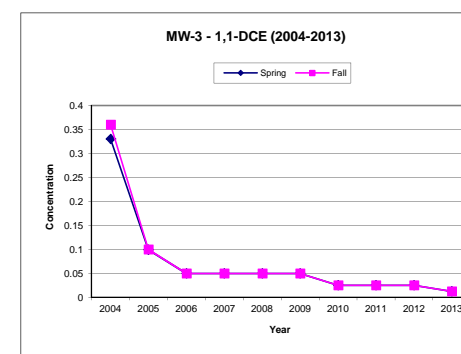
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Data	0.33	0.099	0.05	0.05	0.05	0.05	0.025	0.025	0.025	0.0125	
	0.33	-0.231	-0.28	-0.28	-0.28	-0.28	-0.305	-0.305	-0.305	-0.3175	
	0.099		-0.049	-0.049	-0.049	-0.049	-0.074	-0.074	-0.074	-0.0865	
	0.05			0	0	0	-0.025	-0.025	-0.025	-0.0375	
	0.05				0	0	-0.025	-0.025	-0.025	-0.0375	
	0.05					0	-0.025	-0.025	-0.025	-0.0375	
	0.05						-0.025	-0.025	-0.025	-0.0375	
	0.025							0	0	-0.0125	
	0.025								0	-0.0125	
	0.025									-0.0125	
	0.0125										-0.0125

S Value	
Neg	Pos
36	0
S Value	-36
n	10
P Value	0.00018
Evaluation	Decreasing

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Data	0.36	0.1	0.05	0.05	0.05	0.05	0.025	0.025	0.025	0.0125	
	0.36	-0.26	-0.31	-0.31	-0.31	-0.31	-0.335	-0.335	-0.335	-0.3475	
	0.1		-0.05	-0.05	-0.05	-0.05	-0.075	-0.075	-0.075	-0.0875	
	0.05			0	0	0	-0.025	-0.025	-0.025	-0.0375	
	0.05				0	0	-0.025	-0.025	-0.025	-0.0375	
	0.05					0	-0.025	-0.025	-0.025	-0.0375	
	0.05						-0.025	-0.025	-0.025	-0.0375	
	0.025							0	0	-0.0125	
	0.025								0	-0.0125	
	0.025									-0.0125	
	0.0125										-0.0125



MW-501

S Value	
Neg	Pos
13	11
S Value	-2
n	10
P Value	0.431
Evaluation	No Trend

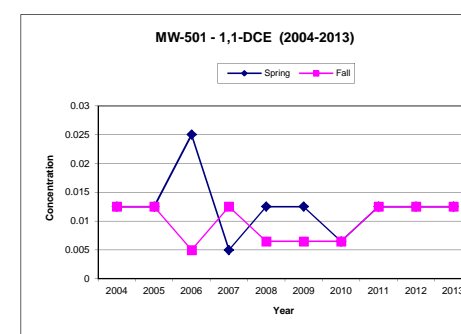
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Data	0.0125	0.0125	0.025	0.005	0.0125	0.0125	0.0065	0.0125	0.0125	0.0125	
	0.0125		0	0.0125	-0.0075	0	0	-0.006	0	0	
	0.0125			0.0125	-0.0075	0	0	-0.006	0	0	
	0.025				-0.02	-0.0125	-0.0125	-0.0185	-0.0125	-0.0125	
	0.005				0.0075	0.0075	0.0015	0.0075	0.0075	0.0075	
	0.0125					0	-0.006	0	0	0	
	0.0125						-0.006	0	0	0	
	0.0065							0.006	0.006	0.006	
	0.0125								0	0	
	0.0125									0	
	0.0125										0

S Value	
Neg	Pos
11	16
S Value	5
n	10
P Value	0.364
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
Data	0.0125	0.0125	0.005	0.0125	0.0065	0.0065	0.0065	0.0125	0.0125	0.0125		
	0.0125		0	-0.0075	0	-0.006	-0.006	-0.006	0	0		
	0.0125			-0.0075	0	-0.006	-0.006	-0.006	0	0		
	0.005				0.0075	0.0015	0.0015	0.0015	0.0075	0.0075		
	0.0125					-0.006	-0.006	-0.006	0	0		
	0.0065						0	0.006	0.006	0.006		
	0.0065							0	0.006	0.006		
	0.0065								0.006	0.006		
	0.0125									0		
	0.0125										0	
	0.0125											0



Mann-Kendall Analysis: 1,1-DCE (2004-2013)
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 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-502

S Value	
Neg	Pos
15	19
S Value	4
n	10
P Value	0.364
Evaluation	No Trend

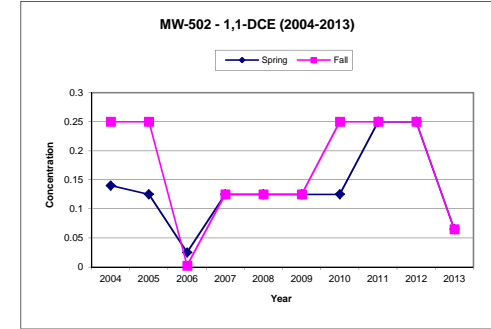
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.14	0.125	0.025	0.125	0.125	0.125	0.125	0.25	0.25	0.065
	0.14	-0.015	-0.115	-0.015	-0.015	-0.015	-0.015	0.11	0.11	-0.075
	0.125		-0.1	0	0	0	0	0.125	0.125	-0.06
	0.025			0.1	0.1	0.1	0.1	0.225	0.225	0.04
	0.125							0.125	0.125	-0.06
	0.125							0.125	0.125	-0.06
	0.125							0	0.125	-0.06
	0.125							0.125	0.125	-0.06
	0.25								0	-0.185
	0.25									-0.185
	0.25									-0.185
	0.065									-0.185

S Value	
Neg	Pos
16	16
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.25	0.25	0.0025	0.125	0.125	0.125	0.25	0.25	0.25	0.065
	0.25		-0.2475	-0.125	-0.125	-0.125	0	0	0	-0.185
	0.0025		-0.2475	-0.125	-0.125	-0.125	0	0	0	-0.185
	0.125			0.1225	0.1225	0.1225	0.2475	0.2475	0.2475	0.0625
	0.125						0.125	0.125	0.125	-0.06
	0.125						0	0.125	0.125	-0.06
	0.125						0.125	0.125	0.125	-0.06
	0.25							0	0	-0.185
	0.25								0	-0.185
	0.25									-0.185
	0.065									-0.185



MW-202

S Value	
Neg	Pos
0	35
S Value	35
n	10
P Value	0.00047
Evaluation	Increasing

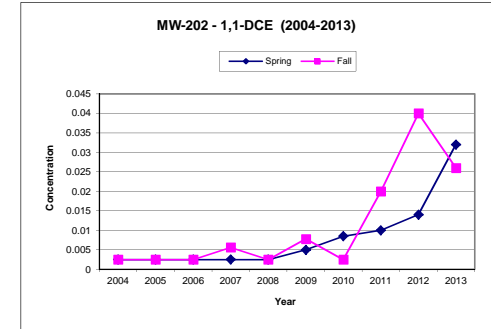
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.005	0.0085	0.01	0.014	0.032
	0.0025		0	0	0	0.0025	0.006	0.0075	0.0115	0.0295
	0.0025		0	0	0	0.0025	0.006	0.0075	0.0115	0.0295
	0.0025			0	0	0.0025	0.006	0.0075	0.0115	0.0295
	0.0025				0	0.0025	0.006	0.0075	0.0115	0.0295
	0.0025					0.0025	0.006	0.0075	0.0115	0.0295
	0.005						0.0035	0.005	0.009	0.027
	0.0085							0.0015	0.0055	0.0235
	0.01								0.004	0.022
	0.014									0.018
	0.032									

S Value	
Neg	Pos
4	31
S Value	27
n	10
P Value	0.0083
Evaluation	Increasing

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0025	0.0056	0.0025	0.0078	0.0025	0.02	0.04	0.026
	0.0025		0	0.0031	0	0.0053	0	0.0175	0.0375	0.0235
	0.0025		0	0.0031	0	0.0053	0	0.0175	0.0375	0.0235
	0.0025			0.0031	0	0.0053	0	0.0175	0.0375	0.0235
	0.0056				-0.0031	0.0022	-0.0031	0.0144	0.0344	0.0204
	0.0025					0.0053	0	0.0175	0.0375	0.0235
	0.0078						-0.0053	0.0122	0.0322	0.0182
	0.0025							0.0175	0.0375	0.0235
	0.02								0.02	0.006
	0.04									-0.014
	0.026									



MW-204

S Value	
Neg	Pos
8	22
S Value	14
n	10
P Value	0.108
Evaluation	No Trend

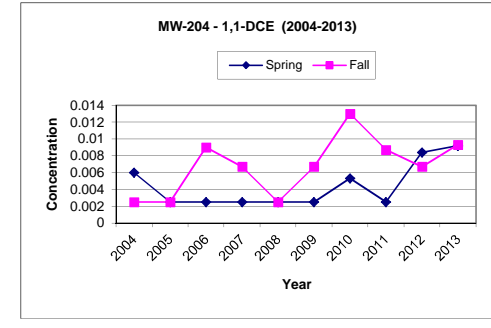
Mann-Kendall Trend: Spring

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.006	0.0025	0.0025	0.0025	0.0025	0.0025	0.0053	0.0025	0.0084	0.0092
	0.006	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0007	-0.0035	0.0024	0.0032
	0.0025		0	0	0	0	0.0028	0	0.0059	0.0067
	0.0025			0	0	0	0.0028	0	0.0059	0.0067
	0.0025				0	0	0.0028	0	0.0059	0.0067
	0.0025					0	0.0028	0	0.0059	0.0067
	0.0025						0.0028	0	0.0059	0.0067
	0.0053							-0.0028	0.0031	0.0039
	0.0025								0.0059	0.0067
	0.0084									0.0008
	0.0092									

S Value	
Neg	Pos
10	29
S Value	19
n	10
P Value	0.054
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.009	0.0067	0.0025	0.0067	0.013	0.0087	0.0067	0.0093
	0.0025		0	0.0065	0.0042	0	0.0042	0.0105	0.0062	0.0068
	0.0025			0.0065	0.0042		0.0042	0.0105	0.0062	0.0068
	0.009			-0.0023	-0.0065	-0.0023	0.004	-0.0003	-0.0023	0.0003
	0.0067				-0.0042	0	0.0063	0.002	0	0.0026
	0.0025					0.0042	0.0105	0.0062	0.0042	0.0068
	0.0067						0.0063	0.002	0	0.0026
	0.013							-0.0043	-0.0063	-0.0037
	0.0087								-0.002	0.0006
	0.0067									0.0026
	0.0093									



Mann-Kendall Analysis: 1,1,1-TCA (2005-2014)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-205

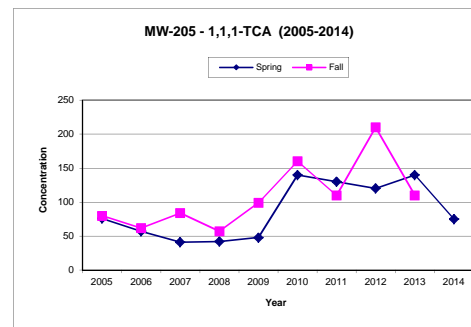
S Value	
Neg	Pos
15	29
S Value	14
n	10
P Value	0.108
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	76	57	41	42	48	140	130	120	140	75
	76	-19	-35	-34	-28	64	54	44	64	-1
	57		-16	-15	-9	83	73	63	83	18
	41			1	7	99	89	79	99	34
	42				6	98	88	78	98	33
	48					92	82	72	92	27
	140						-10	-20	0	-65
	130							-10	10	-55
	120								20	-45
	140									-65
	75									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	80	62	84	57	99	160	110	210	110	
	80	-18	4	-23	19	80	30	130	30	
	62		22	-5	37	98	48	148	48	
	84			-27	15	76	26	126	26	
	57				42	103	53	153	53	
	99					61	11	111	11	
	160						-50	50	-50	
	110							100	0	
	210									-100
	110									
	0									



MW-3

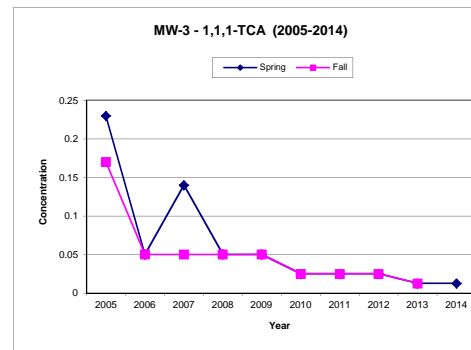
S Value	
Neg	Pos
37	1
S Value	-36
n	10
P Value	0.00018
Evaluation	Decreasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.23	0.05	0.14	0.05	0.05	0.025	0.025	0.025	0.0125	0.0125
	0.23	-0.18	-0.09	-0.18	-0.18	-0.205	-0.205	-0.205	-0.2175	-0.2175
	0.05		0.09	0	0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.14			-0.09	-0.09	-0.115	-0.115	-0.115	-0.1275	-0.1275
	0.05				0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05					-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.025						0	0	-0.0125	-0.0125
	0.025							0	-0.0125	-0.0125
	0.025								-0.0125	-0.0125
	0.0125									0
	0.0125									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.17	0.05	0.05	0.05	0.05	0.025	0.025	0.025	0.0125	0.0125
	0.17	-0.12	-0.12	-0.12	-0.12	-0.145	-0.145	-0.145	-0.1575	-0.1575
	0.05		0	0	0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05			0	0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05				0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05					-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.025						0	0	-0.0125	-0.0125
	0.025							0	-0.0125	-0.0125
	0.025								-0.0125	-0.0125
	0.0125									0
	0.0125									



MW-501

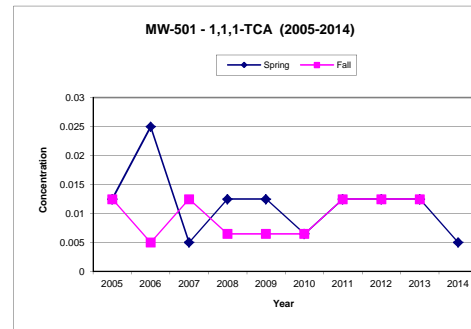
S Value	
Neg	Pos
19	10
S Value	-9
n	10
P Value	0.242
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0125	0.025	0.005	0.0125	0.0125	0.0065	0.0125	0.0125	0.0125	0.005
	0.0125	0.0125	-0.0075	0	0	-0.006	0	0	0	-0.0075
	0.025		-0.02	-0.0125	-0.0125	-0.0185	-0.0125	-0.0125	-0.0125	-0.02
	0.005			0.0075	0.0075	0.0015	0.0075	0.0075	0.0075	0
	0.0125				0	-0.006	0	0	0	-0.0075
	0.0125					-0.006	0	0	0	-0.0075
	0.0125						0.006	0.006	0.006	-0.0015
	0.0065							0	0	-0.0075
	0.0125								0	-0.0075
	0.0125									-0.0075
	0.0125									
	0.005									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0125	0.005	0.0125	0.0065	0.0065	0.0065	0.0125	0.0125	0.0125	
	0.0125	-0.0075	0	-0.006	-0.006	-0.006	0	0	0	
	0.005		0.0075	0.0015	0.0015	0.0015	0.0075	0.0075	0.0075	
	0.0125			-0.006	-0.006	-0.006	0	0	0	
	0.0065				0	0	0.006	0.006	0.006	
	0.0065						0.006	0.006	0.006	
	0.0065						0.006	0.006	0.006	
	0.0125							0	0	
	0.0125								0	
	0.0125									0
	0.0125									
	0									



Mann-Kendall Analysis: 1,1,1-TCA (2005-2014)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-502

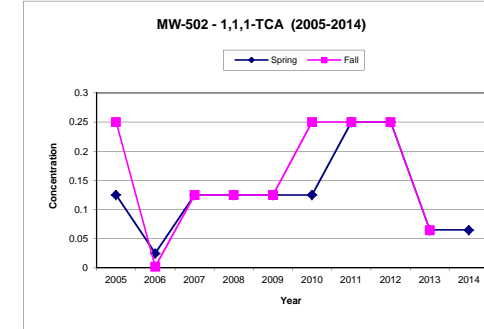
S Value	
Neg	Pos
15	18
S Value	3
n	10
P Value	0.431
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.125	0.025	0.125	0.125	0.125	0.125	0.25	0.25	0.065	0.065
0.125		-0.1	0	0	0	0	0.125	0.125	-0.06	-0.06
0.025			0.1	0.1	0.1	0.1	0.225	0.225	0.04	0.04
0.125				0	0	0	0.125	0.125	-0.06	-0.06
0.125					0	0	0.125	0.125	-0.06	-0.06
0.125						0	0.125	0.125	-0.06	-0.06
0.125							0.125	0.125	-0.06	-0.06
0.25								0	-0.185	-0.185
0.25									-0.185	-0.185
0.065										0
0.065										0

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.25	0.0025	0.125	0.125	0.125	0.25	0.25	0.25	0.065
0.25		-0.2475	-0.125	-0.125	-0.125	0	0	0	-0.185
0.0025			0.1225	0.1225	0.1225	0.2475	0.2475	0.2475	0.0625
0.125				0	0	0.125	0.125	0.125	-0.06
0.125					0	0.125	0.125	0.125	-0.06
0.125						0.125	0.125	0.125	-0.06
0.25							0	0	-0.185
0.25								0	-0.185
0.25									-0.185
0.065									
0.065									
0									



MW-202

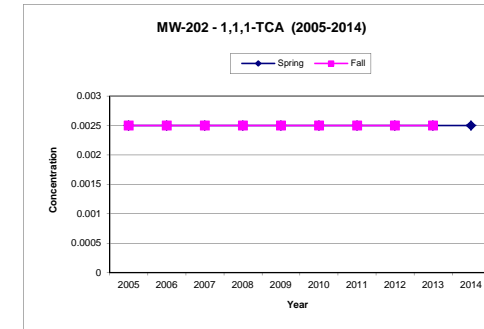
S Value	
Neg	Pos
0	0
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0	0
0.0025					0	0	0	0	0	0
0.0025						0	0	0	0	0
0.0025							0	0	0	0
0.0025								0	0	0
0.0025									0	0
0.0025										0
0										

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0
0.0025					0	0	0	0	0
0.0025						0	0	0	0
0.0025							0	0	0
0.0025								0	0
0.0025									0
0									



MW-204

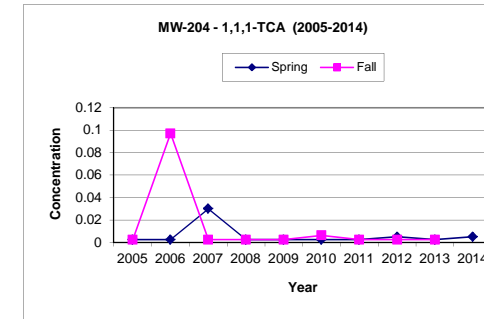
S Value	
Neg	Pos
9	15
S Value	6
n	10
P Value	0.3
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0025	0.0025	0.03	0.0025	0.0025	0.0025	0.0025	0.0051	0.0025	0.005
0.0025		0	0.0275	0	0	0	0	0.0026	0	0.0025
0.0025			0.0275	0	0	0	0	0.0026	0	0.0025
0.03				-0.0275	-0.0275	-0.0275	-0.0275	-0.0249	-0.0275	-0.025
0.0025					0	0	0	0.0026	0	0.0025
0.0025						0	0	0.0026	0	0.0025
0.0025							0	0.0026	0	0.0025
0.0025								0.0026	0	0.0025
0.0051									-0.0026	-0.0001
0.0025										0.0025
0.005										

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.097	0.0025	0.0025	0.0025	0.0063	0.0025	0.0025	0.0025
0.0025		0.0945	0	0	0	0.0038	0	0	0
0.097			-0.0945	-0.0945	-0.0945	-0.0907	-0.0945	-0.0945	-0.0945
0.0025				0	0	0.0038	0	0	0
0.0025					0	0.0038	0	0	0
0.0025						0.0038	0	0	0
0.0063							0.0038	0	0
0.0025								-0.0038	-0.0038
0.0025									-0.0038
0.0025									
0									



Mann-Kendall Analysis: 1,1-DCA (2005-2014)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-205

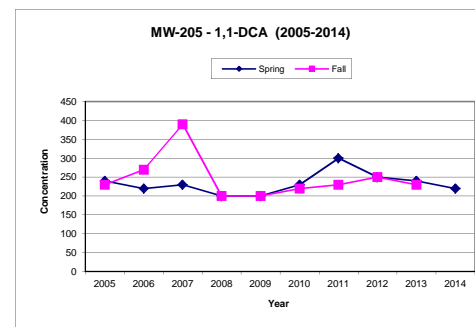
S Value	
Neg	Pos
18	23
S Value	5
n	10
P Value	0.364
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	240	220	230	200	200	230	300	250	240	220
	240	-20	-10	-40	-40	-10	60	10	0	-20
	220		10	-20	-20	10	80	30	20	0
	230			-30	-30	0	70	20	10	-10
	200				0	30	100	50	40	20
	200					30	100	50	40	20
	230						70	20	10	-10
	300							-50	-60	-80
	250								-10	-30
	240									-20
	220									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	230	270	390	200	200	220	230	250	230
	230	40	160	-30	-30	-10	0	20	0
	270		120	-70	-70	-50	-40	-20	-40
	390			-190	-190	-170	-160	-140	-160
	200				0	20	30	50	30
	200					20	30	50	30
	220						10	30	10
	230							20	0
	250								-20
	230								
	0								



MW-3

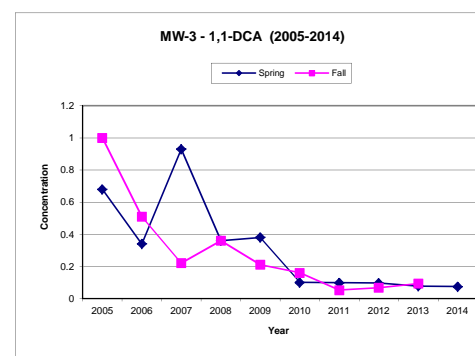
S Value	
Neg	Pos
40	5
S Value	-35
n	10
P Value	0.00047
Evaluation	Decreasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.68	0.34	0.93	0.36	0.38	0.1	0.098	0.096	0.077	0.074
	0.68	-0.34	0.25	-0.32	-0.3	-0.58	-0.582	-0.584	-0.603	-0.606
	0.34		0.59	0.02	0.04	-0.24	-0.242	-0.244	-0.263	-0.266
	0.93			-0.57	-0.55	-0.83	-0.832	-0.834	-0.853	-0.856
	0.36				0.02	-0.26	-0.262	-0.264	-0.283	-0.286
	0.38					-0.28	-0.282	-0.284	-0.303	-0.306
	0.1						-0.002	-0.004	-0.023	-0.026
	0.098							-0.002	-0.021	-0.024
	0.096								-0.019	-0.022
	0.077									-0.003
	0.074									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	1	0.51	0.22	0.36	0.21	0.16	0.052	0.067	0.093
	1	-0.49	-0.78	-0.64	-0.79	-0.84	-0.948	-0.933	-0.907
	0.51		-0.29	-0.15	-0.3	-0.35	-0.458	-0.443	-0.417
	0.22			0.14	-0.01	-0.06	-0.168	-0.153	-0.127
	0.36				-0.15	-0.2	-0.308	-0.293	-0.267
	0.21					-0.05	-0.158	-0.143	-0.117
	0.16						-0.108	-0.093	-0.067
	0.052							0.015	0.041
	0.067								0.026
	0.093								
	0								



MW-501

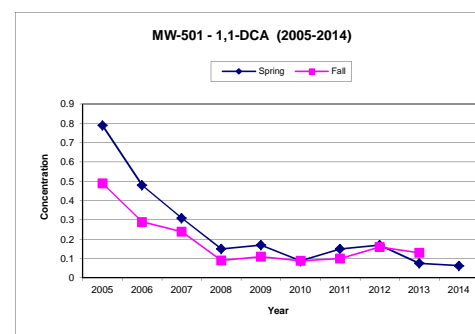
S Value	
Neg	Pos
38	5
S Value	-33
n	10
P Value	0.0011
Evaluation	Decreasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.79	0.48	0.31	0.15	0.17	0.088	0.15	0.17	0.076	0.063
	0.79	-0.31	-0.48	-0.64	-0.62	-0.702	-0.64	-0.62	-0.714	-0.727
	0.48		-0.17	-0.33	-0.31	-0.392	-0.33	-0.31	-0.404	-0.417
	0.31			-0.16	-0.14	-0.222	-0.16	-0.14	-0.234	-0.247
	0.15				0.02	-0.062	0	0.02	-0.074	-0.087
	0.17					-0.082	-0.02	0	-0.094	-0.107
	0.088						0.062	0.082	-0.012	-0.025
	0.15							0.02	-0.074	-0.087
	0.17								-0.094	-0.107
	0.076									-0.013
	0.063									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.49	0.29	0.24	0.09	0.11	0.089	0.1	0.16	0.13
	0.49	-0.2	-0.25	-0.4	-0.38	-0.401	-0.39	-0.33	-0.36
	0.29		-0.05	-0.2	-0.18	-0.201	-0.19	-0.13	-0.16
	0.24			-0.15	-0.13	-0.151	-0.14	-0.08	-0.11
	0.09				0.02	-0.001	0.01	0.07	0.04
	0.11					-0.021	-0.01	0.05	0.02
	0.089						0.011	0.071	0.041
	0.1								0.06
	0.16								
	0.13								-0.03
	0								



Mann-Kendall Analysis: 1,1-DCA (2005-2014)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-502

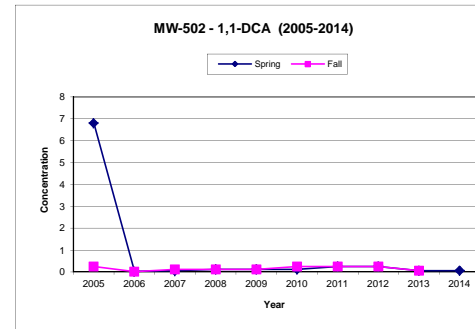
S Value	
Neg	Pos
19	21
S Value	2
n	10
P Value	0.431
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	6.8	0.025	0.054	0.125	0.125	0.125	0.25	0.25	0.065	0.065
	6.8	-6.775	-6.746	-6.675	-6.675	-6.675	-6.55	-6.55	-6.735	-6.735
	0.025		0.029	0.1	0.1	0.1	0.225	0.225	0.04	0.04
	0.054			0.071	0.071	0.071	0.196	0.196	0.011	0.011
	0.125				0	0	0.125	0.125	-0.06	-0.06
	0.125					0	0.125	0.125	-0.06	-0.06
	0.125						0.125	0.125	-0.06	-0.06
	0.25							0	-0.185	-0.185
	0.25								-0.185	-0.185
	0.065									0
	0.065									0

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.25	0.016	0.125	0.125	0.125	0.25	0.25	0.25	0.065
	0.25	-0.234	-0.125	-0.125	-0.125	0	0	0	-0.185
	0.016		0.109	0.109	0.109	0.234	0.234	0.234	0.049
	0.125			0	0	0.125	0.125	0.125	-0.06
	0.125				0	0.125	0.125	0.125	-0.06
	0.125					0.125	0.125	0.125	-0.06
	0.25						0	0	-0.185
	0.25							0	-0.185
	0.25								-0.185
	0.065								
	0.065								



MW-202

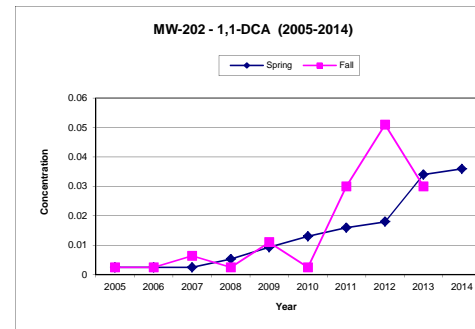
S Value	
Neg	Pos
0	42
S Value	42
n	10
P Value	--
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0025	0.0025	0.0025	0.0053	0.0093	0.013	0.016	0.018	0.034	0.036
	0.0025	0	0	0.0028	0.0068	0.0105	0.0135	0.0155	0.0315	0.0335
	0.0025		0	0.0028	0.0068	0.0105	0.0135	0.0155	0.0315	0.0335
	0.0053			0.0028	0.0068	0.0105	0.0135	0.0155	0.0315	0.0335
	0.0093				0.004	0.0077	0.0107	0.0127	0.0287	0.0307
	0.013					0.0037	0.0067	0.0087	0.0247	0.0267
	0.016						0.005	0.005	0.021	0.023
	0.018							0.002	0.018	0.02
	0.034								0.016	0.018
	0.036									0.002

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0064	0.0025	0.011	0.0025	0.03	0.051	0.03
	0.0025	0	0.0039	0	0.0085	0	0.0275	0.0485	0.0275
	0.0025		0.0039	0	0.0085	0	0.0275	0.0485	0.0275
	0.0064			-0.0039	0.0046	-0.0039	0.0236	0.0446	0.0236
	0.0025				0.0085	0	0.0275	0.0485	0.0275
	0.011					-0.0085	0.019	0.04	0.019
	0.0025						0.0275	0.0485	0.0275
	0.03							0.021	0
	0.051								
	0.03								
	0								



MW-204

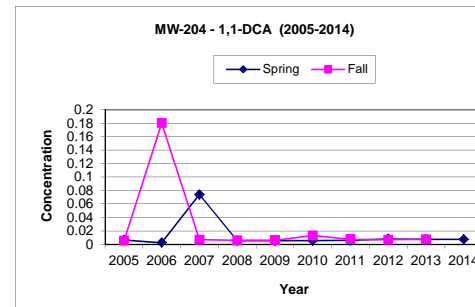
S Value	
Neg	Pos
16	27
S Value	11
n	10
P Value	0.019
Evaluation	Increasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0068	0.0025	0.074	0.0056	0.0056	0.0055	0.0059	0.0082	0.0074	0.0074
	0.0068	-0.0043	0.0672	-0.0012	-0.0012	-0.0013	-0.0009	0.0014	0.0006	0.0006
	0.0025		0.0715	0.0031	0.0031	0.003	0.0034	0.0057	0.0049	0.0049
	0.074			-0.0684	-0.0684	-0.0685	-0.0681	-0.0658	-0.0666	-0.0666
	0.0056				0	-0.0001	0.0003	0.0026	0.0018	0.0018
	0.0056					-0.0001	0.0003	0.0026	0.0018	0.0018
	0.0055						0.0004	0.0027	0.0019	0.0019
	0.0059							0.0023	0.0015	0.0015
	0.0082								-0.0008	-0.0008
	0.0074									0
	0.0074									0

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0053	0.18	0.007	0.006	0.0063	0.013	0.0077	0.0071	0.0074
	0.0053	0.1747	0.0017	0.0007	0.001	0.0077	0.0024	0.0018	0.0021
	0.18		-0.173	-0.174	-0.1737	-0.167	-0.1723	-0.1729	-0.1726
	0.007			-0.001	-0.0007	0.006	0.0007	0.0001	0.0004
	0.006				0.0003	0.007	0.0017	0.0011	0.0014
	0.0063					0.0067	0.0014	0.0008	0.0011
	0.013						-0.0053	-0.0059	-0.0056
	0.0077							-0.0006	-0.0003
	0.0071								0.0003
	0.0074								
	0								



Mann-Kendall Analysis: 1,1-DCE (2005-2014)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-205

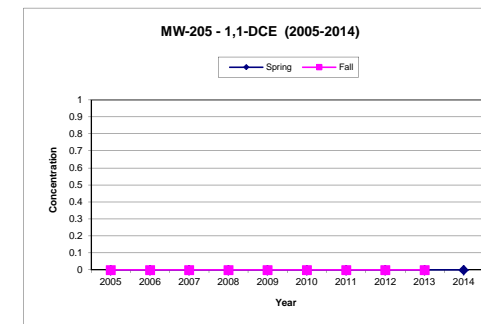
S Value	
Neg	Pos
0	0
S Value	0
n	10
P Value	0.5
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0
					0	0	0	0	0	0
						0	0	0	0	0
							0	0	0	0
								0	0	0
									0	0
										0

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0
				0	0	0	0	0	0
					0	0	0	0	0
						0	0	0	0
							0	0	0
								0	0
									0



MW-3

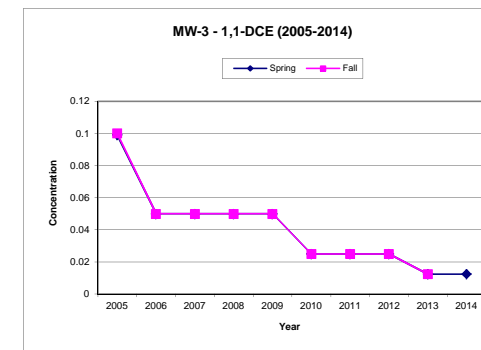
S Value	
Neg	Pos
35	0
S Value	-35
n	10
P Value	0.00047
Evaluation	Decreasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.099	0.05	0.05	0.05	0.05	0.025	0.025	0.025	0.0125	0.0125
	0.099	-0.049	-0.049	-0.049	-0.049	-0.074	-0.074	-0.074	-0.0865	-0.0865
	0.05		0	0	0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05			0	0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05				0	-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.05					-0.025	-0.025	-0.025	-0.0375	-0.0375
	0.025						0	-0.0125	-0.0125	-0.0125
	0.025							0	-0.0125	-0.0125
	0.025								-0.0125	-0.0125
	0.0125									0
	0.0125									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Data	0.1	0.05	0.05	0.05	0.05	0.025	0.025	0.025	0.0125	
	0.1	-0.05	-0.05	-0.05	-0.05	-0.075	-0.075	-0.075	-0.0875	
	0.05		0	0	0	-0.025	-0.025	-0.025	-0.0375	
	0.05			0	0	-0.025	-0.025	-0.025	-0.0375	
	0.05				0	-0.025	-0.025	-0.025	-0.0375	
	0.05					-0.025	-0.025	-0.025	-0.0375	
	0.025						0	-0.0125	-0.0125	
	0.025							0	-0.0125	
	0.025								-0.0125	
	0.0125									0
	0									



MW-501

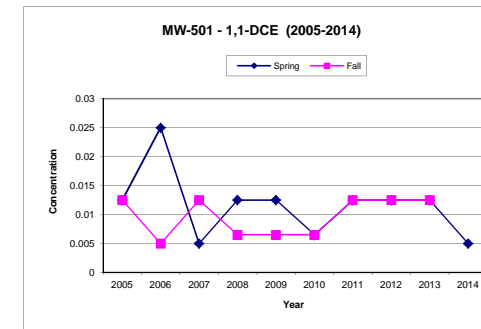
S Value	
Neg	Pos
19	10
S Value	-9
n	10
P Value	0.242
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0125	0.0125	0.005	0.0125	0.0125	0.0065	0.0125	0.0125	0.0125	0.005
	0.0125	0.0125	-0.0075	0	0	-0.006	0	0	0	-0.0075
	0.025		-0.02	-0.0125	-0.0125	-0.0185	-0.0125	-0.0125	-0.0125	-0.02
	0.005			0.0075	0.0075	0.0015	0.0075	0.0075	0.0075	0
	0.0125				0	-0.006	0	0	0	-0.0075
	0.0125					-0.006	0	0	0	-0.0075
	0.0065						0.006	0.006	0.006	-0.0015
	0.0065							0	0	-0.0075
	0.0065								0	-0.0075
	0.0125									0
	0.0125									-0.0075
	0.0125									-0.0075
	0.005									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0125	0.005	0.0125	0.0065	0.0065	0.0065	0.0125	0.0125	0.0125
	0.0125	-0.0075	0	-0.006	-0.006	-0.006	0	0	0
	0.005		0.0075	0.0015	0.0015	0.0015	0.0075	0.0075	0.0075
	0.0125			-0.006	-0.006	-0.006	0	0	0
	0.0065				0	0	0.006	0.006	0.006
	0.0065						0.006	0.006	0.006
	0.0065							0.006	0.006
	0.0125								0
	0.0125								
	0.0125								
	0								



Mann-Kendall Analysis: 1,1-DCE (2005-2014)
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

Degree of Confidence (Alpha): **0.05**

MW-502

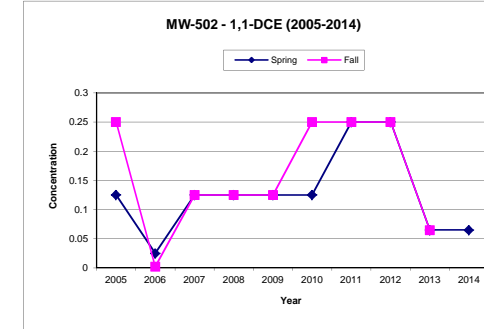
S Value	
Neg	Pos
15	18
S Value	3
n	10
P Value	0.431
Evaluation	No Trend

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.125	0.025	0.125	0.125	0.125	0.125	0.25	0.25	0.065	0.065
	0.125	-0.1	0	0	0	0	0.125	0.125	-0.06	-0.06
	0.025		0.1	0.1	0.1	0.1	0.225	0.225	0.04	0.04
	0.125			0	0	0	0.125	0.125	-0.06	-0.06
	0.125				0		0.125	0.125	-0.06	-0.06
	0.125					0	0.125	0.125	-0.06	-0.06
	0.125						0.125	0.125	-0.06	-0.06
	0.25							0	-0.185	-0.185
	0.25								-0.185	-0.185
	0.065									0
	0.065									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.25	0.0025	0.125	0.125	0.125	0.25	0.25	0.25	0.065
	0.25	-0.2475	-0.125	-0.125	-0.125	0	0	0	-0.185
	0.0025		0.1225	0.1225	0.1225	0.2475	0.2475	0.2475	0.0625
	0.125			0	0	0.125	0.125	0.125	-0.06
	0.125				0	0.125	0.125	0.125	-0.06
	0.125					0.125	0.125	0.125	-0.06
	0.25						0	0	-0.185
	0.25							0	-0.185
	0.25								-0.185
	0.065								
	0.065								
	0								



MW-202

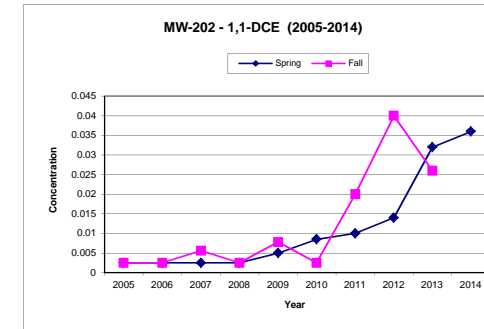
S Value	
Neg	Pos
0	39
S Value	39
n	10
P Value	0.000058
Evaluation	Increasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0025	0.0025	0.0025	0.0025	0.005	0.0085	0.01	0.014	0.032	0.036
	0.0025		0	0	0.0025	0.006	0.0075	0.0115	0.0295	0.0335
	0.0025		0	0	0.0025	0.006	0.0075	0.0115	0.0295	0.0335
	0.0025			0	0.0025	0.006	0.0075	0.0115	0.0295	0.0335
	0.0025				0.0025	0.006	0.0075	0.0115	0.0295	0.0335
	0.005					0.0035	0.005	0.009	0.027	0.031
	0.0085						0.0015	0.0055	0.0235	0.0275
	0.01							0.004	0.022	0.026
	0.014								0.018	0.022
	0.032									0.004
	0.036									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.0025	0.0056	0.0025	0.0078	0.0025	0.02	0.04	0.026
	0.0025		0	0.0031	0	0.0053	0	0.0175	0.0375
	0.0025		0.0031	0	0.0053	0	0.0175	0.0375	0.0235
	0.0056			-0.0031	0.0022	-0.0031	0.0144	0.0344	0.0204
	0.0025				0.0053	0	0.0175	0.0375	0.0235
	0.0078					-0.0053	0.0122	0.0322	0.0182
	0.0025						0.0175	0.0375	0.0235
	0.02							0.02	0.006
	0.04								-0.014
	0.026								
	0								



MW-204

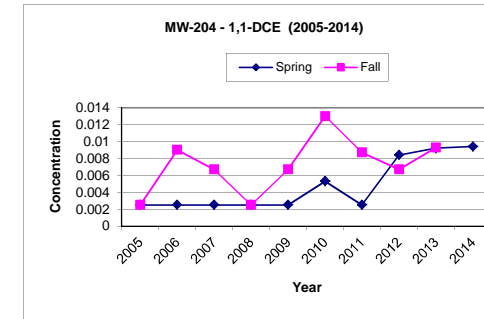
S Value	
Neg	Pos
1	29
S Value	28
n	10
P Value	0.0046
Evaluation	Increasing

Mann-Kendall Trend: Spring

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0053	0.0025	0.0084	0.0092	0.0094
	0.0025		0	0	0	0.0028	0	0.0059	0.0067	0.0069
	0.0025		0	0	0	0.0028	0	0.0059	0.0067	0.0069
	0.0025			0	0	0.0028	0	0.0059	0.0067	0.0069
	0.0025				0	0.0028	0	0.0059	0.0067	0.0069
	0.0053						-0.0028	0.0031	0.0039	0.0041
	0.0025							0.0059	0.0067	0.0069
	0.0084								0.0008	0.001
	0.0092									0.0002
	0.0094									

Mann-Kendall Trend: Fall

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013
Data	0.0025	0.009	0.0067	0.0025	0.0067	0.013	0.0087	0.0067	0.0093
	0.0025		0.0065	0.0042	0	0.0042	0.0105	0.0062	0.0042
	0.009			-0.0023	-0.0065	-0.0023	0.004	-0.0003	-0.0023
	0.0067				-0.0042	0	0.0063	0.002	0
	0.0025					0.0042	0.0105	0.0062	0.0042
	0.0067						0.0063	0.002	0
	0.013							0.002	-0.0043
	0.0087								-0.002
	0.0067								
	0.0093								
	0								



APPENDIX D

SSD System Maintenance and Monitoring Documentation



CooperVision™

TITLE: Monthly SSD System Monitoring

FORM NUMBER: FM00916

REFERENCE SOP: SOP142-30

REVISION NUMBER: 2

Location (Site / Facility Name): CooperVision, Inc.
Location (Address): Scottsville, New York
Client: CooperVision, Inc.

Date	Initials	Vacuum Reading (in. w.c.)						Visual Inspection	Comments / Remarks
		S-1 Rochester	S-2 Honeoye Falls	S-3 Hilton	S-4/5 Palmyra	S-6 Spencerport	S-7 Brockport		
1/18/13	mgf	4.0	3.8	1.5	2.2	3.7	1.6	OK	
2/15/13	MS	3.8	3.8	1.5	2.2	3.7	1.6	OK	
3/15/13	mgf	4.0	3.8	1.5	2.2	3.6	1.6	OK	
4/13/13	MS	3.8	3.8	1.6	2.2	3.4	1.6	OK	
5/13/13	mgf	3.8	3.8	1.6	2.2	3.6	1.6	OK	
6/12/13	mgf	3.	3.5	1.6	2.2	3.6	1.6	OK	

Notes:

Document monthly readings
Email results yearly to contacts
Readings are in inches of water column (in.w.c.)

Contacts:

Mark Ramsdell
Haley & Aldrich 321-4262
Mramsdell@HaleyAldrich.com



CooperVision™

TITLE: Monthly SSD System Monitoring

FORM NUMBER: FM00916

REFERENCE SOP: SOP142-30

REVISION NUMBER: 2

Location (Site / Facility Name): CooperVision, Inc.
Location (Address): Scottsville, New York
Client: CooperVision, Inc.

Date	Initials	Vacuum Reading (in. w.c.)						Visual Inspection	Comments / Remarks
		S-1 Rochester	S-2 Honeoye Falls	S-3 Hilton	S-4/5 Palmyra	S-6 Spencerport	S-7 Brockport		
7/3/13	MS	3.8	3.5	1.6	MB 2.2	3.6	1.6	OK	
8/1/13	MS	3.6	3.6	1.5	2.0	3.5	1.6	OK	
9/2/13	MS	3.7	3.6	1.5	2.0	3.4	1.6	MS OK	
10/2/13	MS	3.8	3.6	1.5	2.2	3.5	1.6	MS OK	
11/2/13	MS	3.8	3.7	1.5	2.2	3.5	1.6	MS OK	
12/3/13	MS	3.8	3.7	1.5	2.2	3.5	1.6	MS OK	

Notes:

Document monthly readings
Email results yearly to contacts
Readings are in inches of water column (in.w.c.)

Contacts:

Mark Ramsdell
Haley & Aldrich 321-4262
Mramsdell@HaleyAldrich.com



CooperVision

TITLE: Monthly SSD System Monitoring

FORM NUMBER:

FM00916

REFERENCE SOP: SOP142-30

REVISION NUMBER: 2

Location (Site / Facility Name): CooperVision, Inc.
 Location (Address): Scottsville, New York
 Client: CooperVision, Inc.

Date	Initials	Vacuum Reading (in. w.c.)						Visual Inspection	Comments / Remarks
		S-1 Rochester	S-2 Honeoye Falls	S-3 Hilton	S-4/5 Palmyra	S-6 Spencerport R.J.	S-7 Brockport		
1/2/14	MS	4.0	3.8	1.6	2.0	3.5	1.6	MS	OK
1-28-14	DK	4.0	3.9	1.6	2.0	3.5	1.6	DK	OK
2-24-14	DK	4.0	3.9	1.6	2.0	3.6	1.6	DK	OK
3-25-14	DK	4.0	3.9	1.6	2.0	3.6	1.6	DK	OK
4-24-14	DK	4.0	3.9	1.6	2.0	3.5	1.6	DK	OK

Notes:

Document monthly readings
 Email results yearly to contacts
 Readings are in inches of water column (in.w.c.)

Contacts:

Mark Ramsdell
 Haley & Aldrich 321-4262
Mramsdell@HaleyAldrich.com

Maintenance Form

Work Order Number
Date Enacted

Due Date: 4/24/2014

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: SOP142-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 30 min

Estimated Cost:

Parts Used:

Remarks: P.M. Complete per procedure SOP142-30

4-24-14
Janet J. Klein

Maintenance Form

Work Order Number
Date Enacted

Due Date: 3/26/2014

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 20 min

Estimated Cost:

Parts Used:

Remarks: P.M. Complete per procedure 142-X-30

3-25-14
Daniel J Klein

Maintenance Form

Work Order Number
Date Enacted

Due Date: 2/27/2014

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 1 hr.

Estimated Cost:

Parts Used:

Remarks: P.M. Complete per procedure 142-X-30

All good.

2-24-14
Daniel J Klein

Maintenance Form

Work Order Number 34757
Date Enacted 1/6/2014

Due Date: 2/1/2014

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: $\frac{1}{2}$ hr

Estimated Cost:

Parts Used:

Remarks: R.M. Complete per procedure 142-X-30

1/28/14

Daniel J. Klen

Maintenance Form

Work Order Number 34517
Date Enacted 12/7/2013

Due Date: 1/2/2014

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 15 mins.

Estimated Cost:

Parts Used:

Remarks:

1/2/14
Rene Scheuring

MS

Maintenance Form

Work Order Number 34287
Date Enacted 11/2/2013

Due Date: 12/2/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: *20 mins.*

Estimated Cost:

Parts Used:

Remarks:

*12/3/13
Rene Scheuing
done one day late due to holiday*

Maintenance Form

Work Order Number 34046
Date Enacted 10/4/2013

Due Date: 11/1/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 30 mins

Estimated Cost:

Parts Used:

Remarks:

11/2/13
Rene Schewing

Maintenance Form

Work Order Number 33850
Date Enacted 9/9/2013

Due Date: 10/2/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 30 mins.

Estimated Cost:

Parts Used:

Remarks:

10/2/13
Rene Schewing

m?

Maintenance Form

Work Order Number 33576
Date Enacted 8/5/2013

Due Date: 8/31/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time:

Estimated Cost:

Parts Used:

30 min.

Remarks:

9/2/2013

Mary J Fay

Maintenance Form

Work Order Number 33364
Date Enacted 7/8/2013

Due Date: 8/2/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 40 min.
Parts Used:

Estimated Cost:

Remarks:

8/1/13 Mary Jo Fay

m5

Maintenance Form

Work Order Number 33205
Date Enacted 6/14/2013

Due Date: 7/12/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 45 mins

Estimated Cost:

Parts Used:

Remarks:

7/3/13
Rene Schewing

Maintenance Form

Work Order Number 32972
Date Enacted 5/17/2013

Due Date: 6/12/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 45 min

Estimated Cost:

Parts Used:

Remarks:

6/12/2013 Mary Jo Fay

Maintenance Form

Work Order Number 32714
Date Enacted 4/13/2013

Due Date: 5/13/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at Cooper Vision in Scottsville, NY by making sure roof fans are always running.

Estimated Time:

Estimated Cost:

Parts Used:

1 hr.

Remarks:

5/13/13

Mary Jo Fay

Maintenance Form

Work Order Number 32547
Date Enacted 3/18/2013

Due Date: 4/13/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 30 mins.

Estimated Cost:

Parts Used:

Remarks:

4/13/13

Rene Sheering

Maintenance Form

Work Order Number 32363
Date Enacted 2/25/2013

Due Date: 3/17/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: Estimated Cost:

Parts Used:

Remarks:

3/14/2013 May J Gay

MS

Maintenance Form

Work Order Number 32137
Date Enacted 1/29/2013

Due Date: 2/17/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 30 mins

Estimated Cost:

Parts Used:

Remarks:

2/15/12
Rene Scheuing

Maintenance Form

Work Order Number 31885
Date Enacted 12/20/2012

Due Date: 1/19/2013

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Multiple Location
Description:	Sub-Slab Depressurization System	Location:	Multiple Location
Serial Number:		Contact Person:	John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: 50min.
Parts Used:

Estimated Cost:

Remarks:

1/18/2013

Mary Jo Fay

APPENDIX E

Groundwater Sampling Field Forms

Coopervision
Water Sampling Event

NM
SM

~~██████~~
4/10-11/2013

Well ID	Previous DTW	Depth To Water (TOR)	Depth to Bottom	PID Reading
MW-1 MW 205	BLOCKED @ 2.5 FT	3.98	27.46	1.0
MW-2	5.52	5.23	11.15	0.0
MW-3	3.88	3.92	9.50	0.6
MW-201	2.34	0.82	14.27	0.0
MW-202	5.99	5.41	18.69	0.0
MW-203	3.22	3.26	19.23	0.0
MW-204	5.48	5.76	19.30	0.0
MW-205 MW-1	3.39	4.71	14.86	0.0
OW-304	3.28	3.23	13.44	0.0
MW-401	4.55	6.11	45.86	0.7
MW-402	3.75	3.06	13.03	0.0
MW-403	4.97	4.45	43.77	0.0
MW-501	4.47	3.61	10.08	0.0
MW-502	5.07	4.57	32.56	0.1
OWD-302 S	2.68	—	—	—
OWD-302D	5.02	—	—	—
OWS-302	7.7	2.90	14.58	0.0
OWS-303S	5.33	5.49	13.79	0.0
OWS-303D	5.01	5.51	25.05	0.0
OW-306	3.13	3.11	13.32	0.0

PAVED OVER

*OW-302S

2.90

14.58

Coopervision
Water Sampling Event

~~4/26/13~~ 4/26/13 N. MANTARO

Well ID	Previous DTW	Depth To Water (TOR)	Depth to Bottom	PID Reading
MW-1	BLOCKED @ 2.5 FT			
MW-2	5.52			
MW-3	3.88			
MW-201	2.34			
MW-202	5.99			
MW-203	3.22			
MW-204	5.48			
MW-205	3.39	3.65	27.41	—
OW-304	3.28			
MW-401	4.55			
MW-402	3.75			
MW-403	4.97			
MW-501	4.47			
MW-502	5.07			
OWD-302 S	2.68			
OWD-302D	5.02			
OWS-302	7.7			
OWS-303S	5.33			
OWS-303D	5.01			
OW-306	3.13			

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-202
 Field Crew: NM/SM

Date: 4/11/13
 Start Time: 1510
 Finished Time: 1610
 Sample Time: 1615

Initial Depth to Water: 5.41
 Well Depth: 18.69
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 18.10

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1510	—	300mL	8.9	7.53	8.99	1.92	13.2	132.1	
1515	—	"	8.8	7.54	9.04	1.58	13.7	129.1	
1520	—	"	8.8	7.54	9.11	1.44	12.11	125.9	
1525	—	"	8.7	7.53	9.30	1.33	10.9	126.9	
1530	—	"	8.7	7.51	9.51	1.27	11.4	130.5	
1535	—	"	8.7	7.50	9.74	1.23	12.8	137.2	
1540	—	"	8.7	7.49	9.64	1.16	10.5	144.8	
1545	—	"	8.8	7.48	9.72	1.15	8.24	150.8	
1550	—	"	8.7	7.46	9.78	1.17	9.46	169.1	
1555	—	"	8.8	7.45	9.79	1.14	10.5	180.6	
1600	—	"	8.7	7.44	10.23	1.12	7.69	200.6	
1605	—	"	8.7	7.44	10.43	1.10	7.62	208.7	
1610	—	"	8.8	7.44	10.18	1.05	8.39	210.9	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:
Sample time 1615

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018

Well ID: MW-Z03

Field Crew: _____

Date: 4/11/13

Start Time: 1330

Finished Time: 1430

Sample Time: 1435

Initial Depth to Water: 3.26

Well Depth: 19.23

Depth to top of screen: _____

Depth to bottom of screen: _____

Depth of Pump Intake: 19.00

Purging Device: Waterra

Tubing in well: No

Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1330	—	300mL	10.5	8.09	0.600	2.73	19.6	120.9	
1335	—	"	9.9	8.05	0.578	2.53	17.9	118.9	
1340	—	"	9.8	8.03	0.579	2.40	15.3	113.2	
1345	—	"	9.4	8.03	0.580	2.43	13.9	117.3	
1350	—	"	9.5	8.02	0.581	2.37	10.3	110.2	
1355	—	"	9.2	8.01	0.590	2.41	16.9	104.6	
1400	—	"	9.2	8.00	0.609	2.45	22.1	101.3	
1405	—	"	9.1	7.99	0.639	2.46	20.8	98.7	
1410	—	"	9.0	7.98	0.679	2.50	17.2	96.2	
1415	—	"	9.2	7.96	0.684	2.49	15.4	94.2	
1420	—	"	9.4	7.90	0.680	2.41	13.7	85.7	
1425	—	"	9.3	7.90	0.74	2.42	11.3	85.4	
1430	—	"	9.3	7.90	0.810	2.56	11.9	84.1	

Extra Parameters:

CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Sample time 1435

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018

Well ID: MW-204

Field Crew: NM/SM

Date: 4/11/13
Start Time: 1635
Finished Time: 1705
Sample Time: 1710

Initial Depth to Water: 5.76
Well Depth: 19.30
Depth to top of screen: _____
Depth to bottom of screen: _____
Depth of Pump Intake: 19.00

Purging Device: Waterra
Tubing in well: No
Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1635	—	300ml	10.3	7.17	3.42	1.76	6.53	183.7	
1640	—	"	10.3	7.18	3.42	1.55	7.12	182.1	
1645	—	"	10.2	7.15	3.41	1.51	7.00	179.3	
1650	—	"	10.2	7.16	3.42	1.44	6.87	176.5	
1655	—	"	10.1	7.15	3.42	1.41	7.10	173.0	
1700	—	"	10.1	7.16	3.40	1.45	6.92	169.9	
1705	—	"	10.3	7.15	3.41	1.44	7.00	164.0	

Extra Parameters:
CO₂ mg/L
Alkalinity mg/L
Ferrous Iron mg/L

Comments:
SAMPLE TIME 1710.

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW205
 Field Crew: NM

Date: 4/26/13
 Start Time: 1035
 Finished Time: 1205
 Sample Time: 1220

Initial Depth to Water: 3.65
 Well Depth: 27.41
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 26.0
 Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1035			13.1	6.010	7.24	0.75	18.2	-51.3	
1040			13.3	6.07	7.31	0.46	8.83	-55.5	
1045		1/2 Gal	13.1	6.08	7.27	0.48	6.05	-56.0	Increase pump speed
1050		3/4 Gal	13.0	6.08	7.30	0.47	4.02	-56.4	Increase pump speed
1055		1 Gal	13.6	6.08	7.25	0.40	2.93	-57.7	Increase pump speed
1100			13.7	6.08	7.28	0.41	3.12	-58.2	
1105		1.5	13.7	6.08	7.31	0.51	3.30	-58.1	
1110		1.75	13.4	6.07	7.32	0.49	3.30	-58.0	
1115		2.5	14.6	6.07	7.29	0.47	4.12	-58.4	Increase pump speed
1120			14.4	6.07	7.31	0.48	4.96	-59.5	
1125			14.3	6.07	7.31	0.54	5.87	-59.4	
1130			14.4	6.07	7.31	0.56	7.14	-59.3	
1135		4.0	14.4	6.07	7.38	0.79	7.93	-57.8	Pumped dry
1140		Slowed							
1145			14.4	6.07	7.29	0.62	8.03	-48.4	
1150			14.6	6.08	7.26	1.14	7.32	-48.0	
1155			14.6	6.08	7.27	1.26	7.88	-46.4	
1200			14.7	6.08	7.27	1.30	7.90	-46.0	
1205			14.7	6.08	7.28	1.37	8.01	-40.7	
			Pass	Pass	Pass	Pass	Pass	Pass	

Extra Parameters:

CO₂ NA mg/L
 Alkalinity Labialc mg/L
 Ferrous Iron 5.5 mg/L

Comments:

Sample 2288-0426-1220-MW205 collected at 1220
 - well MW205 Pumped dry

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number:

Well ID:

Field Crew:

wrong well sample
 70665-018
MW-1 ~~MW-205~~
NM/SM
4/26/13

Date: 4/12/13

Start Time: 1345

Finished Time: 1400

Sample Time: 1430

Initial Depth to Water: 4.71

Well Depth: 14.86

Depth to top of screen:

Depth to bottom of screen:

Depth of Pump Intake: 14.50

Purging Device: Waterra

Tubing in well: No

Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1345	—	150mL	10.9	6.83	1.07	1.45	18.6	-33.9	
1350	—	"	11.1	6.85	0.97	2.69	17.2	-20.3	
1355	—	"	11.5	6.85	0.94	3.45	17.7	-13.9	
1400	—	"	11.9	6.83	0.93	3.47	16.9	-11.0	
		WEEL	AGES	DRY					

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron mg/L

Comments:
SAMPLE TIME 1430

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-3
 Field Crew: NM/SM

Date: 4/11/13
 Start Time: 1110
 Finished Time: _____
 Sample Time: 1310

Initial Depth to Water: 3.92
 Well Depth: 9.50
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 9.00

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
<u>1110</u>	<u>-</u>	<u>150ml/min</u>	<u>8.9</u>	<u>7.13</u>	<u>2.13</u>	<u>12.61</u>	<u>610</u>	<u>295.2</u>	
	<u>WELL GOES DRY -</u>								

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.5 mg/L

Comments: Sample time 1310

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 7066S-018
 Well ID: MW-501
 Field Crew: NM/SM

Date: 4/12/13
 Start Time: 1215
 Finished Time: 1240
 Sample Time: 1305

Initial Depth to Water: 3.61
 Well Depth: 10.08
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 9.80

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1215	—	200ml	10.6	6.92	12.53	0.87	60.8	9.3	
1220	—	"	11.0	6.93	12.47	0.30	15.1	-8.3	
1225	—	"	11.2	6.92	12.44	0.36	25.1	-17.5	
1230	—	"	11.3	6.92	12.38	0.38	20.7	-25.0	
1235	—	"	11.3	6.91	12.32	0.37	18.3	-30.2	
1240	—	"	11.5	6.99	12.18	6.25	15.2	-34.9	
			purged dry		let	recharge			

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 4.25 mg/L

Comments:
SAMPLE TIME 1305

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-502
 Field Crew: NM/SM

Date: 4/12/13
 Start Time: 0840
 Finished Time: 0915
 Sample Time: _____

Initial Depth to Water: 4.57 Purging Device: Waterra
 Well Depth: 32.56 Tubing in well: No
 Depth to top of screen: _____ Tubing Type: PVC
 Depth to bottom of screen: _____
 Depth of Pump Intake: 32.00

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0840	—	200ml	9.4	6.98	3.33	1.10	112	82.0	
0845	—	"	8.9	7.02	3.35	0.41	72.7	-35.6	
0850	—	"	8.5	7.03	3.36	0.31	61.5	-26.5	
0855	—	"	8.16	7.03	3.35	0.29	49.7	-21.4	
0900	—	"	8.3	7.04	3.36	0.29	32.4	-17.6	
0905	—	"	8.9	7.04	3.34	0.27	33.6	-13.4	
0910	—	"	8.8	7.05	3.36	0.24	31.9	-11.6	
0915	—	"	8.7	7.05	3.36	0.24	32.0	-10.1	

Extra Parameters:

CO ₂	mg/L
Alkalinity	mg/L
Ferrous Iron	1.5 mg/L

Comments:

SAMPLE TIME - 0920

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: 0W-302S
 Field Crew: NM/SM

Date: 4/12/13
 Start Time: 0950
 Finished Time: 1040
 Sample Time: 1150

Initial Depth to Water: 2.90
 Well Depth: 14.58
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 14.30

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0950	—	200 ml	8.3	7.21	2.01	0.23	8.21	-54.7	
0955	—	"	7.9	7.16	1.99	0.22	10.9	-59.9	
1000	—	"	7.5	7.17	1.99	0.21	16.7	-62.4	
1005	—	"	7.5	7.19	2.01	0.22	12.9	-63.0	
1010	—	"	8.9	7.07	2.46	0.14	7.32	-68.0	
1015	—	"	8.7	7.03	2.80	0.25	6.26	-70.9	
1020	—	"	8.7	6.99	3.01	0.37	4.71	-73.4	
1025	—	"	8.7	6.95	3.38	0.57	4.62	-73.0	
1030	—	"	8.4	6.93	3.64	0.66	3.26	-70.8	
1035	—	"	8.5	6.94	3.52	0.64	4.01	-68.1	
1040	—								

Extra Parameters:

CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 4.25 mg/L

Comments:

SAMPLE TIME - 1150

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: OW-306
 Field Crew: NM/SM

Date: 4/11/13
 Start Time: 1140
 Finished Time: 1240
 Sample Time: 1245

Initial Depth to Water: 3.11
 Well Depth: 13.32
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 13.00
 Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1140	—	500mL	7.3	7.16	13.54	8.00	92.4	171.4	
1145	—	"	7.8	7.20	12.95	7.51	26.2	164.3	
1150	—	"	6.9	7.24	12.37	8.22	25.6	163.1	
1155	—	"	7.1	7.28	11.68	8.24	29.5	163.8	
1200	—	"	7.4	7.31	11.09	8.13	31.6	170.9	
1205	—	"	7.5	7.33	10.61	8.22	37.9	176.8	
1210	—	"	7.1	7.35	10.36	8.25	42.4	183.3	
1215	—	"	7.3	7.36	10.12	8.35	39.7	187.0	
1220	—	"	7.2	7.37	10.02	8.20	37.9	188.1	
1225	—	"	7.2	7.38	9.88	8.38	40.3	190.8	
1230	—	"	7.3	7.39	9.73	8.39	42.1	195.6	
1235	—	"	7.0	7.40	9.63	8.47	41.9	200.0	
1240	—	"	7.3	7.40	9.52	8.26	43.0	202.2	

Extra Parameters:

CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Sample Time - 1245

Coopervision
Water Sampling Event

~~Apr 12~~
OCT 3, 2013

Well ID	Previous DTW	Depth To Water (TOR)	Depth to Bottom	PID Reading
MW-1	BLOCKED @ 2.5 FT	6.42	15.11	0.0
MW-2	5.82	6.72	11.38	0.0
MW-3	3.88	4.51	9.82	0.0
MW-201	2.34	7.03	19.51	0.0
MW-202	15.89	6.96	18.91	0.0
MW-203	6.72	3.83	19.49	0.0
MW-204	5.48	6.64	19.12	0.4
MW-205	3.39	4.32	27.61	1.3
OW-304	3.28	4.32	13.64	0.0
MW-401	4.55	5.70	46.05	0.0
MW-402	3.75	4.63	43.24	0.0
MW-403	4.97	3.68	44.01	0.0
MW-501	4.47	5.08	10.31	0.4
MW-502	5.07	5.62	32.72	0.0
OWD-302 S	2.68	3.47	21.83	0.0
OWD-302D	5.02	3.83	32.61	0.0
OWS-302	4.7	4.58	14.79	0.5
OWS-303S	5.33	5.91	13.27	0.0
OWS-303D	5.01	5.37	25.27	0.0
OW-306	3.13	4.02	13.34	0.0

Needs new top

Needs new j plug
56 FT BTM, needs J-plug

Soft BTM

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-3
 Field Crew: SM/NM

Date: 10/3/13
 Start Time: 0835
 Finished Time:
 Sample Time: 1100

Initial Depth to Water: 4.51
 Well Depth: 9.82
 Depth to top of screen:
 Depth to bottom of screen:
 Depth of Pump Intake:

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0835	=	=	17.2	8.22	1.88	3.87	1591	-72.1	
0840	=	=	19.3	7.65	1.93	2.18	9999	-94.4	
WELL	GAGES		DRY						

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: DU-306
 Field Crew: NM/SM

Date: 10/2/13
 Start Time: 1615
 Finished Time: 1650
 Sample Time: 1655

Initial Depth to Water: 4.02'
 Well Depth: 13.34
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0		120ml/min	23.1	7.02	12.40	1.59	9999	103.2	
5		"	22.4	7.14	8.50	2.27	2536	96.5	
10		"	22.3	7.25	5.37	2.95	1603	95.2	
15		"	22.2	7.26	4.75	3.07	1685	97.7	
20		"	22.3	7.25	4.55	2.92	2443	107.3	
25		"	22.3	7.26	4.44	3.09	2713	104.3	
30		"	22.2	7.27	4.35	3.21	2881	106.2	
35		"	22.1	7.28	4.28	3.23	2834	108.6	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron mg/L 0.0

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-203
 Field Crew: SM/NM

Date: 10/2/13
 Start Time: 0900
 Finished Time: 1000
 Sample Time: 1005

Initial Depth to Water: 3.83
 Well Depth: 19.49
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0900	—	—	19.3	8.06	0.77	0.67	41.23	2.2	
0905	—	—	19.6	7.95	0.64	0.26	13.45	-18.8	
0910	—	—	19.5	7.92	0.66	0.34	12.71	-18.3	
0915	—	—	19.5	7.91	0.56	0.47	11.24	-12.8	
0920	—	—	19.3	7.90	0.55	0.58	9.69	-5.2	
0925	—	—	19.4	7.89	0.60	0.70	8.16	3.8	
0930	—	—	19.4	7.88	0.53	0.59	7.22	9.4	
0935	—	—	19.4	7.88	0.52	0.90	6.95	15.6	
0940	—	—	19.7	7.88	0.52	1.09	10.62	21.5	
0945	—	—	19.8	7.87	0.53	1.23	11.78	25.2	
0950	—	—	19.7	7.88	0.59	1.29	6.84	27.8	
1000	—	—	19.8	7.87	0.54	1.35	5.59	29.8	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-202
 Field Crew: SM/NM

Date: 10/3/13
 Start Time: 1025
 Finished Time: 1055
 Sample Time: 1105

Initial Depth to Water: 6.96
 Well Depth: 18.91
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1025	—	—	19.9	7.78	5.58	3.31	85	72.8	
1030	—	—	19.5	7.72	6.12	1.24	38.9	55.3	
1035	—	—	19.3	7.70	5.40	0.79	21.3	46.2	
1040	—	—	19.4	7.69	5.34	0.60	17.7	40.6	
1045	—	—	19.6	7.65	5.93	0.62	12.43	38.7	
1050	—	—	19.6	7.67	5.89	0.58	11.68	36.8	
1055	—	—	19.8	7.67	5.86	0.64	11.20	36.8	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 7066S-018
 Well ID: MW-204
 Field Crew: SM/NM

Date: 10/3/12
 Start Time: 1140
 Finished Time: 1240
 Sample Time: 1245

Initial Depth to Water: 6.64 Purging Device: Waterra
 Well Depth: 19.12 Tubing in well: No
 Depth to top of screen: _____ Tubing Type: PVC
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1140	—	—	21.9	7.26	2.99	1.94	10.67	111.3	
1145	—	—	21.0	7.25	2.90	0.20	8.52	96.3	
1150	—	—	21.1	7.20	2.89	0.14	6.76	83.5	
1155	—	—	21.2	7.19	2.89	0.12	6.50	71.0	
1200	—	—	21.4	7.20	2.90	0.10	6.38	62.8	
1205	—	—	21.5	7.21	2.90	0.10	6.06	57.9	
1210	—	—	21.7	7.23	2.91	0.10	5.29	51.6	
1215	—	—	21.3	7.18	2.87	0.12	4.86	29.0	
1220	—	—	21.3	7.21	2.88	0.15	4.51	23.5	
1225	—	—	21.0	7.20	2.86	0.17	3.90	16.7	
1230	—	—	21.3	7.21	2.87	0.22	2.74	5.4	
1235	—	—	21.5	7.21	2.88	0.25	1.69	-2.8	
1240	—	—	21.2	7.22	2.86	0.28	1.10	-7.3	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-502
 Field Crew: SM/JM

Date: 10/3/13
 Start Time: 1310
 Finished Time: 1340
 Sample Time: 1345

Initial Depth to Water: 5.62
 Well Depth: 32.72
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1310	—	—	20.9	6.88	3.97	1.13	26.6	-129.7	
1315	—	—	21.1	6.85	3.65	0.18	21.8	-135.9	
1320	—	—	20.8	6.84	3.62	0.10	30.7	-139.4	
1325	—	—	21.0	6.86	3.62	0.09	34.8	-140.3	
1330	—	—	21.1	6.86	3.64	0.08	33.7	-141.3	
1335	—	—	21.2	6.86	3.65	0.07	33.0	-142.7	
1340	—	—	21.3	6.88	3.67	0.07	32.0	-143.6	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 6.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018

Date: 10/3/13

Initial Depth to Water: 5.08

Purging Device: Waterra

Well ID: MW-501

Start Time: 1415

Well Depth: 10.31

Tubing in well: No

Field Crew: SM/CM

Finished Time: 1445

Depth to top of screen: _____

Tubing Type: PVC

Sample Time: 1530

Depth to bottom of screen: _____

Depth of Pump Intake: _____

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1415	—	—	23.5	6.41	6.42	0.65	27.9	-133.7	
1420	—	—	23.0	7.06	6.52	0.10	20.1	-146.5	
1425	—	—	23.2	7.04	6.26	0.74	61.6	-146.3	
1430	—	—	23.4	7.04	6.29	1.24	58.4	-143.0	
1435	—	—	23.5	6.97	6.28	2.00	55.0	-134.1	
1440	—	—	WE	LL	GO	ES	DRY		
1445	—	—							

Extra Parameters:

CO₂ mg/L

Alkalinity mg/L

Ferrous Iron 6.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: OW-302S
 Field Crew: SM/NM

Date: 10/3/13
 Start Time: 1500
 Finished Time: 1530
 Sample Time: 1540

Initial Depth to Water: 4.58
 Well Depth: 14.79
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1500	—	—	22.5	6.79	8.83	1.36	29.6	-123.1	
1505	—	—	21.8	6.69	8.86	0.13	12.4	-125.6	
1510	—	—	22.1	6.71	8.80	0.07	11.06	-133.6	
1515	—	—	22.2	6.71	8.79	0.07	9.52	-134.6	
1520	—	—	22.3	6.71	8.77	0.06	6.50	-137.0	
1525	—	—	21.3	6.73	8.52	0.08	7.02	-131.7	
1530	—	—	21.4	6.73	8.50	0.08	6.49	-136.3	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 7.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-205
 Field Crew: SM/NM

Date: 10/3/13
 Start Time: 1605
 Finished Time: 1635
 Sample Time: 1640

Initial Depth to Water: 4.32
 Well Depth: 27.61
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: _____

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: PVC

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1605	—	—	19.3	6.03	6.82	0.35	8.30	-62.1	
1610	—	—	19.3	6.01	6.84	0.18	7.41	-68.3	
1615	—	—	19.4	6.03	6.82	0.12	6.26	-73.6	
1620	—	—	19.4	6.03	6.82	0.11	6.00	-76.3	
1625	—	—	19.5	6.02	6.85	0.12	5.52	-78.2	
1630	—	—	19.5	6.01	6.85	0.11	5.14	-80.0	
1635	—	—	19.5	6.03	6.86	0.12	5.09	-80.7	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 6.5 mg/L

Comments:

Coopervision

Water Sampling Event

NM/JB
4/1/14

Apr-14

APR 2014

Well ID	Previous DTW Oct-13	Depth To Water (TOR)	Previous DTB Oct-13	Depth to Bottom	PID Reading
MW-1	3.74	3.94	15.11	15.01	0.0
MW-2	6.72	4.95	11.38	11.36	0.0
MW-3	4.51	3.69	9.82	9.80	0.0
MW-201	7.03	2.25	19.51	19.48	0.1
MW-202	6.96	5.50	18.91	18.90	0.9
MW-203	3.83	2.88	19.49	19.45	0.0
MW-204	6.64	4.90	19.12	19.20	2.1
MW-205	4.32	3.44	27.61	27.60	0.1
OW-304	4.32	2.50	13.64	13.63	0.0
MW-401	5.70	5.91	46.05	46.05	0.0
MW-402	4.63	2.82	43.24	43.25	0.0
MW-403	3.68	3.30	44.00	43.98	0.3
MW-501	5.08	3.32	10.31	10.32	3.1
MW-502	5.62	3.74	32.72	32.77	0.0
OWD-302 S	3.47	0.67	21.83	21.82	1.0
OWD-302D	3.83	3.21	32.61	32.60	0.6
OWS-302	4.58	2.38	14.79	14.81	0.4
OWS-303S	5.91	5.22	13.27	13.26	0.0
OWS-303D	5.37	4.99	25.27	25.26	0.0
OW-306	4.02	2.46	13.34	13.36	0.0
BAP-1		5.59		20.16	12.5
BAP-2		5.30		19.52	7.9

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: RAP-1 *uphill*
 Field Crew: NM/TB

Date: 4/2/14
 Start Time: 1705
 Finished Time: 1730
 Sample Time: 1735

Initial Depth to Water: 5.6
 Well Depth: 20.1
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 14.0

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1705		100ml/min	11.4	7.36	2.38	3.14	-52	-151.2	
1710		150ml/min	10.8	7.33	2.33	1.93	-57	-164.7	
1715		11	10.7	7.26	2.30	1.30	10.10	-169.8	
1720		11	10.7	7.27	2.27	1.02	9.95	-175.4	
1725		11	10.8	7.28	2.23	0.74	7.87	-183.3	
1730		11	10.9	7.26	2.22	0.67	7.00	-186.2	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Sample Time 1735

Low-Flow Field Sampling Form
 Location (Site/Facility Name):

Coopervision

Job Number:
 Well ID:
 Field Crew:

70665-018
 BAP-2 DAWN HILL
 AIMP/B

Date: 2 APR 2014
 Start Time: 1745
 Finished Time: 1840
 Sample Time: 1858

Initial Depth to Water: 5.3
 Well Depth: 1915
 Depth to top of screen:
 Depth to bottom of screen:
 Depth of Pump Intake: 14.0

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1250		100 gal/min	11.3	7.22	2.17	0.30	X	-177.7	
1755									Purging dry
1815									- appears valve was not working
1825									
1835		100 gal/min	16.0	7.33	1.14	0.04	XX	-204.7	Purged dry well vol removed
1840		100 gal/min	9.8	7.27	2.08	-	0	-210.5	
1845									purged dry 3 volumes removed

Extra Parameters:

CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron NA mg/L

Comments:

X 3048 AU-?? sample time 1850
 X+ 1504 AU TO TURBID TO measure Fe

Low-Flow Field Sampling Form

Location (Site/Facility Name): **Coopervision**

Job Number: 70665-018
 Well ID: MW-3
 Field Crew: NM JB

Date: 4/1/14
 Start Time: 1300
 Finished Time: 1325
 Sample Time: 1330

Initial Depth to Water: 3.7
 Well Depth: 9.8
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 9.0

Purging Device: Wattera
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1305	3.70	100 mL/MIN	11	7.2	1.94	1.90	111	73.6	Well purged dry
1315		well goes dry							Well purged dry
1320									Well purged dry

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 0.5 mg/L

Comments: sample taken at 1330

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: M61-202
 Field Crew: NM/JB

Date: 4/1/14
 Start Time: 1600
 Finished Time: 1650
 Sample Time: 1655

Initial Depth to Water: 5.5
 Well Depth: 18.9
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 17.5

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1600		150ml/min	9.8	7.33	11.47	3.84	15.3	282.0	
1605		150ml/min	9.4	7.45	11.79	2.24	11.35	254.6	
1610		150ml/min	9.5	7.50	11.81	1.78	12.37	220.1	
1615		"	10.0	7.56	11.79	1.45	12.5	195.1	
1620		"	9.4	7.53	11.81	1.36	11.2	179.6	
1625		"	9.5	7.52	11.82	1.31	11.02	167.7	
1630		"	9.7	7.54	11.85	1.28	11.93	142.7	↑ YSI Timed out shut down
1635		"	9.7	7.52	11.86	1.34	11.95	169.1	
1640		"	9.5	7.50	11.98	1.35	11.97	166.9	
1645		"	9.8	7.5	12.00	1.28	11.99	160.8	
1650		"	9.9	7.5	12.02	1.26	12.00	153.2	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-203
 Field Crew: AMA/JB

Date: 4/11/14
 Start Time: 1515
 Finished Time: 1535
 Sample Time: 1540

Initial Depth to Water: 21.9
 Well Depth: 19.4
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 18.5

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
<u>1515</u>	<u>-</u>	<u>150 (Cumulative)</u>	<u>7.6</u>	<u>8.31</u>	<u>1.37</u>	<u>6.10</u>	<u>11.57</u>	<u>180.4</u>	
<u>1520</u>		<u>11</u>	<u>9.6</u>	<u>8.14</u>	<u>0.83</u>	<u>3.68</u>	<u>6.97</u>	<u>171.1</u>	
<u>1525</u>		<u>11</u>	<u>9.5</u>	<u>8.00</u>	<u>0.667</u>	<u>3.52</u>	<u>7.45</u>	<u>159.7</u>	
<u>1530</u>		<u>11</u>	<u>9.5</u>	<u>7.95</u>	<u>0.610</u>	<u>3.41</u>	<u>16.66</u>	<u>153.5</u>	
<u>1535</u>		<u>11</u>	<u>9.4</u>	<u>7.96</u>	<u>0.604</u>	<u>3.38</u>	<u>20.3</u>	<u>151.3</u>	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 0.0 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-205
 Field Crew: NM 15B

Date: 4/2/14
 Start Time: 1540
 Finished Time: 1550
 Sample Time: 1555

Initial Depth to Water: 3.5
 Well Depth: 27.6
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 26

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1540		150ml/min	12.1	6.35	0.476	5.92	4.32	30.4	
1545		11	12.1	6.34	0.521	5.90	4.20	38.1	
1550		11	12.2	6.28	0.387	5.73	4.20	40.8	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 4.5 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: CWS-302
 Field Crew: NM/TB

Date: 4/2/14
 Start Time: 1440
 Finished Time: 1505
 Sample Time: 1510

Initial Depth to Water: 2.35
 Well Depth: 14.80
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 14.0

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1440 To		120ml/min	9.3	7.22	9.30	0.18	41.6	3.2	
1445		120ml/min	9.6	7.09	9.27	0.02	36.3	-18.2	
1450		120ml/min	9.7	7.34	9.24	0.07	38.3	-20.0	
1455		120ml/min	9.9	7.13	9.26	0.11	39.7	-24.8	
1500		120ml/min	9.9	7.07	9.26	0.02	33.4	-27.7	
1505		120ml/min	10.0	7.07	9.27	-	42.7	-27.0	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 315 mg/L

Comments: _____

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: OW 306
 Field Crew: NM/JSB

Date: 4/16/14
 Start Time: 1415
 Finished Time: 1435
 Sample Time: 1440

Initial Depth to Water: 2.45
 Well Depth: 13.36
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 13.00

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1415	—	100ml/min	10.4	7.43	18.92	20.27	61.5	237.7	
1420	—	"	7.4	7.37	18.71	9.15	48.7	208.5	
1425		"	7.4	7.37	18.57	9.32	61.7	194.6	
1430		"	7.6	7.36	18.50	9.34	65.7	140.8	
1435			7.5	7.32	18.41	9.44	75.6	185.3	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron mg/L

Comments:
 sample at 1440

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-501
 Field Crew: NM/JRS

Date: 2 APR 2014
 Start Time: 1325
 Finished Time: 1405
 Sample Time: 1418

Initial Depth to Water: 3.3
 Well Depth: 10.32
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 9.8

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1330		150 mL/hr	10.2	7.06	19.78	1.32	87.5	180.1	
1335		"	11.1	7.36	19.84	4.08	43.2	160.1	
1340		"	8.9	7.28	19.94	0.62	44.7	23.1	
1345		"	9.3	7.29	19.99	0.58	45.8	-6.4	
1350		"	10.0	7.29	19.98	1.26	41.2	-25.1	
1355		"	10.4	7.27	20.03	0.85	41.2	-34.0	
1400			10.2	7.26	19.98	0.78	45.6	-43.9	
1405			10.8	7.24	19.92	0.79	42.3	-48.2	

Extra Parameters:
 CO₂ _____ mg/L
 Alkalinity _____ mg/L
 Ferrous Iron 3.5 mg/L

Comments:

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-502
 Field Crew: NM/JB

Date: 4/2/14
 Start Time: _____
 Finished Time: _____
 Sample Time: 1145

Initial Depth to Water: 3.8
 Well Depth: 32.77
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 31.5

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
1020 (A)			12.4	5.75	3.37	3.40		27.8	PH value suspect
112						1.7			Attempt to calibrate
1120 (T ₀)		150ml/min	14.3	6.36	3.98	1.71		-38.4	7.0 pH Buffer reads 5.3
1125 5		"	14.5	5.41	3.83	1.56	19.0	-45.6	
1130 10		"	14.8	5.42	3.83	---	46.0	-44.0	Meter replaced
1135 15			14.9	5.37	3.88	---	25.0	-42.0	AFTER well MW-502
1140 20			15.1	5.46	3.87	---	71.0	-42.7	

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron mg/L

Comments:
To Turbid to determine Fe

Low-Flow Field Sampling Form

Location (Site/Facility Name): Coopervision

Job Number: 70665-018
 Well ID: MW-204
 Field Crew: NM/JSB

Date: 4/2/14
 Start Time: 0910
 Finished Time: 0945
 Sample Time: 0950
 Initial Depth to Water: 4.71
 Well Depth: 19.20
 Depth to top of screen: _____
 Depth to bottom of screen: _____
 Depth of Pump Intake: 18.5

Purging Device: Waterra
 Tubing in well: No
 Tubing Type: HDPE

Time Elapsed (Minutes)	Depth to Water (TOR)	Cumulative Purge Volume (gallons)	Temperature (celsius)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0916	4.71	120nd/mw	7.4	7.49	4.18	4.83	-	168.5	PH flux between 5.89 10
0915		"	7.5	6.75	4.22	2.85	5.62	260.3	
0920		"	7.4	6.90	4.22	2.30	7.74	243.6	meter tripped out (at 9:33) restart
0925		"	7.5	6.81	4.22	1.90	7.71	245.1	
0930		"	7.1	6.66	4.22	1.31	7.92	245.8	
0935		"	7.7	6.00	4.20	1.21	8.19	245.1	
0940		"	7.7	6.00	4.20	1.20	8.77	335.6	
0945		"	7.7	5.98	4.20	1.10	8.02	334.3	

only 30SCL meter, restart

Extra Parameters:
 CO₂ mg/L
 Alkalinity mg/L
 Ferrous Iron 0.0 mg/L

Comments: SAMPLE: 0950

APPENDIX F

Laboratory Data Packages



April 29, 2013

Service Request No: R1302496

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision April 2013/70665-001

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on April 12, 2013. For your reference, these analyses have been assigned our service request number **R1302496**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 61

Client: Haley & Aldrich of New York
Project: Coopervision #70665-018 4/13
Sample Matrix: Water

Service Request No.: R1302496
Date Received: 4/12/13

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Nine (9) water samples and one (1) Trip Blank were collected on 4/11-12/13 by H&A and received for analysis at ALS on 4/12/13. The samples were received unbroken and consistent with the accompanying chain of custody form. The cooler temperatures upon receipt at the laboratory were 7.3 and 8.8°C outside the guidelines of 0-6°C. The client was notified via a sample confirmation email. All samples were received on ice. Four of the wells had been sampled the same day as received at the lab.

General Chemistry Parameters & Metals

Five (5) water samples were analyzed for a client specific list of Anion and Cation parameters: Chloride, Sulfate, Total Alkalinity, Nitrate, Nitrite, and Sulfide.

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for all analyses.

All holding times were initially met for these analyses. The Nitrite analyses for samples MW-3, M-502, OW-302S, MW-501 and MW-1 (R1302496-001, 006 -009) were repeated outside of the 48 hour holding time due to interferences with the Chloride peak on the initial run. The samples were reanalyzed at a dilution to overcome the interference. The initial re-analysis run was set up on the same day, however a power surge interrupted the overnight run which delayed the analysis to outside of 48 hrs. The data has been flagged as "*" for these samples.

Batch QC is included in the report. All Laboratory Control Sample (LCS) recoveries were within QC limits.

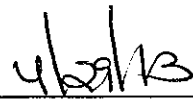
All Laboratory Method Blanks were free from contamination except for Chloride on the 4/15/13. Any affected data will be flagged as "B".

No problems were encountered during the analysis of these samples.

Approved by



Date



Organic Compounds

Nine (9) water samples were analyzed for the TCL of Volatile Organics by GC/MS Method 8260C from SW-846. Five (5) water samples were analyzed for Dissolved Gases by modified GC Method RSK-175. One (1) water was analyzed for Metabolic Acids by HPLC methodology. The Trip Blank was analyzed for Volatile Organics only.

All Initial and Continuing Calibration Criteria was met for these samples except for %D for Acetone which was outside the $\pm 20\%$ at -21.2% on the 4/18/13 analytical run. Hits for this compound on samples associated with this CCV should be considered as estimated.

Batch QC is included in the report. All Laboratory Control Samples (LCS), Laboratory Control Sample Duplicate (LCSD) recoveries were within acceptance limits except for Tetrachloroethene on the 4/17/13 LCS. The recovery has been flagged as "**". No data is affected. The Relative Percent Difference (RPD) calculations for the Organic Acids were within QC acceptance limits.

Hits above the calibration range of the standards are flagged as "E" estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent dilution hits are flagged as "D".

All surrogate recoveries were within acceptance limits.

All samples were analyzed within the appropriate holding times. All vials are checked for preservation after analysis. All VOC and RSK samples were found to be preserved to a pH of < 2 or the samples were analyzed within 7 days from collection for unpreserved aliquots. All ALS vials are certified as preserved.

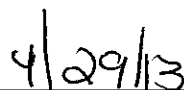
The Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by



Date



CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1302496

<u>Lab ID</u>	<u>Client ID</u>
R1302496-001	MW-3
R1302496-002	OW-306
R1302496-003	MW-203
R1302496-004	MW-202
R1302496-005	MW-204
R1302496-006	MW-502
R1302496-007	OW-302S
R1302496-008	MW-501
R1302496-009	MW-1
R1302496-010	TRIP BLANK

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications¹

NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx>

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1302496-001

Service Request: R1302496
Date Collected: 4/11/13 1310
Date Received: 4/12/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	192	mg/L	2.0	1	NA	4/22/13 08:00	
Chloride	9056A	633	mg/L	20	100	NA	4/15/13 11:28	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	4/12/13 18:24	
Nitrite as Nitrogen	9056A	10 U	mg/L	10	100	NA	4/15/13 11:28	*
Sulfate	9056A	6.9	mg/L	2.0	10	NA	4/12/13 18:24	
Sulfide, Acid-Soluble	9034	1.1	mg/L	1.0	1	4/17/13	4/17/13 09:55	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1310
 Date Received: 4/12/13
 Date Analyzed: 4/18/13 23:58

Sample Name: MW-3
 Lab Code: R1302496-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa12\Data\041813\T5786.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50	U	50	
71-43-2	Benzene	25	U	25	
75-27-4	Bromodichloromethane	25	U	25	
75-25-2	Bromoform	25	U	25	
74-83-9	Bromomethane	25	U	25	
78-93-3	2-Butanone (MEK)	50	U	50	
75-15-0	Carbon Disulfide	50	U	50	
56-23-5	Carbon Tetrachloride	25	U	25	
108-90-7	Chlorobenzene	25	U	25	
75-00-3	Chloroethane	940		25	
67-66-3	Chloroform	25	U	25	
74-87-3	Chloromethane	25	U	25	
124-48-1	Dibromochloromethane	25	U	25	
75-34-3	1,1-Dichloroethane	77		25	
107-06-2	1,2-Dichloroethane	25	U	25	
75-35-4	1,1-Dichloroethene	25	U	25	
156-59-2	cis-1,2-Dichloroethene	25	U	25	
156-60-5	trans-1,2-Dichloroethene	25	U	25	
78-87-5	1,2-Dichloropropane	25	U	25	
10061-01-5	cis-1,3-Dichloropropene	25	U	25	
10061-02-6	trans-1,3-Dichloropropene	25	U	25	
100-41-4	Ethylbenzene	25	U	25	
591-78-6	2-Hexanone	50	U	50	
75-09-2	Methylene Chloride	25	U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	
100-42-5	Styrene	25	U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	
127-18-4	Tetrachloroethene	25	U	25	
108-88-3	Toluene	25	U	25	
71-55-6	1,1,1-Trichloroethane	25	U	25	
79-00-5	1,1,2-Trichloroethane	25	U	25	
79-01-6	Trichloroethene	25	U	25	
75-01-4	Vinyl Chloride	150		25	
95-47-6	o-Xylene	25	U	25	
179601-23-1	m,p-Xylenes	25	U	25	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1310
 Date Received: 4/12/13
 Date Analyzed: 4/18/13 23:58

Sample Name: MW-3
 Lab Code: R1302496-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5786.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	93	85-122	4/18/13 23:58	
	Toluene-d8	97	87-121	4/18/13 23:58	
	Dibromofluoromethane	100	89-119	4/18/13 23:58	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/11/13 1310
Date Received: 4/12/13
Date Analyzed: 4/23/13 11:46

Sample Name: MW-3
Lab Code: R1302496-001

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1004.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 25

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	25	U	25	
74-85-1	Ethylene	48		25	
74-82-8	Methane	1700		25	
74-98-6	Propane	25	U	25	



ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1245
 Date Received: 4/12/13
 Date Analyzed: 4/17/13 20:22

Sample Name: OW-306
 Lab Code: R1302496-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvov12\Data\041713\T5750.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1245
 Date Received: 4/12/13
 Date Analyzed: 4/17/13 20:22

Sample Name: OW-306
 Lab Code: R1302496-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041713\TS750.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	98	85-122	4/17/13 20:22	
	Toluene-d8	100	87-121	4/17/13 20:22	
	Dibromofluoromethane	102	89-119	4/17/13 20:22	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1435
 Date Received: 4/12/13
 Date Analyzed: 4/17/13 20:54

Sample Name: MW-203
 Lab Code: R1302496-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa12\Data\041713\T5751.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/11/13 1435
Date Received: 4/12/13
Date Analyzed: 4/17/13 20:54

Sample Name: MW-203
Lab Code: R1302496-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUATA\msvoa12\Data\041713\T5751.D\

Analysis Lot: 336783
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	96	85-122	4/17/13 20:54	
	Toluene-d8	98	87-121	4/17/13 20:54	
	Dibromofluoromethane	102	89-119	4/17/13 20:54	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1615
 Date Received: 4/12/13
 Date Analyzed: 4/17/13 21:26

Sample Name: MW-202
 Lab Code: R1302496-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa12\Data\041713\T5752.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	34		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	32		5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/11/13 1615
Date Received: 4/12/13
Date Analyzed: 4/17/13 21:26

Sample Name: MW-202
Lab Code: R1302496-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa12\Data\041713\T5752.D\

Analysis Lot: 336783
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	97	85-122	4/17/13 21:26	
	Toluene-d8	99	87-121	4/17/13 21:26	
	Dibromofluoromethane	100	89-119	4/17/13 21:26	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/11/13 1710
 Date Received: 4/12/13
 Date Analyzed: 4/17/13 21:57

Sample Name: MW-204
 Lab Code: R1302496-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa12\Data\041713\T5753.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	7.4		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	9.2		5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/11/13 1710
Date Received: 4/12/13
Date Analyzed: 4/17/13 21:57

Sample Name: MW-204
Lab Code: R1302496-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa12\Data\041713\T5753.D\

Analysis Lot: 336783
Instrument Name: R-MS-12
Dilution Factor: 1

Table with 5 columns: CAS No., Analyte Name, Result Q, MRL, Note. Includes a sub-table for Surrogate Name with columns %Rec, Control Limits, Date Analyzed, and Q. Data rows include 4-Bromofluorobenzene, Toluene-d8, and Dibromofluoromethane.

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1302496-006

Service Request: R1302496
Date Collected: 4/12/13 0920
Date Received: 4/12/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	510		mg/L	2.0	1	NA	4/22/13 08:00	
Chloride	9056A	862		mg/L	40	200	NA	4/15/13 11:10	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/12/13 18:06	
Nitrite as Nitrogen	9056A	20	U	mg/L	20	200	NA	4/15/13 11:10	*
Sulfate	9056A	2.0	U	mg/L	2.0	10	NA	4/12/13 18:06	
Sulfide, Acid-Soluble	9034	1.4		mg/L	1.0	1	4/17/13	4/17/13 09:55	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 0920
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 02:04

Sample Name: MW-502
 Lab Code: R1302496-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5790.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	250 U	250	
71-43-2	Benzene	130 U	130	
75-27-4	Bromodichloromethane	130 U	130	
75-25-2	Bromoform	130 U	130	
74-83-9	Bromomethane	130 U	130	
78-93-3	2-Butanone (MEK)	250 U	250	
75-15-0	Carbon Disulfide	250 U	250	
56-23-5	Carbon Tetrachloride	130 U	130	
108-90-7	Chlorobenzene	130 U	130	
75-00-3	Chloroethane	4900	130	
67-66-3	Chloroform	130 U	130	
74-87-3	Chloromethane	130 U	130	
124-48-1	Dibromochloromethane	130 U	130	
75-34-3	1,1-Dichloroethane	130 U	130	
107-06-2	1,2-Dichloroethane	130 U	130	
75-35-4	1,1-Dichloroethene	130 U	130	
156-59-2	cis-1,2-Dichloroethene	130 U	130	
156-60-5	trans-1,2-Dichloroethene	130 U	130	
78-87-5	1,2-Dichloropropane	130 U	130	
10061-01-5	cis-1,3-Dichloropropene	130 U	130	
10061-02-6	trans-1,3-Dichloropropene	130 U	130	
100-41-4	Ethylbenzene	130 U	130	
591-78-6	2-Hexanone	250 U	250	
75-09-2	Methylene Chloride	130 U	130	
108-10-1	4-Methyl-2-pentanone (MIBK)	250 U	250	
100-42-5	Styrene	130 U	130	
79-34-5	1,1,2,2-Tetrachloroethane	130 U	130	
127-18-4	Tetrachloroethene	130 U	130	
108-88-3	Toluene	130 U	130	
71-55-6	1,1,1-Trichloroethane	130 U	130	
79-00-5	1,1,2-Trichloroethane	130 U	130	
79-01-6	Trichloroethene	130 U	130	
75-01-4	Vinyl Chloride	280	130	
95-47-6	o-Xylene	130 U	130	
179601-23-1	m,p-Xylenes	130 U	130	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 0920
Date Received: 4/12/13
Date Analyzed: 4/19/13 02:04

Sample Name: MW-502
Lab Code: R1302496-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa12\Data\041813\T5790.D\

Analysis Lot: 337004
Instrument Name: R-MS-12
Dilution Factor: 25

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	94	85-122	4/19/13 02:04	
	Toluene-d8	99	87-121	4/19/13 02:04	
	Dibromofluoromethane	102	89-119	4/19/13 02:04	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 0920
Date Received: 4/12/13
Date Analyzed: 4/23/13 12:07

Sample Name: MW-502
Lab Code: R1302496-006

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1006.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 125

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	130	U	130	
74-85-1	Ethylene	130	U	130	
74-82-8	Methane	8800		130	
74-98-6	Propane	130	U	130	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water
 Sample Name: OW-302S
 Lab Code: R1302496-007

Service Request: R1302496
 Date Collected: 4/12/13 1150
 Date Received: 4/12/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	676	mg/L	2.0	1	NA	4/22/13 08:00	
Chloride	9056A	2630	mg/L	100	500	NA	4/15/13 11:22	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	4/12/13 18:18	
Nitrite as Nitrogen	9056A	50 U	mg/L	50	500	NA	4/15/13 11:22	*
Sulfate	9056A	2.0 U	mg/L	2.0	10	NA	4/15/13 13:32	
Sulfide, Acid-Soluble	9034	1.4	mg/L	1.0	1	4/17/13	4/17/13 09:55	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1150
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 01:01

Sample Name: OW-302S
 Lab Code: R1302496-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5788.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	100	U	100	
71-43-2	Benzene	50	U	50	
75-27-4	Bromodichloromethane	50	U	50	
75-25-2	Bromoform	50	U	50	
74-83-9	Bromomethane	50	U	50	
78-93-3	2-Butanone (MEK)	100	U	100	
75-15-0	Carbon Disulfide	100	U	100	
56-23-5	Carbon Tetrachloride	50	U	50	
108-90-7	Chlorobenzene	50	U	50	
75-00-3	Chloroethane	14000	E	50	
67-66-3	Chloroform	50	U	50	
74-87-3	Chloromethane	50	U	50	
124-48-1	Dibromochloromethane	50	U	50	
75-34-3	1,1-Dichloroethane	470		50	
107-06-2	1,2-Dichloroethane	50	U	50	
75-35-4	1,1-Dichloroethene	50	U	50	
156-59-2	cis-1,2-Dichloroethene	50	U	50	
156-60-5	trans-1,2-Dichloroethene	50	U	50	
78-87-5	1,2-Dichloropropane	50	U	50	
10061-01-5	cis-1,3-Dichloropropene	50	U	50	
10061-02-6	trans-1,3-Dichloropropene	50	U	50	
100-41-4	Ethylbenzene	50	U	50	
591-78-6	2-Hexanone	100	U	100	
75-09-2	Methylene Chloride	50	U	50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	
100-42-5	Styrene	50	U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
127-18-4	Tetrachloroethene	50	U	50	
108-88-3	Toluene	50	U	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
79-00-5	1,1,2-Trichloroethane	50	U	50	
79-01-6	Trichloroethene	50	U	50	
75-01-4	Vinyl Chloride	52		50	
95-47-6	o-Xylene	50	U	50	
179601-23-1	m,p-Xylenes	50	U	50	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1150
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 01:01

Sample Name: OW-302S
 Lab Code: R1302496-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041813\T5788.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	93	85-122	4/19/13 01:01	
	Toluene-d8	93	87-121	4/19/13 01:01	
	Dibromofluoromethane	102	89-119	4/19/13 01:01	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1150
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 14:58

Sample Name: OW-302S
 Lab Code: R1302496-007
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa12\Data\041813\T5814.D\

Analysis Lot: 337034
 Instrument Name: R-MS-12
 Dilution Factor: 500

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	5000	U	5000	
71-43-2	Benzene	2500	U	2500	
75-27-4	Bromodichloromethane	2500	U	2500	
75-25-2	Bromoform	2500	U	2500	
74-83-9	Bromomethane	2500	U	2500	
78-93-3	2-Butanone (MEK)	5000	U	5000	
75-15-0	Carbon Disulfide	5000	U	5000	
56-23-5	Carbon Tetrachloride	2500	U	2500	
108-90-7	Chlorobenzene	2500	U	2500	
75-00-3	Chloroethane	45000	D	2500	
67-66-3	Chloroform	2500	U	2500	
74-87-3	Chloromethane	2500	U	2500	
124-48-1	Dibromochloromethane	2500	U	2500	
75-34-3	1,1-Dichloroethane	2500	U	2500	
107-06-2	1,2-Dichloroethane	2500	U	2500	
75-35-4	1,1-Dichloroethene	2500	U	2500	
156-59-2	cis-1,2-Dichloroethene	2500	U	2500	
156-60-5	trans-1,2-Dichloroethene	2500	U	2500	
78-87-5	1,2-Dichloropropane	2500	U	2500	
10061-01-5	cis-1,3-Dichloropropene	2500	U	2500	
10061-02-6	trans-1,3-Dichloropropene	2500	U	2500	
100-41-4	Ethylbenzene	2500	U	2500	
591-78-6	2-Hexanone	5000	U	5000	
75-09-2	Methylene Chloride	2500	U	2500	
108-10-1	4-Methyl-2-pentanone (MIBK)	5000	U	5000	
100-42-5	Styrene	2500	U	2500	
79-34-5	1,1,2,2-Tetrachloroethane	2500	U	2500	
127-18-4	Tetrachloroethene	2500	U	2500	
108-88-3	Toluene	2500	U	2500	
71-55-6	1,1,1-Trichloroethane	2500	U	2500	
79-00-5	1,1,2-Trichloroethane	2500	U	2500	
79-01-6	Trichloroethene	2500	U	2500	
75-01-4	Vinyl Chloride	2500	U	2500	
95-47-6	o-Xylene	2500	U	2500	
179601-23-1	m,p-Xylenes	2500	U	2500	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1150
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 14:58

Sample Name: OW-302S
 Lab Code: R1302496-007
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041813\T5814.D\

Analysis Lot: 337034
 Instrument Name: R-MS-12
 Dilution Factor: 500

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	92	85-122	4/19/13 14:58	
	Toluene-d8	98	87-121	4/19/13 14:58	
	Dibromofluoromethane	98	89-119	4/19/13 14:58	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 1150
Date Received: 4/12/13
Date Analyzed: 4/23/13 12:30

Sample Name: OW-302S
Lab Code: R1302496-007

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1008.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 100

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	100 U	100	
74-85-1	Ethylene	100 U	100	
74-82-8	Methane	6600	100	
74-98-6	Propane	100 U	100	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1302496-008

Service Request: R1302496
Date Collected: 4/12/13 1305
Date Received: 4/12/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	217		mg/L	2.0	1	NA	4/22/13 08:00	
Chloride	9056A	4260		mg/L	200	1000	NA	4/15/13 11:04	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/12/13 18:00	
Nitrite as Nitrogen	9056A	100	U	mg/L	100	1000	NA	4/15/13 11:04	*
Sulfate	9056A	62.4		mg/L	2.0	10	NA	4/12/13 18:00	
Sulfide, Acid-Soluble	9034	1.8		mg/L	1.0	1	4/17/13	4/17/13 09:55	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1305
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 00:29

Sample Name: MW-501
 Lab Code: R1302496-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvov12\Data\041813\T5787.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50	U	50	
71-43-2	Benzene	25	U	25	
75-27-4	Bromodichloromethane	25	U	25	
75-25-2	Bromoform	25	U	25	
74-83-9	Bromomethane	25	U	25	
78-93-3	2-Butanone (MEK)	50	U	50	
75-15-0	Carbon Disulfide	50	U	50	
56-23-5	Carbon Tetrachloride	25	U	25	
108-90-7	Chlorobenzene	25	U	25	
75-00-3	Chloroethane	590		25	
67-66-3	Chloroform	25	U	25	
74-87-3	Chloromethane	25	U	25	
124-48-1	Dibromochloromethane	25	U	25	
75-34-3	1,1-Dichloroethane	76		25	
107-06-2	1,2-Dichloroethane	25	U	25	
75-35-4	1,1-Dichloroethene	25	U	25	
156-59-2	cis-1,2-Dichloroethene	25	U	25	
156-60-5	trans-1,2-Dichloroethene	25	U	25	
78-87-5	1,2-Dichloropropane	25	U	25	
10061-01-5	cis-1,3-Dichloropropene	25	U	25	
10061-02-6	trans-1,3-Dichloropropene	25	U	25	
100-41-4	Ethylbenzene	25	U	25	
591-78-6	2-Hexanone	50	U	50	
75-09-2	Methylene Chloride	25	U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	
100-42-5	Styrene	25	U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	
127-18-4	Tetrachloroethene	25	U	25	
108-88-3	Toluene	25	U	25	
71-55-6	1,1,1-Trichloroethane	25	U	25	
79-00-5	1,1,2-Trichloroethane	25	U	25	
79-01-6	Trichloroethene	25	U	25	
75-01-4	Vinyl Chloride	94		25	
95-47-6	o-Xylene	25	U	25	
179601-23-1	m,p-Xylenes	25	U	25	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1305
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 00:29

Sample Name: MW-501
 Lab Code: R1302496-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041813\T5787.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	93	85-122	4/19/13 00:29	
	Toluene-d8	94	87-121	4/19/13 00:29	
	Dibromofluoromethane	100	89-119	4/19/13 00:29	



ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 1305
Date Received: 4/12/13
Date Analyzed: 4/23/13 12:57

Sample Name: MW-501
Lab Code: R1302496-008

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1009.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 200

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	200	U	200	
74-85-1	Ethylene	200	U	200	
74-82-8	Methane	12000		200	
74-98-6	Propane	200	U	200	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water
Sample Name: MW-1
Lab Code: R1302496-009

Service Request: R1302496
Date Collected: 4/12/13 1430
Date Received: 4/12/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	280	mg/L	2.0	1	NA	4/22/13 08:00	
Chloride	9056A	109	mg/L	4.0	20	NA	4/15/13 11:16	
Nitrate as Nitrogen	9056A	5.1	mg/L	1.0	10	NA	4/12/13 18:12	
Nitrite as Nitrogen	9056A	2.0 U	mg/L	2.0	20	NA	4/15/13 11:16	*
Sulfate	9056A	9.4	mg/L	2.0	10	NA	4/12/13 18:12	
Sulfide, Acid-Soluble	9034	1.4	mg/L	1.0	1	4/17/13	4/17/13 09:55	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1430
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 01:33

Sample Name: MW-1
 Lab Code: R1302496-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5789.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 20

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
71-43-2	Benzene	100	U	100	
75-27-4	Bromodichloromethane	100	U	100	
75-25-2	Bromoform	100	U	100	
74-83-9	Bromomethane	100	U	100	
78-93-3	2-Butanone (MEK)	200	U	200	
75-15-0	Carbon Disulfide	200	U	200	
56-23-5	Carbon Tetrachloride	100	U	100	
108-90-7	Chlorobenzene	100	U	100	
75-00-3	Chloroethane	2300		100	
67-66-3	Chloroform	100	U	100	
74-87-3	Chloromethane	100	U	100	
124-48-1	Dibromochloromethane	100	U	100	
75-34-3	1,1-Dichloroethane	100	U	100	
107-06-2	1,2-Dichloroethane	100	U	100	
75-35-4	1,1-Dichloroethene	150		100	
156-59-2	cis-1,2-Dichloroethene	100	U	100	
156-60-5	trans-1,2-Dichloroethene	100	U	100	
78-87-5	1,2-Dichloropropane	100	U	100	
10061-01-5	cis-1,3-Dichloropropene	100	U	100	
10061-02-6	trans-1,3-Dichloropropene	100	U	100	
100-41-4	Ethylbenzene	100	U	100	
591-78-6	2-Hexanone	200	U	200	
75-09-2	Methylene Chloride	100	U	100	
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200	
100-42-5	Styrene	100	U	100	
79-34-5	1,1,2,2-Tetrachloroethane	100	U	100	
127-18-4	Tetrachloroethene	100	U	100	
108-88-3	Toluene	100	U	100	
71-55-6	1,1,1-Trichloroethane	100	U	100	
79-00-5	1,1,2-Trichloroethane	100	U	100	
79-01-6	Trichloroethene	100	U	100	
75-01-4	Vinyl Chloride	100	U	100	
95-47-6	o-Xylene	100	U	100	
179601-23-1	m,p-Xylenes	100	U	100	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/12/13 1430
 Date Received: 4/12/13
 Date Analyzed: 4/19/13 01:33

Sample Name: MW-1
 Lab Code: R1302496-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041813\T5789.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 20

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	93	85-122	4/19/13 01:33	
	Toluene-d8	98	87-121	4/19/13 01:33	
	Dibromofluoromethane	101	89-119	4/19/13 01:33	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 1430
Date Received: 4/12/13
Date Analyzed: 4/23/13 13:11

Sample Name: MW-1
Lab Code: R1302496-009

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1010.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	5.1	1.0	
74-85-1	Ethylene	1.0 U	1.0	
74-82-8	Methane	510 E	1.0	
74-98-6	Propane	1.8	1.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 1430
Date Received: 4/12/13
Date Analyzed: 4/23/13 13:45

Sample Name: MW-1
Lab Code: R1302496-009
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1011.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 40

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	40 U	40	
74-85-1	Ethylene	40 U	40	
74-82-8	Methane	2700 D	40	
74-98-6	Propane	40 U	40	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/12/13 1430
Date Received: 4/12/13
Date Analyzed: 4/19/13 13:02

Sample Name: MW-1
Lab Code: R1302496-009

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
Data File Name: I:\ACQU\DATA\HPLC05\DATA\042013\X0009813.D\

Analysis Lot: 337264
Instrument Name: R-HPLC-05
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	0.50 U	0.50	
64-19-7	Acetic Acid	80	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	9.2	2.0	
50-21-5	Lactic Acid	1.0 U	1.0	
79-09-4	Propionic Acid	14	1.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: 4/ 8/13 0745
 Date Received: 4/12/13
 Date Analyzed: 4/17/13 19:51

Sample Name: TRIP BLANK
 Lab Code: R1302496-010

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa12\Data\041713\T5749.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: 4/ 8/13 0745
Date Received: 4/12/13
Date Analyzed: 4/17/13 19:51

Sample Name: TRIP BLANK
Lab Code: R1302496-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa12\Data\041713\T5749.D\

Analysis Lot: 336783
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	96	85-122	4/17/13 19:51	
	Toluene-d8	99	87-121	4/17/13 19:51	
	Dibromofluoromethane	101	89-119	4/17/13 19:51	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1302496-MB1

Service Request: R1302496
 Date Collected: NA
 Date Received: NA
 Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	4/22/13 08:00	
Chloride	9056A	0.28		mg/L	0.20	1	NA	4/15/13 10:53	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/12/13 16:13	
Nitrite as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/15/13 10:53	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	4/12/13 16:13	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/17/13	4/17/13 09:55	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1302496-MB2

Service Request: R1302496
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Sulfate	9056A	0.20 U	mg/L	0.20	1	NA	4/15/13 10:53	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/17/13 16:42

Sample Name: Method Blank
 Lab Code: RQ1303801-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041713\T5743.D\

Analysis Lot: 336783
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: NA
Date Received: NA
Date Analyzed: 4/17/13 16:42

Sample Name: Method Blank
Lab Code: RQ1303801-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa12\Data\041713\T5743.D\

Analysis Lot: 336783
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	98	85-122	4/17/13 16:42	
	Toluene-d8	100	87-121	4/17/13 16:42	
	Dibromofluoromethane	101	89-119	4/17/13 16:42	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/18/13 17:39

Sample Name: Method Blank
 Lab Code: RQ1303887-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5774.D\

Analysis Lot: 337004
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: NA
Date Received: NA
Date Analyzed: 4/18/13 17:39

Sample Name: Method Blank
Lab Code: RQ1303887-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5774.D\

Analysis Lot: 337004
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	92	85-122	4/18/13 17:39	
	Toluene-d8	98	87-121	4/18/13 17:39	
	Dibromofluoromethane	98	89-119	4/18/13 17:39	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/19/13 06:49

Sample Name: Method Blank
 Lab Code: RQ1303893-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa12\Data\041813\T5799.D\

Analysis Lot: 337034
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/19/13 06:49

Sample Name: Method Blank
 Lab Code: RQ1303893-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa12\Data\041813\T5799.D\

Analysis Lot: 337034
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	93	85-122	4/19/13 06:49	
	Toluene-d8	98	87-121	4/19/13 06:49	
	Dibromofluoromethane	98	89-119	4/19/13 06:49	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Collected: NA
Date Received: NA
Date Analyzed: 4/23/13 10:38

Sample Name: Method Blank
Lab Code: RQ1304208-01

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1001.run

Analysis Lot: 337685
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	1.0	U	1.0	
74-85-1	Ethylene	1.0	U	1.0	
74-82-8	Methane	1.0	U	1.0	
74-98-6	Propane	1.0	U	1.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/19/13 09:52

Sample Name: Method Blank
 Lab Code: RQ1303953-01

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQUADATA\HPLC05\DATA\042013\X0009807.D\

Analysis Lot: 337264
 Instrument Name: R-HPLC-05
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	0.50 U	0.50	
64-19-7	Acetic Acid	1.0 U	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0 U	2.0	
50-21-5	Lactic Acid	1.0 U	1.0	
79-09-4	Propionic Acid	1.0 U	1.0	

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Analyzed: 4/12/13 -
 4/22/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Lab Control Sample
 R1302496-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity as CaCO ₃ , Total	SM 2320 B	20.0	20.0	100	83 - 117
Chloride	9056A	1.94	2.00	97	80 - 120
Nitrate as Nitrogen	9056A	0.959	1.00	96	80 - 120
Nitrite as Nitrogen	9056A	0.919	1.0	92	80 - 120
Sulfate	9056A	2.06	2.00	103	80 - 120
Sulfide, Acid-Soluble	9034	7.0	9.6	73	17 - 129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Analyzed: 4/15/13

**Lab Control Sample Summary
General Chemistry Parameters**

Units: mg/L
Basis: NA

Lab Control Sample
R1302496-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfate	9056A	2.10	2.00	105	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Analyzed: 4/17/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 336783

Lab Control Sample
 RQ1303801-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	16.9	20.0	84	64 - 133
Benzene	21.1	20.0	105	78 - 118
Bromodichloromethane	22.2	20.0	111	79 - 123
Bromoform	21.6	20.0	108	69 - 126
Bromomethane	21.3	20.0	106	49 - 124
2-Butanone (MEK)	17.0	20.0	85	60 - 133
Carbon Disulfide	16.6	20.0	83	67 - 138
Carbon Tetrachloride	22.9	20.0	115	64 - 129
Chlorobenzene	22.2	20.0	111	80 - 121
Chloroethane	20.3	20.0	101	72 - 130
Chloroform	20.5	20.0	102	75 - 123
Chloromethane	22.3	20.0	112	55 - 139
Dibromochloromethane	22.5	20.0	113	78 - 127
1,1-Dichloroethane	20.0	20.0	100	76 - 124
1,2-Dichloroethane	22.3	20.0	112	72 - 130
1,1-Dichloroethene	23.7	20.0	118	67 - 119
cis-1,2-Dichloroethene	20.0	20.0	100	77 - 123
trans-1,2-Dichloroethene	20.2	20.0	101	72 - 120
1,2-Dichloropropane	21.1	20.0	105	83 - 119
cis-1,3-Dichloropropene	20.6	20.0	103	77 - 125
trans-1,3-Dichloropropene	20.7	20.0	103	69 - 127
Ethylbenzene	22.3	20.0	111	75 - 123
2-Hexanone	16.9	20.0	85	61 - 131
Methylene Chloride	19.0	20.0	95	73 - 122
4-Methyl-2-pentanone (MIBK)	17.9	20.0	90	61 - 132
Styrene	22.0	20.0	110	80 - 121
1,1,2,2-Tetrachloroethane	18.8	20.0	94	72 - 124
Tetrachloroethene	25.6	20.0	128 *	71 - 127
Toluene	22.3	20.0	111	77 - 120
1,1,1-Trichloroethane	21.2	20.0	106	67 - 121
1,1,2-Trichloroethane	20.5	20.0	103	81 - 117
Trichloroethene	23.9	20.0	120	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Analyzed: 4/17/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 336783

Lab Control Sample
RQ1303801-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	23.7	20.0	118	68 - 139
o-Xylene	22.1	20.0	111	77 - 131
m,p-Xylenes	44.9	40.0	112	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Analyzed: 4/18/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 337004

Lab Control Sample
 RQ1303887-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	16.3	20.0	81	64 - 133
Benzene	19.5	20.0	98	78 - 118
Bromodichloromethane	19.8	20.0	99	79 - 123
Bromoform	19.8	20.0	99	69 - 126
Bromomethane	20.4	20.0	102	49 - 124
2-Butanone (MEK)	17.2	20.0	86	60 - 133
Carbon Disulfide	18.7	20.0	94	67 - 138
Carbon Tetrachloride	20.5	20.0	102	64 - 129
Chlorobenzene	20.3	20.0	102	80 - 121
Chloroethane	20.3	20.0	102	72 - 130
Chloroform	19.3	20.0	97	75 - 123
Chloromethane	22.1	20.0	111	55 - 139
Dibromochloromethane	19.7	20.0	99	78 - 127
1,1-Dichloroethane	19.5	20.0	97	76 - 124
1,2-Dichloroethane	19.6	20.0	98	72 - 130
1,1-Dichloroethene	22.2	20.0	111	67 - 119
cis-1,2-Dichloroethene	18.4	20.0	92	77 - 123
trans-1,2-Dichloroethene	19.1	20.0	96	72 - 120
1,2-Dichloropropane	19.9	20.0	100	83 - 119
cis-1,3-Dichloropropene	18.7	20.0	93	77 - 125
trans-1,3-Dichloropropene	18.9	20.0	94	69 - 127
Ethylbenzene	20.2	20.0	101	75 - 123
2-Hexanone	17.8	20.0	89	61 - 131
Methylene Chloride	18.1	20.0	90	73 - 122
4-Methyl-2-pentanone (MIBK)	18.7	20.0	94	61 - 132
Styrene	20.3	20.0	102	80 - 121
1,1,2,2-Tetrachloroethane	18.1	20.0	90	72 - 124
Tetrachloroethene	22.5	20.0	113	71 - 127
Toluene	20.3	20.0	102	77 - 120
1,1,1-Trichloroethane	19.5	20.0	97	67 - 121
1,1,2-Trichloroethane	17.4	20.0	87	81 - 117
Trichloroethene	21.0	20.0	105	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Analyzed: 4/18/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 337004

Lab Control Sample
RQ1303887-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	23.2	20.0	116	68 - 139
o-Xylene	20.3	20.0	101	77 - 131
m,p-Xylenes	41.9	40.0	105	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Analyzed: 4/19/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 337034

Lab Control Sample
 RQ1303893-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	18.3	20.0	91	64 - 133
Benzene	19.3	20.0	96	78 - 118
Bromodichloromethane	20.0	20.0	100	79 - 123
Bromoform	20.0	20.0	100	69 - 126
Bromomethane	19.9	20.0	100	49 - 124
2-Butanone (MEK)	17.8	20.0	89	60 - 133
Carbon Disulfide	17.2	20.0	86	67 - 138
Carbon Tetrachloride	19.3	20.0	97	64 - 129
Chlorobenzene	20.3	20.0	101	80 - 121
Chloroethane	19.6	20.0	98	72 - 130
Chloroform	18.6	20.0	93	75 - 123
Chloromethane	22.0	20.0	110	55 - 139
Dibromochloromethane	20.2	20.0	101	78 - 127
1,1-Dichloroethane	19.0	20.0	95	76 - 124
1,2-Dichloroethane	19.9	20.0	100	72 - 130
1,1-Dichloroethene	21.6	20.0	108	67 - 119
cis-1,2-Dichloroethene	18.2	20.0	91	77 - 123
trans-1,2-Dichloroethene	18.4	20.0	92	72 - 120
1,2-Dichloropropane	19.8	20.0	99	83 - 119
cis-1,3-Dichloropropene	18.2	20.0	91	77 - 125
trans-1,3-Dichloropropene	18.9	20.0	94	69 - 127
Ethylbenzene	19.7	20.0	98	75 - 123
2-Hexanone	19.1	20.0	96	61 - 131
Methylene Chloride	17.7	20.0	88	73 - 122
4-Methyl-2-pentanone (MIBK)	19.7	20.0	98	61 - 132
Styrene	19.9	20.0	100	80 - 121
1,1,2,2-Tetrachloroethane	17.9	20.0	89	72 - 124
Tetrachloroethene	22.1	20.0	111	71 - 127
Toluene	20.1	20.0	100	77 - 120
1,1,1-Trichloroethane	18.9	20.0	94	67 - 121
1,1,2-Trichloroethane	19.1	20.0	96	81 - 117
Trichloroethene	21.9	20.0	109	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Analyzed: 4/19/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 337034

Lab Control Sample
 RQ1303893-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	22.7	20.0	114	68 - 139
o-Xylene	19.8	20.0	99	77 - 131
m,p-Xylenes	40.4	40.0	101	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision April 2013/70665-001
Sample Matrix: Water

Service Request: R1302496
Date Analyzed: 4/23/13

**Lab Control Sample Summary
 Dissolved Gases by GC/FID**

Analytical Method: RSK 175

Units: µg/L
Basis: NA

Analysis Lot: 337685

**Lab Control Sample
 RQ1304208-02**

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Ethane	24.7	26.1	95	82 - 127
Ethylene	23.7	24.3	98	76 - 119
Methane	24.6	26.2	94	82 - 126
Propane	24.7	25.5	97	76 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision April 2013/70665-001
 Sample Matrix: Water

Service Request: R1302496
 Date Analyzed: 4/19/13

Lab Control Sample Summary
 Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids

Units: mg/L
 Basis: NA

Analysis Lot: 337264

Analyte Name	Lab Control Sample RQ1303953-02			Duplicate Lab Control Sample RQ1303953-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	1.08	1.00	108	1.05	1.00	105	70 - 130	3	30
Acetic Acid	9.58	9.96	96	9.55	9.96	96	70 - 135	<1	30
Butanoic Acid (Butyric Acid)	10.4	10.0	104	10.2	10.0	101	78 - 113	2	30
Lactic Acid	9.72	9.90	98	9.57	9.90	97	70 - 117	2	30
Propionic Acid	9.52	10.1	95	9.55	10.1	95	80 - 125	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Project Name Coopervision		Project Number 70665-018		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																	
Project Manager Mark Ramsdell		Report CC		PRESERVATIVE																	
Company/Address Haley & Aldrich				NUMBER OF CONTAINERS	GC/MS VOCs • 8260 • 824 • CLP	GC/MS SVOCs • 8270 • 825	GC VOCs • 8021 • 601/602	PESTICIDES • 8081 • 808	PCSS • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SULFATE, SULFIDE, NITRATE Nitrite, Chloride	ALKALINITY	Dissolved Gases	METABOLIC ACIDS	Preservative Key					
200 Town Centre Dr Suite 2																0. NONE					
Rochester, NY 14623																1. HCL					
Phone # 585-321-4241		Email m.ramsdell@haleyaldrich.com														2. HNO ₃					
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name Santa McKenna/Noah Mantara								3. H ₂ SO ₄											
										4. NaOH											
										5. Zn. Acetate											
										6. MeOH											
										7. NaHSO ₄											
										8. Other _____											
REMARKS/ ALTERNATE DESCRIPTION																					

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX												
		DATE	TIME													
MW-3	-001	4/11/13	1310	GW	7	X								X	X	X
OW-306	-002	4/11/13	1245	GW	3	X										
MW-203	-003	4/11/13	1435	GW	3	X										
MW-202	-004	4/11/13	1615	GW	3	X										
MW-204	-005	4/11/13	1710	GW	3	X										
MW-502	-006	4/12/13	0920	GW	7	X					X	X	X			
MW-OW-302S	-007	4/12/13	1045	GW	7	X					X	X	X			
MW-501	-008	4/12/13	1305	GW	7	X					X	X	X			
MW-205A	-009	4/12/13	1430	GW	8	X					X	X	X	X		
TB-040813	-010	4/8/13	745	AQ	3	X										

SPECIAL INSTRUCTIONS/COMMENTS Metals <i>as per client email 4/29/13 ID should be MW-1. MW-205 collected at later date see R1302923</i>		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day _____ 2 day _____ 3 day _____ 4 day _____ 5 day _____ REQUESTED REPORT DATE _____		REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		INVOICE INFORMATION PO # 70665-018 BILL TO: Accounts Payable	
See QAPP <input type="checkbox"/>		STATE WHERE SAMPLES WERE COLLECTED NY		R1302496 5 Haley & Aldrich, Inc. Coopervision April 2013		Barcode	
RELINQUISHED BY Signature: <i>[Signature]</i> Printed Name: Santa McKenna Firm: Haley & Aldrich Date/Time: 4/12/13 1600	RECEIVED BY Signature: <i>[Signature]</i> Printed Name: AS Firm: 4/12/13/1600 Date/Time: _____	RELINQUISHED BY Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RECEIVED BY Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RELINQUISHED BY Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RELINQUISHED BY Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RELINQUISHED BY Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	



Cooler Receipt and Preservation Check Form

Project/Client Haley + Aldrich Folder Number R1302496

Cooler received on 4/12/13 by: dfw COURIER: ALS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
- Were ~~Ice~~ or Ice packs present? YES NO
- Where did the bottles originate? ALS/ROC, CLIENT
- Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
- Temperature of cooler(s) upon receipt: 7.3° 8.8°

Is the temperature within 0° - 6° C?: Y N Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: 4/12/13 / 16:14

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: *Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R-002 by dfw on 4/12/13 at 16:14
5035 samples placed in storage location by on at

PC Secondary Review: no 4/15/13 noted on conf.

Cooler Breakdown: Date: 4/15/13 Time: 1001 by: dfw

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent			Lot, Received <small>5/14/01/13</small>	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH			WC112214 224C	4/14					No = Samples were preserved at lab as listed
≤2	HNO ₃	✓		BD526127D	4/14					
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						PM OK to Adjust:
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet				
	Zn Aceta	-	-	WC112237E	3/11					
HCl		*	*	4112100	3/19					

Bottle lot numbers: 031813-1K, 3-043-002, 010713-2A, 030413-2E

Other Comments: H₃ PO₄ Lot: WC1120131E exp: 2/14
dfw 4/15/13

PC Secondary Review: no 4/29/13

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



May 13, 2013

Service Request No: R1302923

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision/70665-001

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on April 26, 2013. For your reference, these analyses have been assigned our service request number **R1302923**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 31

Client: Haley & Aldrich of New York
Project: Coopervision MW-205 #70665-018 4/13
Sample Matrix: Water

Service Request No.: R1302923
Date Received: 4/26/13

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

One (1) water sample and one (1) Trip Blank were collected on 4/26/13 by H&A and received for analysis at ALS on the same day. The samples were received unbroken and consistent with the accompanying chain of custody form. The cooler temperature upon receipt at the laboratory was 7.6°C outside the guidelines of 0-6°C however the samples were collected on the same day and received on ice.

General Chemistry Parameters & Metals

One (1) water sample was analyzed for a client specific list of Anion and Cation parameters: Chloride, Sulfate, Total Alkalinity, Nitrate, Nitrite, and Sulfide.

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for all analyses.

All holding times were met for these analyses.

Batch QC is included in the report. All Laboratory Control Sample (LCS) recoveries were within QC limits.

All Laboratory Method Blanks were free from contamination.

No problems were encountered during the analysis of these samples.

Organic Compounds

One (1) water sample and one (1) Trip Blank were analyzed for the TCL of Volatile Organics by GC/MS Method 8260C from SW-846. One (1) water sample was analyzed for Dissolved Gases by modified GC Method RSK-175 and Metabolic Acids by HPLC methodology.

All Initial and Continuing Calibration Criteria was met for these samples except for the following %D was outside the $\pm 20\%$ on the 8260 analysis: Bromoform (36.8%), Bromomethane (-23.6%), Carbon Tetrachloride (25.1%) and 1,1-Dichloroethene (-20.9%) on the 5/6/13 analytical run. Hits for the compounds on samples associated with this CCV should be considered as estimated, however the Trip Blank was non-detect for these compounds.

Batch QC is included in the report. Several 1 8260 Laboratory Control Samples (LCS) recoveries were outside limits on the 5/6/13 and 5/8/13 runs All exceeded recoveries are flagged as “*”. All exceedences were outside limits high, indicating possible high bias. All samples were non-detect for these compounds and therefore unaffected. All LCS and LCS Duplicate recoveries were within limits for RSK and Metabolic Acids. The Relative Percent Difference (RPD) calculations were within QC acceptance limits.

Approved by



Date

5/13/13

Hits above the calibration range of the standards are flagged as "E" estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent dilution hits are flagged as "D".

All surrogate recoveries were within acceptance limits.

All samples were analyzed within the appropriate holding times. All vials are checked for preservation after analysis. The VOC samples were found to be preserved to a pH of <2 or the samples were analyzed within 7 days from collection for unpreserved aliquots. The RSK vials were found to be unpreserved at a pH of 5. The sample was run 4 days outside of the 7 day holding time for unpreserved samples. All ALS vials are certified as preserved. Matrix interference is suspected.

The Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by



Date



CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1302923

<u>Lab ID</u>	<u>Client ID</u>
R1302923-001	MW-205
R1302923-002	TB 042413

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications¹

NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx>

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water
 Sample Name: MW-205
 Lab Code: R1302923-001

Service Request: R1302923
 Date Collected: 4/26/13 1220
 Date Received: 4/26/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2900		mg/L	2.0	1	NA	5/1/13 09:00	
Chloride	9056A	837		mg/L	40	200	NA	4/26/13 16:07	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/26/13 15:34	
Nitrite as Nitrogen	9056A	20	U	mg/L	20	200	NA	4/26/13 16:07	
Sulfate	9056A	9.7		mg/L	2.0	10	NA	4/26/13 15:34	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	5/ 2/13	4/30/13 08:22	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: 4/26/13 1220
 Date Received: 4/26/13
 Date Analyzed: 5/8/13 18:31

Sample Name: MW-205
 Lab Code: R1302923-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA8\DATA\050813\A5912.D\

Analysis Lot: 339518
 Instrument Name: R-MS-08
 Dilution Factor: 2000

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20000	U	20000	
71-43-2	Benzene	10000	U	10000	
75-27-4	Bromodichloromethane	10000	U	10000	
75-25-2	Bromoform	10000	U	10000	
74-83-9	Bromomethane	10000	U	10000	
78-93-3	2-Butanone (MEK)	20000	U	20000	
75-15-0	Carbon Disulfide	20000	U	20000	
56-23-5	Carbon Tetrachloride	10000	U	10000	
108-90-7	Chlorobenzene	10000	U	10000	
75-00-3	Chloroethane	10000	U	10000	
67-66-3	Chloroform	10000	U	10000	
74-87-3	Chloromethane	10000	U	10000	
124-48-1	Dibromochloromethane	10000	U	10000	
75-34-3	1,1-Dichloroethane	240000		10000	
107-06-2	1,2-Dichloroethane	10000	U	10000	
75-35-4	1,1-Dichloroethene	10000	U	10000	
156-59-2	cis-1,2-Dichloroethene	10000	U	10000	
156-60-5	trans-1,2-Dichloroethene	10000	U	10000	
78-87-5	1,2-Dichloropropane	10000	U	10000	
10061-01-5	cis-1,3-Dichloropropene	10000	U	10000	
10061-02-6	trans-1,3-Dichloropropene	10000	U	10000	
100-41-4	Ethylbenzene	10000	U	10000	
591-78-6	2-Hexanone	20000	U	20000	
75-09-2	Methylene Chloride	10000	U	10000	
108-10-1	4-Methyl-2-pentanone (MIBK)	20000	U	20000	
100-42-5	Styrene	10000	U	10000	
79-34-5	1,1,2,2-Tetrachloroethane	10000	U	10000	
127-18-4	Tetrachloroethene	10000	U	10000	
108-88-3	Toluene	10000	U	10000	
71-55-6	1,1,1-Trichloroethane	140000		10000	
79-00-5	1,1,2-Trichloroethane	10000	U	10000	
79-01-6	Trichloroethene	10000	U	10000	
75-01-4	Vinyl Chloride	10000	U	10000	
95-47-6	o-Xylene	10000	U	10000	
179601-23-1	m,p-Xylenes	10000	U	10000	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: 4/26/13 1220
 Date Received: 4/26/13
 Date Analyzed: 5/8/13 18:31

Sample Name: MW-205
 Lab Code: R1302923-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA8\DATA\050813\A5912.D\

Analysis Lot: 339518
 Instrument Name: R-MS-08
 Dilution Factor: 2000

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	105	85-122	5/8/13 18:31	
	Toluene-d8	103	87-121	5/8/13 18:31	
	Dibromofluoromethane	105	89-119	5/8/13 18:31	



ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Collected: 4/26/13 1220
Date Received: 4/26/13
Date Analyzed: 5/7/13 13:16

Sample Name: MW-205
Lab Code: R1302923-001

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1003.run

Analysis Lot: 339597
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	14	1.0	
74-85-1	Ethylene	11	1.0	
74-82-8	Methane	310 E	1.0	
74-98-6	Propane	8.1	1.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Collected: 4/26/13 1220
Date Received: 4/26/13
Date Analyzed: 5/7/13 13:34

Sample Name: MW-205
Lab Code: R1302923-001
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1004.run

Analysis Lot: 339597
Instrument Name: R-GC-02
Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	15 D	5.0	
74-85-1	Ethylene	12 D	5.0	
74-82-8	Methane	520 D	5.0	
74-98-6	Propane	9.3 D	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: 4/26/13 1220
 Date Received: 4/26/13
 Date Analyzed: 4/30/13 12:09

Sample Name: MW-205
 Lab Code: R1302923-001

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQUDATA\HPLC05\DATA\043013\X0009981.D\

Analysis Lot: 338663
 Instrument Name: R-HPLC-05
 Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	13 U	13	
64-19-7	Acetic Acid	630	25	
107-92-6	Butanoic Acid (Butyric Acid)	3100	50	
50-21-5	Lactic Acid	25 U	25	
79-09-4	Propionic Acid	810	25	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: 4/26/13 1220
 Date Received: 4/26/13
 Date Analyzed: 5/6/13 23:43

Sample Name: TB 042413
 Lab Code: R1302923-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa10\data\050613\E8941.D\

Analysis Lot: 339351
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Collected: 4/26/13 1220
Date Received: 4/26/13
Date Analyzed: 5/6/13 23:43

Sample Name: TB 042413
Lab Code: R1302923-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\050613\E8941.D\

Analysis Lot: 339351
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	91	85-122	5/6/13 23:43	
	Toluene-d8	92	87-121	5/6/13 23:43	
	Dibromofluoromethane	106	89-119	5/6/13 23:43	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1302923-MB

Service Request: R1302923
 Date Collected: NA
 Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0 U	mg/L	2.0	1	NA	5/1/13 09:00	
Chloride	9056A	0.20 U	mg/L	0.20	1	NA	4/26/13 13:20	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	NA	4/26/13 14:41	
Nitrite as Nitrogen	9056A	0.10 U	mg/L	0.10	1	NA	4/26/13 13:20	
Sulfate	9056A	0.20 U	mg/L	0.20	1	NA	4/26/13 14:41	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	5/2/13	4/30/13 08:22	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/6/13 17:38

Sample Name: Method Blank
 Lab Code: RQ1304840-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\050613\E8934.D\

Analysis Lot: 339351
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Collected: NA
Date Received: NA
Date Analyzed: 5/6/13 17:38

Sample Name: Method Blank
Lab Code: RQ1304840-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\050613\E8934.D\

Analysis Lot: 339351
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	91	85-122	5/6/13 17:38	
	Toluene-d8	94	87-121	5/6/13 17:38	
	Dibromofluoromethane	102	89-119	5/6/13 17:38	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/8/13 10:39

Sample Name: Method Blank
 Lab Code: RQ1304837-03

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA8\DATA\050813\A5895.D\

Analysis Lot: 339518
 Instrument Name: R-MS-08
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/8/13 10:39

Sample Name: Method Blank
 Lab Code: RQ1304837-03

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA8\DATA\050813\A5895.D\

Analysis Lot: 339518
 Instrument Name: R-MS-08
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
	Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
	4-Bromofluorobenzene	106	85-122	5/8/13 10:39	
	Toluene-d8	102	87-121	5/8/13 10:39	
	Dibromofluoromethane	104	89-119	5/8/13 10:39	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Collected: NA
Date Received: NA
Date Analyzed: 5/7/13 12:34

Sample Name: Method Blank
Lab Code: RQ1304856-01

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1001.run

Analysis Lot: 339597
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	1.0	U	1.0	
74-85-1	Ethylene	1.0	U	1.0	
74-82-8	Methane	1.0	U	1.0	
74-98-6	Propane	1.0	U	1.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Collected: NA
Date Received: NA
Date Analyzed: 4/30/13 10:34

Sample Name: Method Blank
Lab Code: RQ1304497-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
Data File Name: I:\ACQUATA\HPLC05\DATA\043013\X0009978.D\

Analysis Lot: 338663
Instrument Name: R-HPLC-05
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	0.50	U	0.50	
64-19-7	Acetic Acid	1.0	U	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0	U	2.0	
50-21-5	Lactic Acid	1.0	U	1.0	
79-09-4	Propionic Acid	1.0	U	1.0	

ALS ENVIRONMENTAL

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/1/13 11:45

Sample Name: Method Blank
 Lab Code: RQ1304497-06

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQUATA\HPLC05\DATA\050113\X0010006.D\

Analysis Lot: 338663
 Instrument Name: R-HPLC-05
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	0.50	U	0.50	
64-19-7	Acetic Acid	1.0	U	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0	U	2.0	
50-21-5	Lactic Acid	1.0	U	1.0	
79-09-4	Propionic Acid	1.0	U	1.0	

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Analyzed: 4/26/13 -
 5/ 1/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Lab Control Sample
 R1302923-LCS

Analyte Name	Method	Result	Spike		% Rec Limits
			Amount	% Rec	
Alkalinity as CaCO3, Total	SM 2320 B	970	1000	97	83 - 117
Chloride	9056A	1.95	2.00	97	80 - 120
Nitrate as Nitrogen	9056A	0.971	1.00	97	80 - 120
Nitrite as Nitrogen	9056A	0.964	1.0	96	80 - 120
Sulfate	9056A	1.89	2.00	95	80 - 120
Sulfide, Acid-Soluble	9034	7.81	9.0	87	17 - 129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Analyzed: 5/6/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 339351

Lab Control Sample
 RQ1304840-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	18.3	20.0	91	64 - 133
Benzene	19.8	20.0	99	78 - 118
Bromodichloromethane	22.8	20.0	114	79 - 123
Bromoform	30.3	20.0	151 *	69 - 126
Bromomethane	16.9	20.0	85	49 - 124
2-Butanone (MEK)	17.1	20.0	85	60 - 133
Carbon Disulfide	20.1	20.0	100	67 - 138
Carbon Tetrachloride	27.4	20.0	137 *	64 - 129
Chlorobenzene	20.6	20.0	103	80 - 121
Chloroethane	20.3	20.0	101	72 - 130
Chloroform	20.0	20.0	100	75 - 123
Chloromethane	22.5	20.0	112	55 - 139
Dibromochloromethane	25.8	20.0	129 *	78 - 127
1,1-Dichloroethane	20.5	20.0	103	76 - 124
1,2-Dichloroethane	19.3	20.0	96	72 - 130
1,1-Dichloroethene	19.5	20.0	97	67 - 119
cis-1,2-Dichloroethene	19.2	20.0	96	77 - 123
trans-1,2-Dichloroethene	19.7	20.0	99	72 - 120
1,2-Dichloropropane	21.3	20.0	107	83 - 119
cis-1,3-Dichloropropene	24.9	20.0	125	77 - 125
trans-1,3-Dichloropropene	26.4	20.0	132 *	69 - 127
Ethylbenzene	20.7	20.0	104	75 - 123
2-Hexanone	18.4	20.0	92	61 - 131
Methylene Chloride	19.8	20.0	99	73 - 122
4-Methyl-2-pentanone (MIBK)	20.3	20.0	101	61 - 132
Styrene	21.2	20.0	106	80 - 121
1,1,2,2-Tetrachloroethane	20.0	20.0	100	72 - 124
Tetrachloroethene	21.6	20.0	108	71 - 127
Toluene	19.9	20.0	99	77 - 120
1,1,1-Trichloroethane	21.5	20.0	108	67 - 121
1,1,2-Trichloroethane	19.6	20.0	98	81 - 117
Trichloroethene	20.8	20.0	104	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Analyzed: 5/6/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 339351

Lab Control Sample
RQ1304840-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	22.5	20.0	113	68 - 139
o-Xylene	20.7	20.0	104	77 - 131
m,p-Xylenes	43.5	40.0	109	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Analyzed: 5/ 8/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 339518

Lab Control Sample
 RQ1304837-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	23.1	20.0	116	64 - 133
Benzene	21.7	20.0	109	78 - 118
Bromodichloromethane	22.2	20.0	111	79 - 123
Bromoform	19.4	20.0	97	69 - 126
Bromomethane	23.7	20.0	119	49 - 124
2-Butanone (MEK)	20.8	20.0	104	60 - 133
Carbon Disulfide	20.6	20.0	103	67 - 138
Carbon Tetrachloride	21.4	20.0	107	64 - 129
Chlorobenzene	20.7	20.0	104	80 - 121
Chloroethane	21.5	20.0	107	72 - 130
Chloroform	20.8	20.0	104	75 - 123
Chloromethane	22.3	20.0	111	55 - 139
Dibromochloromethane	21.3	20.0	106	78 - 127
1,1-Dichloroethane	20.7	20.0	103	76 - 124
1,2-Dichloroethane	22.2	20.0	111	72 - 130
1,1-Dichloroethene	25.6	20.0	128 *	67 - 119
cis-1,2-Dichloroethene	21.6	20.0	108	77 - 123
trans-1,2-Dichloroethene	22.3	20.0	112	72 - 120
1,2-Dichloropropane	20.9	20.0	104	83 - 119
cis-1,3-Dichloropropene	20.8	20.0	104	77 - 125
trans-1,3-Dichloropropene	20.4	20.0	102	69 - 127
Ethylbenzene	21.1	20.0	105	75 - 123
2-Hexanone	20.2	20.0	101	61 - 131
Methylene Chloride	21.6	20.0	108	73 - 122
4-Methyl-2-pentanone (MIBK)	20.4	20.0	102	61 - 132
Styrene	21.5	20.0	107	80 - 121
1,1,2,2-Tetrachloroethane	20.8	20.0	104	72 - 124
Tetrachloroethene	20.6	20.0	103	71 - 127
Toluene	20.9	20.0	104	77 - 120
1,1,1-Trichloroethane	21.7	20.0	108	67 - 121
1,1,2-Trichloroethane	21.0	20.0	105	81 - 117
Trichloroethene	21.5	20.0	107	75 - 122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Analyzed: 5/ 8/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 339518

Lab Control Sample
RQ1304837-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	23.7	20.0	118	68 - 139
o-Xylene	20.8	20.0	104	77 - 131
m,p-Xylenes	43.0	40.0	107	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1302923
Date Analyzed: 5/7/13

Lab Control Sample Summary
Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L
Basis: NA

Analysis Lot: 339597

Lab Control Sample
RQ1304856-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Ethane	25.9	26.1	99	82 - 127
Ethylene	24.3	24.3	100	76 - 119
Methane	25.4	26.2	97	82 - 126
Propane	25.9	25.5	102	76 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Analyzed: 4/30/13

Lab Control Sample Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids

Units: mg/L
 Basis: NA

Analysis Lot: 338663

Analyte Name	Lab Control Sample RQ1304497-02			Duplicate Lab Control Sample RQ1304497-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	0.890	1.00	89	1.12	1.00	112	70 - 130	23	30
Acetic Acid	8.79	9.96	88	8.72	9.96	88	70 - 135	<1	30
Butanoic Acid (Butyric Acid)	9.55	10.0	95	10.3	10.0	103	78 - 113	8	30
Lactic Acid	9.43	9.90	95	9.26	9.90	94	70 - 117	2	30
Propionic Acid	9.37	10.1	93	9.08	10.1	90	80 - 125	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1302923
 Date Analyzed: 5/ 1/13

Lab Control Sample Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids

Units: mg/L
 Basis: NA

Analysis Lot: 338663

Analyte Name	Lab Control Sample RQ1304497-07			Duplicate Lab Control Sample RQ1304497-08			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	0.960	1.00	96	0.950	1.00	95	70 - 130	1	30
Acetic Acid	8.94	9.96	90	8.87	9.96	89	70 - 135	<1	30
Butanoic Acid (Butyric Acid)	10.2	10.0	101	11.0	10.0	110	78 - 113	8	30
Lactic Acid	9.41	9.90	95	9.40	9.90	95	70 - 117	<1	30
Propionic Acid	9.65	10.1	96	9.36	10.1	93	80 - 125	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 07614

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

PROJECT INFORMATION			ANALYSIS REQUESTED (Include Method Number and Container Preservative)			
Project Name <u>Cooper-Vision</u>	Project Number <u>70665-018</u>	Report CC <u>MELANS DILL @ Haley Aldrich .COM</u>				
Project Manager <u>M. Lewis Dill</u>	Company/Address <u>Haley & Aldrich</u>	PRESERVATIVE				PRESERVATIVE KEY
200 Town Centre Dr Suite 2 Rochester NY 14623						0. NONE
Phone # <u>585-236-3275</u>	Email <u>MELANS DILL @ haley.aldrich.com</u>	NUMBER OF CONTAINERS				1. HCL
Supplier's Signature <u>[Signature]</u>	Sampler's Printed Name <u>NOAH MANTARO</u>	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	2. HNO3
						3. H2SO4
						4. NaOH
						5. Zn. Acetate
						6. MeOH
						7. NaHSO4
						8. Other
CLIENT SAMPLE ID <u>2288-0426-1220/MW208</u>	DATE <u>4/24/13</u>	DATE <u>4/24/13</u>	DATE <u>4/24/13</u>	DATE <u>4/24/13</u>	DATE <u>4/24/13</u>	REMARKS/ ALTERNATE DESCRIPTION

GC/MS VOAs • 8260 • 624 • CLP
GC/MS SVoAs • 8270 • 825
GC VOAs • 8021 • 801/802
PESTICIDES • 8081 • 808
PCBS • 8082 • 608
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
57 METALS: 31 METALS, 24 ANIONS, 2 CATIONS
M IONICITY
DISSOLVED GASES
METABOLIC ACIDS

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP

STATE WHERE SAMPLES WERE COLLECTED NX

TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION	
RUSH (SURCHARGES APPLY)	<input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input checked="" type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day	<input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + OC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + OC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data	PO # <u>70665-018</u> BILL TO: <u>Accounts payable</u>	R1302923 5 Haley & Aldrich, Inc. CooperVision	
REQUESTED REPORT DATE		RELINQUISHED BY		Signature	Printed Name
		Signature	Printed Name	Signature	Printed Name
		Firm	Firm	Firm	Firm
		Date/Time	Date/Time	Date/Time	Date/Time
		Signature	Printed Name	Signature	Printed Name
		Firm	Firm	Firm	Firm
		Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

Project/Client Haley & Aldrich Folder Number R1302923

Cooler received on 4/26/13 by: (IC) COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES (NO) N/A
5. Were Ice or Ice packs present? (YES) NO
6. Where did the bottles originate? (ALS/ROC, CLIENT)
7. Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set (N/A)
8. Temperature of cooler(s) upon receipt: 7.6

Is the temperature within 0° - 6° C?: Y (N) Y N Y N Y N Y N
If No, Explain Below Date/Time Temperatures Taken: 4/26/13 1436

Thermometer ID: IR (GUN#3) / IR GUN#4 Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R-002 by (A) on 4/26/13 at 1437
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: (K B 5/13/13) Rec'd same day on ice

Cooler Breakdown: Date: 4/26/13 Time: 1111 by: Sh

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH			<u>W112211C</u>	<u>2/14</u>					No = Samples were preserved at lab as listed
≤2	HNO ₃	<u>(✓)</u>		<u>1501526177D</u>	<u>4/14</u>					
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						PM OK to Adjust:
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet				
	Zn Aceta	-	-	<u>W112237 F</u>	<u>3/14</u>					
	HCl	*	*	<u>4112100</u>	<u>4/14</u>					

Bottle lot numbers: 3-043-002, 04513-10, 030413-2I

Other Comments: Sampled same day and on ice

PC Secondary Review: (K B 5/13/13)

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



October 28, 2013

Service Request No: R1307396

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision/ 70665-018

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on October 4, 2013. For your reference, these analyses have been assigned our service request number **R1307396**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 79

Client: Haley & Aldrich of New York
Project: Coopervision MW-205 #70665-018 10/13
Sample Matrix: Water

Service Request No.: R1307396
Date Received: 10/7/13

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Ten (10) water samples including one (1) Trip Blank were collected on 10/2-3/13 by H&A and received for analysis at ALS on 10/7/13. The samples were received unbroken and consistent with the accompanying chain of custody form. The cooler temperature upon receipt at the laboratory was 1.3°C within guidelines of 0-6°C.

General Chemistry Parameters & Metals

Five (5) water samples were analyzed for a client specific list of Anion and Cation parameters: Chloride, Sulfate, Total Alkalinity, Nitrate, Nitrite, and Sulfide.

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for these samples

All holding times were met for these analyses except for Nitrite for location MW-501 (ALS # R1307396-007) which was re-analyzed outside of the 48 hour holding time due to a high non-detect value in the initial analysis. Both sets of data are included in the report. The data out of holding time has been flagged as “*”.

Batch QC is included in the report. All Laboratory Control Sample (LCS) recoveries were within QC limits.

All Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Organic Compounds

Ten (10) water sample including one (1) Trip Blank were analyzed for the TCL of Volatile Organics by GC/MS Method 8260C from SW-846. Five (5) water samples were analyzed for Dissolved Gases by modified GC Method RSK-175 and one (1) sample was analyzed for Metabolic Acids by HPLC methodology.

All Initial and Continuing Calibration Criteria was met for all analyses except for the following 8260 CCV compounds which were $\geq \pm 20\%$ D:

- CCV from 10/7/13: Acetone.
- CCV from 10/7/13 second run: Bromoform.
- CCV from 10/9/13: 4-Methyl-2-pentanone.

Any hits in samples associated with these CCV's should be considered as estimated.

Approved by



Date

10/28/13

Batch QC is included in the report. All Laboratory Control Samples (LCS) and LCS Duplicate (LCSD) recoveries were within limits for 82602, RSK and Metabolic Acids. The Relative Percent Difference (RPD) calculations were within QC acceptance limits.

Hits above the calibration range of the standards are flagged as "E" estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent dilution hits are flagged as "D".

All surrogate recoveries were within acceptance limits.

All samples were analyzed within the appropriate holding times. All vials are checked for preservation after analysis. The VOC samples were found to be preserved to a pH of <2 or the samples were analyzed within 7 days from collection for unpreserved aliquots. The RSK vials for location MW-205 were found to be unpreserved at a pH of 5. The sample was run 5 days outside of the 7 day holding time for unpreserved samples. All ALS vials are certified as preserved. Matrix interference is suspected.

The Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by



Date

10/28/13

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1307396

<u>Lab ID</u>	<u>Client ID</u>
R1307396-001	OW-306
R1307396-002	MW-203
R1307396-003	MW-3
R1307396-004	MW-202
R1307396-005	MW-204
R1307396-006	MW-502
R1307396-007	MW-501
R1307396-008	OW-302S
R1307396-009	MW-205
R1307396-010	TRIP BLANK

00004

REPORT QUALIFIERS AND DEFINITIONS

- | | |
|---|--|
| <p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% (25% for CLP) difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	3010A
200.8	ILM05.3
6010C	3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3010A
6010 SPLP (1312) extract	3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 2/13 1655
 Date Received: 10/ 4/13
 Date Analyzed: 10/7/13 18:38

Sample Name: OW-306
 Lab Code: R1307396-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\100713\L0553.D\

Analysis Lot: 361935
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 2/13 1655
Date Received: 10/ 4/13
Date Analyzed: 10/7/13 18:38

Sample Name: OW-306
Lab Code: R1307396-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0553.D\

Analysis Lot: 361935
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	10/7/13 18:38	
Toluene-d8	99	87-121	10/7/13 18:38	
Dibromofluoromethane	103	89-119	10/7/13 18:38	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/3/13 1005
Date Received: 10/4/13
Date Analyzed: 10/7/13 19:09

Sample Name: MW-203
Lab Code: R1307396-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0554.D\

Analysis Lot: 361935
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1005
Date Received: 10/ 4/13
Date Analyzed: 10/7/13 19:09

Sample Name: MW-203
Lab Code: R1307396-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0554.D\

Analysis Lot: 361935
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	10/7/13 19:09	
Toluene-d8	98	87-121	10/7/13 19:09	
Dibromofluoromethane	103	89-119	10/7/13 19:09	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water
 Sample Name: MW-3
 Lab Code: R1307396-003

Service Request: R1307396
 Date Collected: 10/3/13 1100
 Date Received: 10/4/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	210	mg/L	2.0	1	NA	10/15/13 14:15	
Chloride	9056A	561	mg/L	20	100	NA	10/5/13 02:08	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	10/4/13 13:40	
Nitrite as Nitrogen	9056A	10 U	mg/L	10	100	NA	10/5/13 02:08	
Sulfate	9056A	7.7	mg/L	2.0	10	NA	10/5/13 04:57	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	10/9/13	10/9/13 09:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1307396-003

Service Request: R1307396
Date Collected: 10/ 3/13 1100
Date Received: 10/ 4/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	15200	µg/L	100	1	10/ 9/13	10/18/13 01:26	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1100
 Date Received: 10/ 4/13
 Date Analyzed: 10/7/13 19:39

Sample Name: MW-3
 Lab Code: R1307396-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0555.D\

Analysis Lot: 361935
 Instrument Name: R-MS-06
 Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	50 U	50	
71-43-2	Benzene	25 U	25	
75-27-4	Bromodichloromethane	25 U	25	
75-25-2	Bromoform	25 U	25	
74-83-9	Bromomethane	25 U	25	
78-93-3	2-Butanone (MEK)	50 U	50	
75-15-0	Carbon Disulfide	50 U	50	
56-23-5	Carbon Tetrachloride	25 U	25	
108-90-7	Chlorobenzene	25 U	25	
75-00-3	Chloroethane	1100 E	25	
67-66-3	Chloroform	25 U	25	
74-87-3	Chloromethane	25 U	25	
124-48-1	Dibromochloromethane	25 U	25	
75-34-3	1,1-Dichloroethane	93	25	
107-06-2	1,2-Dichloroethane	25 U	25	
75-35-4	1,1-Dichloroethene	25 U	25	
156-59-2	cis-1,2-Dichloroethene	25 U	25	
156-60-5	trans-1,2-Dichloroethene	25 U	25	
78-87-5	1,2-Dichloropropane	25 U	25	
10061-01-5	cis-1,3-Dichloropropene	25 U	25	
10061-02-6	trans-1,3-Dichloropropene	25 U	25	
100-41-4	Ethylbenzene	25 U	25	
591-78-6	2-Hexanone	50 U	50	
75-09-2	Methylene Chloride	25 U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	
100-42-5	Styrene	25 U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25 U	25	
127-18-4	Tetrachloroethene	25 U	25	
108-88-3	Toluene	25 U	25	
71-55-6	1,1,1-Trichloroethane	25 U	25	
79-00-5	1,1,2-Trichloroethane	25 U	25	
79-01-6	Trichloroethene	25 U	25	
75-01-4	Vinyl Chloride	140	25	
95-47-6	o-Xylene	25 U	25	
179601-23-1	m,p-Xylenes	25 U	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1100
Date Received: 10/ 4/13
Date Analyzed: 10/7/13 19:39

Sample Name: MW-3
Lab Code: R1307396-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQDATA\MSVOA6\DATA\100713\L0555.D\

Analysis Lot: 361935
Instrument Name: R-MS-06
Dilution Factor: 5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	10/7/13 19:39	
Toluene-d8	99	87-121	10/7/13 19:39	
Dibromofluoromethane	105	89-119	10/7/13 19:39	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1100
 Date Received: 10/ 4/13
 Date Analyzed: 10/11/13 16:49

Sample Name: MW-3
 Lab Code: R1307396-003
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\101113\L0730.D\

Analysis Lot: 362925
 Instrument Name: R-MS-06
 Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	100 U	100	
71-43-2	Benzene	50 U	50	
75-27-4	Bromodichloromethane	50 U	50	
75-25-2	Bromoform	50 U	50	
74-83-9	Bromomethane	50 U	50	
78-93-3	2-Butanone (MEK)	100 U	100	
75-15-0	Carbon Disulfide	100 U	100	
56-23-5	Carbon Tetrachloride	50 U	50	
108-90-7	Chlorobenzene	50 U	50	
75-00-3	Chloroethane	1200 D	50	
67-66-3	Chloroform	50 U	50	
74-87-3	Chloromethane	50 U	50	
124-48-1	Dibromochloromethane	50 U	50	
75-34-3	1,1-Dichloroethane	96 D	50	
107-06-2	1,2-Dichloroethane	50 U	50	
75-35-4	1,1-Dichloroethene	50 U	50	
156-59-2	cis-1,2-Dichloroethene	50 U	50	
156-60-5	trans-1,2-Dichloroethene	50 U	50	
78-87-5	1,2-Dichloropropane	50 U	50	
10061-01-5	cis-1,3-Dichloropropene	50 U	50	
10061-02-6	trans-1,3-Dichloropropene	50 U	50	
100-41-4	Ethylbenzene	50 U	50	
591-78-6	2-Hexanone	100 U	100	
75-09-2	Methylene Chloride	50 U	50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100 U	100	
100-42-5	Styrene	50 U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50 U	50	
127-18-4	Tetrachloroethene	50 U	50	
108-88-3	Toluene	50 U	50	
71-55-6	1,1,1-Trichloroethane	50 U	50	
79-00-5	1,1,2-Trichloroethane	50 U	50	
79-01-6	Trichloroethene	50 U	50	
75-01-4	Vinyl Chloride	140 D	50	
95-47-6	o-Xylene	50 U	50	
179601-23-1	m,p-Xylenes	50 U	50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1100
Date Received: 10/ 4/13
Date Analyzed: 10/11/13 16:49

Sample Name: MW-3
Lab Code: R1307396-003
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\101113\0730.D\

Analysis Lot: 362925
Instrument Name: R-MS-06
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/11/13 16:49	
Toluene-d8	98	87-121	10/11/13 16:49	
Dibromofluoromethane	103	89-119	10/11/13 16:49	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1100
Date Received: 10/ 4/13
Date Analyzed: 10/15/13 11:33

Sample Name: MW-3
Lab Code: R1307396-003

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1004.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	25 U	25	
74-85-1	Ethylene	70	25	
74-82-8	Methane	2200	25	
74-98-6	Propane	25 U	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1105
 Date Received: 10/ 4/13
 Date Analyzed: 10/7/13 20:08

Sample Name: MW-202
 Lab Code: R1307396-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0556.D\

Analysis Lot: 361935
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	30	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	26	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/3/13 1105
Date Received: 10/4/13
Date Analyzed: 10/7/13 20:08

Sample Name: MW-202
Lab Code: R1307396-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0556.D\

Analysis Lot: 361935
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	10/7/13 20:08	
Toluene-d8	100	87-121	10/7/13 20:08	
Dibromofluoromethane	105	89-119	10/7/13 20:08	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/3/13 1245
 Date Received: 10/4/13
 Date Analyzed: 10/8/13 00:39

Sample Name: MW-204
 Lab Code: R1307396-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0565.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	7.4	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	9.3	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1245
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 00:39

Sample Name: MW-204
Lab Code: R1307396-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0565.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/8/13 00:39	
Toluene-d8	101	87-121	10/8/13 00:39	
Dibromofluoromethane	104	89-119	10/8/13 00:39	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water
 Sample Name: MW-502
 Lab Code: R1307396-006

Service Request: R1307396
 Date Collected: 10/ 3/13 1345
 Date Received: 10/ 4/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	489	mg/L	2.0	1	NA	10/15/13 14:15	
Chloride	9056A	1030	mg/L	40	200	NA	10/5/13 02:20	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	10/4/13 13:55	
Nitrite as Nitrogen	9056A	20 U	mg/L	20	200	NA	10/5/13 02:20	
Sulfate	9056A	2.0 U	mg/L	2.0	10	NA	10/5/13 05:10	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	10/ 9/13	10/9/13 09:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1307396-006

Service Request: R1307396
Date Collected: 10/ 3/13 1345
Date Received: 10/ 4/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	11500	µg/L	100	1	10/ 9/13	10/18/13 01:32	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1345
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 01:10

Sample Name: MW-502
Lab Code: R1307396-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0566.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	250 U	250	
71-43-2	Benzene	130 U	130	
75-27-4	Bromodichloromethane	130 U	130	
75-25-2	Bromoform	130 U	130	
74-83-9	Bromomethane	130 U	130	
78-93-3	2-Butanone (MEK)	250 U	250	
75-15-0	Carbon Disulfide	250 U	250	
56-23-5	Carbon Tetrachloride	130 U	130	
108-90-7	Chlorobenzene	130 U	130	
75-00-3	Chloroethane	6600 E	130	
67-66-3	Chloroform	130 U	130	
74-87-3	Chloromethane	130 U	130	
124-48-1	Dibromochloromethane	130 U	130	
75-34-3	1,1-Dichloroethane	130 U	130	
107-06-2	1,2-Dichloroethane	130 U	130	
75-35-4	1,1-Dichloroethene	130 U	130	
156-59-2	cis-1,2-Dichloroethene	130 U	130	
156-60-5	trans-1,2-Dichloroethene	130 U	130	
78-87-5	1,2-Dichloropropane	130 U	130	
10061-01-5	cis-1,3-Dichloropropene	130 U	130	
10061-02-6	trans-1,3-Dichloropropene	130 U	130	
100-41-4	Ethylbenzene	130 U	130	
591-78-6	2-Hexanone	250 U	250	
75-09-2	Methylene Chloride	130 U	130	
108-10-1	4-Methyl-2-pentanone (MIBK)	250 U	250	
100-42-5	Styrene	130 U	130	
79-34-5	1,1,2,2-Tetrachloroethane	130 U	130	
127-18-4	Tetrachloroethene	130 U	130	
108-88-3	Toluene	130 U	130	
71-55-6	1,1,1-Trichloroethane	130 U	130	
79-00-5	1,1,2-Trichloroethane	130 U	130	
79-01-6	Trichloroethene	130 U	130	
75-01-4	Vinyl Chloride	540	130	
95-47-6	o-Xylene	130 U	130	
179601-23-1	m,p-Xylenes	130 U	130	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1345
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 01:10

Sample Name: MW-502
Lab Code: R1307396-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0566.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 25

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/8/13 01:10	
Toluene-d8	97	87-121	10/8/13 01:10	
Dibromofluoromethane	101	89-119	10/8/13 01:10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1345
 Date Received: 10/ 4/13
 Date Analyzed: 10/8/13 08:17

Sample Name: MW-502
 Lab Code: R1307396-006
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0579.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 50

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	500 U	500	
71-43-2	Benzene	250 U	250	
75-27-4	Bromodichloromethane	250 U	250	
75-25-2	Bromoform	250 U	250	
74-83-9	Bromomethane	250 U	250	
78-93-3	2-Butanone (MEK)	500 U	500	
75-15-0	Carbon Disulfide	500 U	500	
56-23-5	Carbon Tetrachloride	250 U	250	
108-90-7	Chlorobenzene	250 U	250	
75-00-3	Chloroethane	7200 D	250	
67-66-3	Chloroform	250 U	250	
74-87-3	Chloromethane	250 U	250	
124-48-1	Dibromochloromethane	250 U	250	
75-34-3	1,1-Dichloroethane	250 U	250	
107-06-2	1,2-Dichloroethane	250 U	250	
75-35-4	1,1-Dichloroethene	250 U	250	
156-59-2	cis-1,2-Dichloroethene	250 U	250	
156-60-5	trans-1,2-Dichloroethene	250 U	250	
78-87-5	1,2-Dichloropropane	250 U	250	
10061-01-5	cis-1,3-Dichloropropene	250 U	250	
10061-02-6	trans-1,3-Dichloropropene	250 U	250	
100-41-4	Ethylbenzene	250 U	250	
591-78-6	2-Hexanone	500 U	500	
75-09-2	Methylene Chloride	250 U	250	
108-10-1	4-Methyl-2-pentanone (MIBK)	500 U	500	
100-42-5	Styrene	250 U	250	
79-34-5	1,1,2,2-Tetrachloroethane	250 U	250	
127-18-4	Tetrachloroethene	250 U	250	
108-88-3	Toluene	250 U	250	
71-55-6	1,1,1-Trichloroethane	250 U	250	
79-00-5	1,1,2-Trichloroethane	250 U	250	
79-01-6	Trichloroethene	250 U	250	
75-01-4	Vinyl Chloride	580 D	250	
95-47-6	o-Xylene	250 U	250	
179601-23-1	m,p-Xylenes	250 U	250	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1345
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 08:17

Sample Name: MW-502
Lab Code: R1307396-006
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0579.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 50

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	10/8/13 08:17	
Toluene-d8	99	87-121	10/8/13 08:17	
Dibromofluoromethane	103	89-119	10/8/13 08:17	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1345
Date Received: 10/ 4/13
Date Analyzed: 10/15/13 12:04

Sample Name: MW-502
Lab Code: R1307396-006

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1005.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 125

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	130	U	130	
74-85-1	Ethylene	130	U	130	
74-82-8	Methane	21000	E	130	
74-98-6	Propane	130	U	130	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/3/13 1345
Date Received: 10/4/13
Date Analyzed: 10/15/13 12:27

Sample Name: MW-502
Lab Code: R1307396-006
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1006.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 250

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	250 U	250	
74-85-1	Ethylene	250 U	250	
74-82-8	Methane	22000 D	250	
74-98-6	Propane	250 U	250	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

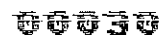
Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1307396-007

Service Request: R1307396
Date Collected: 10/ 3/13 1530
Date Received: 10/ 4/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	410	mg/L	2.0	1	NA	10/15/13 14:15	
Chloride	9056A	1860	mg/L	80	400	NA	10/15/13 23:23	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	10/4/13 13:30	
Nitrite as Nitrogen	9056A	40 U	mg/L	40	400	NA	10/9/13 13:19	*
Sulfate	9056A	36.3	mg/L	2.0	10	NA	10/5/13 04:33	
Sulfide, Acid-Soluble	9034	1.0	mg/L	1.0	1	10/ 9/13	10/9/13 09:00	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1307396-007
Run Type: Dilution

Service Request: R1307396
Date Collected: 10/ 3/13 1530
Date Received: 10/ 4/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrite as Nitrogen	9056A	100 U	mg/L	100	1000	NA	10/5/13 01:20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1307396-007

Service Request: R1307396
Date Collected: 10/ 3/13 1530
Date Received: 10/ 4/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	21000	µg/L	100	1	10/ 9/13	10/18/13 01:39	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1530
 Date Received: 10/ 4/13
 Date Analyzed: 10/8/13 01:40

Sample Name: MW-501
 Lab Code: R1307396-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0567.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	50 U	50	
71-43-2	Benzene	25 U	25	
75-27-4	Bromodichloromethane	25 U	25	
75-25-2	Bromoform	25 U	25	
74-83-9	Bromomethane	25 U	25	
78-93-3	2-Butanone (MEK)	50 U	50	
75-15-0	Carbon Disulfide	50 U	50	
56-23-5	Carbon Tetrachloride	25 U	25	
108-90-7	Chlorobenzene	25 U	25	
75-00-3	Chloroethane	1200 E	25	
67-66-3	Chloroform	25 U	25	
74-87-3	Chloromethane	25 U	25	
124-48-1	Dibromochloromethane	25 U	25	
75-34-3	1,1-Dichloroethane	130	25	
107-06-2	1,2-Dichloroethane	25 U	25	
75-35-4	1,1-Dichloroethene	25 U	25	
156-59-2	cis-1,2-Dichloroethene	25 U	25	
156-60-5	trans-1,2-Dichloroethene	25 U	25	
78-87-5	1,2-Dichloropropane	25 U	25	
10061-01-5	cis-1,3-Dichloropropene	25 U	25	
10061-02-6	trans-1,3-Dichloropropene	25 U	25	
100-41-4	Ethylbenzene	25 U	25	
591-78-6	2-Hexanone	50 U	50	
75-09-2	Methylene Chloride	25 U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	
100-42-5	Styrene	25 U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25 U	25	
127-18-4	Tetrachloroethene	25 U	25	
108-88-3	Toluene	25 U	25	
71-55-6	1,1,1-Trichloroethane	25 U	25	
79-00-5	1,1,2-Trichloroethane	25 U	25	
79-01-6	Trichloroethene	25 U	25	
75-01-4	Vinyl Chloride	93	25	
95-47-6	o-Xylene	25 U	25	
179601-23-1	m,p-Xylenes	25 U	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1530
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 01:40

Sample Name: MW-501
Lab Code: R1307396-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0567.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	10/8/13 01:40	
Toluene-d8	98	87-121	10/8/13 01:40	
Dibromofluoromethane	102	89-119	10/8/13 01:40	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1530
 Date Received: 10/ 4/13
 Date Analyzed: 10/8/13 08:46

Sample Name: MW-501
 Lab Code: R1307396-007
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0580.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	100 U	100	
71-43-2	Benzene	50 U	50	
75-27-4	Bromodichloromethane	50 U	50	
75-25-2	Bromoform	50 U	50	
74-83-9	Bromomethane	50 U	50	
78-93-3	2-Butanone (MEK)	100 U	100	
75-15-0	Carbon Disulfide	100 U	100	
56-23-5	Carbon Tetrachloride	50 U	50	
108-90-7	Chlorobenzene	50 U	50	
75-00-3	Chloroethane	1400 D	50	
67-66-3	Chloroform	50 U	50	
74-87-3	Chloromethane	50 U	50	
124-48-1	Dibromochloromethane	50 U	50	
75-34-3	1,1-Dichloroethane	140 D	50	
107-06-2	1,2-Dichloroethane	50 U	50	
75-35-4	1,1-Dichloroethene	50 U	50	
156-59-2	cis-1,2-Dichloroethene	50 U	50	
156-60-5	trans-1,2-Dichloroethene	50 U	50	
78-87-5	1,2-Dichloropropane	50 U	50	
10061-01-5	cis-1,3-Dichloropropene	50 U	50	
10061-02-6	trans-1,3-Dichloropropene	50 U	50	
100-41-4	Ethylbenzene	50 U	50	
591-78-6	2-Hexanone	100 U	100	
75-09-2	Methylene Chloride	50 U	50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100 U	100	
100-42-5	Styrene	50 U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50 U	50	
127-18-4	Tetrachloroethene	50 U	50	
108-88-3	Toluene	50 U	50	
71-55-6	1,1,1-Trichloroethane	50 U	50	
79-00-5	1,1,2-Trichloroethane	50 U	50	
79-01-6	Trichloroethene	50 U	50	
75-01-4	Vinyl Chloride	100 D	50	
95-47-6	o-Xylene	50 U	50	
179601-23-1	m,p-Xylenes	50 U	50	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1530
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 08:46

Sample Name: MW-501
Lab Code: R1307396-007
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0580.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	10/8/13 08:46	
Toluene-d8	99	87-121	10/8/13 08:46	
Dibromofluoromethane	102	89-119	10/8/13 08:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1530
Date Received: 10/ 4/13
Date Analyzed: 10/15/13 12:38

Sample Name: MW-501
Lab Code: R1307396-007

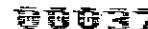
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1007.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 200

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	200 U	200	
74-85-1	Ethylene	200 U	200	
74-82-8	Methane	12000	200	
74-98-6	Propane	200 U	200	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water
 Sample Name: OW-302S
 Lab Code: R1307396-008

Service Request: R1307396
 Date Collected: 10/ 3/13 1540
 Date Received: 10/ 4/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	669	mg/L	2.0	1	NA	10/15/13 14:15	
Chloride	9056A	2720	mg/L	200	1000	NA	10/5/13 00:43	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	10/4/13 13:25	
Nitrite as Nitrogen	9056A	100 U	mg/L	100	1000	NA	10/5/13 00:43	
Sulfate	9056A	2.0 U	mg/L	2.0	10	NA	10/5/13 03:57	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	10/ 9/13	10/9/13 09:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: OW-302S
Lab Code: R1307396-008

Service Request: R1307396
Date Collected: 10/ 3/13 1540
Date Received: 10/ 4/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	18700	µg/L	100	1	10/ 9/13	10/18/13 01:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1540
 Date Received: 10/ 4/13
 Date Analyzed: 10/10/13 01:45

Sample Name: OW-302S
 Lab Code: R1307396-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100913\L0657.D\

Analysis Lot: 362518
 Instrument Name: R-MS-06
 Dilution Factor: 250

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	2500	U	2500	
71-43-2	Benzene	1300	U	1300	
75-27-4	Bromodichloromethane	1300	U	1300	
75-25-2	Bromoform	1300	U	1300	
74-83-9	Bromomethane	1300	U	1300	
78-93-3	2-Butanone (MEK)	2500	U	2500	
75-15-0	Carbon Disulfide	2500	U	2500	
56-23-5	Carbon Tetrachloride	1300	U	1300	
108-90-7	Chlorobenzene	1300	U	1300	
75-00-3	Chloroethane	36000		1300	
67-66-3	Chloroform	1300	U	1300	
74-87-3	Chloromethane	1300	U	1300	
124-48-1	Dibromochloromethane	1300	U	1300	
75-34-3	1,1-Dichloroethane	1300	U	1300	
107-06-2	1,2-Dichloroethane	1300	U	1300	
75-35-4	1,1-Dichloroethene	1300	U	1300	
156-59-2	cis-1,2-Dichloroethene	1300	U	1300	
156-60-5	trans-1,2-Dichloroethene	1300	U	1300	
78-87-5	1,2-Dichloropropane	1300	U	1300	
10061-01-5	cis-1,3-Dichloropropene	1300	U	1300	
10061-02-6	trans-1,3-Dichloropropene	1300	U	1300	
100-41-4	Ethylbenzene	1300	U	1300	
591-78-6	2-Hexanone	2500	U	2500	
75-09-2	Methylene Chloride	1300	U	1300	
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	U	2500	
100-42-5	Styrene	1300	U	1300	
79-34-5	1,1,2,2-Tetrachloroethane	1300	U	1300	
127-18-4	Tetrachloroethene	1300	U	1300	
108-88-3	Toluene	1300	U	1300	
71-55-6	1,1,1-Trichloroethane	1300	U	1300	
79-00-5	1,1,2-Trichloroethane	1300	U	1300	
79-01-6	Trichloroethene	1300	U	1300	
75-01-4	Vinyl Chloride	1300	U	1300	
95-47-6	o-Xylene	1300	U	1300	
179601-23-1	m,p-Xylenes	1300	U	1300	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1540
Date Received: 10/ 4/13
Date Analyzed: 10/10/13 01:45

Sample Name: OW-302S
Lab Code: R1307396-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100913\L0657.D\

Analysis Lot: 362518
Instrument Name: R-MS-06
Dilution Factor: 250

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	10/10/13 01:45	
Toluene-d8	96	87-121	10/10/13 01:45	
Dibromofluoromethane	103	89-119	10/10/13 01:45	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1540
Date Received: 10/ 4/13
Date Analyzed: 10/15/13 13:02

Sample Name: OW-302S
Lab Code: R1307396-008

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1009.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 100

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	100	U	100	
74-85-1	Ethylene	100	U	100	
74-82-8	Methane	14000	E	100	
74-98-6	Propane	100	U	100	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/3/13 1540
Date Received: 10/4/13
Date Analyzed: 10/15/13 13:12

Sample Name: OW-302S
Lab Code: R1307396-008
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1010.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 200

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	200 U	200	
74-85-1	Ethylene	200 U	200	
74-82-8	Methane	14000 D	200	
74-98-6	Propane	200 U	200	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water
 Sample Name: MW-205
 Lab Code: R1307396-009

Service Request: R1307396
 Date Collected: 10/ 3/13 1640
 Date Received: 10/ 4/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO3, Total	SM 2320 B	2900	mg/L	2.0	1	NA	10/15/13 14:18	
Chloride	9056A	736	mg/L	40	200	NA	10/5/13 01:32	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	10/4/13 13:35	
Nitrite as Nitrogen	9056A	20 U	mg/L	20	200	NA	10/5/13 01:32	
Sulfate	9056A	10.9	mg/L	2.0	10	NA	10/5/13 04:45	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	10/ 9/13	10/9/13 09:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1307396-009

Service Request: R1307396
Date Collected: 10/ 3/13 1640
Date Received: 10/ 4/13

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	99100	µg/L	1000	10	10/ 9/13	10/18/13 17:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 10/ 3/13 1640
 Date Received: 10/ 4/13
 Date Analyzed: 10/8/13 02:41

Sample Name: MW-205
 Lab Code: R1307396-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\100713\L0569.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 2000

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20000	U	20000	
71-43-2	Benzene	10000	U	10000	
75-27-4	Bromodichloromethane	10000	U	10000	
75-25-2	Bromoform	10000	U	10000	
74-83-9	Bromomethane	10000	U	10000	
78-93-3	2-Butanone (MEK)	20000	U	20000	
75-15-0	Carbon Disulfide	20000	U	20000	
56-23-5	Carbon Tetrachloride	10000	U	10000	
108-90-7	Chlorobenzene	10000	U	10000	
75-00-3	Chloroethane	10000	U	10000	
67-66-3	Chloroform	10000	U	10000	
74-87-3	Chloromethane	10000	U	10000	
124-48-1	Dibromochloromethane	10000	U	10000	
75-34-3	1,1-Dichloroethane	230000		10000	
107-06-2	1,2-Dichloroethane	10000	U	10000	
75-35-4	1,1-Dichloroethene	10000	U	10000	
156-59-2	cis-1,2-Dichloroethene	10000	U	10000	
156-60-5	trans-1,2-Dichloroethene	10000	U	10000	
78-87-5	1,2-Dichloropropane	10000	U	10000	
10061-01-5	cis-1,3-Dichloropropene	10000	U	10000	
10061-02-6	trans-1,3-Dichloropropene	10000	U	10000	
100-41-4	Ethylbenzene	10000	U	10000	
591-78-6	2-Hexanone	20000	U	20000	
75-09-2	Methylene Chloride	10000	U	10000	
108-10-1	4-Methyl-2-pentanone (MIBK)	20000	U	20000	
100-42-5	Styrene	10000	U	10000	
79-34-5	1,1,2,2-Tetrachloroethane	10000	U	10000	
127-18-4	Tetrachloroethene	10000	U	10000	
108-88-3	Toluene	10000	U	10000	
71-55-6	1,1,1-Trichloroethane	110000		10000	
79-00-5	1,1,2-Trichloroethane	10000	U	10000	
79-01-6	Trichloroethene	10000	U	10000	
75-01-4	Vinyl Chloride	10000	U	10000	
95-47-6	o-Xylene	10000	U	10000	
179601-23-1	m,p-Xylenes	10000	U	10000	

00046

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1640
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 02:41

Sample Name: MW-205
Lab Code: R1307396-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQDATA\MSVOA6\DATA\100713\L0569.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 2000

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	10/8/13 02:41	
Toluene-d8	99	87-121	10/8/13 02:41	
Dibromofluoromethane	104	89-119	10/8/13 02:41	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/3/13 1640
Date Received: 10/4/13
Date Analyzed: 10/15/13 12:48

Sample Name: MW-205
Lab Code: R1307396-009

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1008.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	10	10	
74-85-1	Ethylene	10	10	
74-82-8	Methane	1000	10	
74-98-6	Propane	10 U	10	

00048

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 10/ 3/13 1640
Date Received: 10/ 4/13
Date Analyzed: 10/8/13 17:51

Sample Name: MW-205
Lab Code: R1307396-009

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
Data File Name: I:\ACQU\DATA\HPLC05\DATA\100813\X0010879.D\

Analysis Lot: 362374
Instrument Name: R-HPLC-05
Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	13 U	13	
64-19-7	Acetic Acid	720	25	
107-92-6	Butanoic Acid (Butyric Acid)	2900	50	
50-21-5	Lactic Acid	25 U	25	
79-09-4	Propionic Acid	890	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: 9/26/13
 Date Received: 10/4/13
 Date Analyzed: 10/8/13 03:11

Sample Name: TRIP BLANK
 Lab Code: R1307396-010

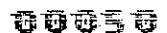
Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\100713\L0570.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: 9/26/13
Date Received: 10/4/13
Date Analyzed: 10/8/13 03:11

Sample Name: TRIP BLANK
Lab Code: R1307396-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0570.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	10/8/13 03:11	
Toluene-d8	97	87-121	10/8/13 03:11	
Dibromofluoromethane	103	89-119	10/8/13 03:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1307396-MB1

Service Request: R1307396
 Date Collected: NA
 Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	10/15/13 14:15	
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	10/4/13 23:31	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	10/4/13 12:18	
Nitrite as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	10/4/13 23:31	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	10/4/13 23:31	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/ 9/13	10/9/13 09:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1307396-MB2

Service Request: R1307396
 Date Collected: NA
 Date Received: NA
 Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	10/15/13 14:18	
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	10/15/13 21:59	
Nitrite as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	10/9/13 12:09	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1307396-MB

Service Request: R1307396
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	100 U	µg/L	100	1	10/ 9/13	10/18/13 00:42	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/7/13 12:08

Sample Name: Method Blank
 Lab Code: RQ1312508-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0540.D\

Analysis Lot: 361935
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: NA
Date Received: NA
Date Analyzed: 10/7/13 12:08

Sample Name: Method Blank
Lab Code: RQ1312508-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQDATA\MSVOA6\DATA\100713\L0540.D\

Analysis Lot: 361935
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85-122	10/7/13 12:08	
Toluene-d8	98	87-121	10/7/13 12:08	
Dibromofluoromethane	102	89-119	10/7/13 12:08	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/8/13 00:09

Sample Name: Method Blank
 Lab Code: RQ1312571-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\100713\L0564.D\

Analysis Lot: 362079
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: NA
Date Received: NA
Date Analyzed: 10/8/13 00:09

Sample Name: Method Blank
Lab Code: RQ1312571-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100713\L0564.D\

Analysis Lot: 362079
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	10/8/13 00:09	
Toluene-d8	98	87-121	10/8/13 00:09	
Dibromofluoromethane	103	89-119	10/8/13 00:09	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/10/13 01:15

Sample Name: Method Blank
 Lab Code: RQ1312774-05

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\100913\L0656.D\

Analysis Lot: 362518
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: NA
Date Received: NA
Date Analyzed: 10/10/13 01:15

Sample Name: Method Blank
Lab Code: RQ1312774-05

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA6\DATA\100913\L0656.D\

Analysis Lot: 362518
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/10/13 01:15	
Toluene-d8	97	87-121	10/10/13 01:15	
Dibromofluoromethane	102	89-119	10/10/13 01:15	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/11/13 16:02

Sample Name: Method Blank
 Lab Code: RQ1313274-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\MSVOA6\DATA\101113\L0729.D\

Analysis Lot: 362925
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: NA
Date Received: NA
Date Analyzed: 10/11/13 16:02

Sample Name: Method Blank
Lab Code: RQ1313274-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA6\DATA\101113\L0729.D\

Analysis Lot: 362925
Instrument Name: R-MS-06
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	10/11/13 16:02	
Toluene-d8	98	87-121	10/11/13 16:02	
Dibromofluoromethane	101	89-119	10/11/13 16:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: NA
Date Received: NA
Date Analyzed: 10/15/13 10:34

Sample Name: Method Blank
Lab Code: RQ1312919-01

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1001.run

Analysis Lot: 363331
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	1.0 U	1.0	
74-85-1	Ethylene	1.0 U	1.0	
74-82-8	Methane	1.0 U	1.0	
74-98-6	Propane	1.0 U	1.0	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Collected: NA
Date Received: NA
Date Analyzed: 10/8/13 14:46

Sample Name: Method Blank
Lab Code: RQ1312396-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
Data File Name: I:\ACQU\DATA\HPLC05\DATA\100813\X0010876.D\

Analysis Lot: 362374
Instrument Name: R-HPLC-05
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	0.50	U	0.50	
64-19-7	Acetic Acid	1.0	U	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0	U	2.0	
50-21-5	Lactic Acid	1.0	U	1.0	
79-09-4	Propionic Acid	1.0	U	1.0	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/ 4/13 -
 10/15/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Lab Control Sample
 R1307396-LCS1

Analyte Name	Method	Result	Spike		% Rec	% Rec Limits
			Amount	% Rec		
Alkalinity as CaCO ₃ , Total	SM 2320 B	19.1	20.0	96	84 - 112	
Chloride	9056A	2.00	2.00	100	80 - 120	
Nitrate as Nitrogen	9056A	0.999	1.00	100	80 - 120	
Nitrite as Nitrogen	9056A	1.03	1.0	103	80 - 120	
Sulfate	9056A	1.96	2.00	98	80 - 120	
Sulfide, Acid-Soluble	9034	5.89	9.3	63	10 - 131	

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/ 9/13 -
 10/15/13

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Lab Control Sample
 R1307396-LCS2

Analyte Name	Method	Result	Spike		% Rec Limits
			Amount	% Rec	
Alkalinity as CaCO ₃ , Total	SM 2320 B	942	1000	94	84 - 112
Chloride	9056A	2.17	2.00	109	80 - 120
Nitrite as Nitrogen	9056A	0.951	1.0	95	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Analyzed: 10/18/13

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Lab Control Sample
R1307396-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010C	1050	1000	105	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/7/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 361935

Lab Control Sample
 RQ1312508-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	13.7	20.0	68	61 - 138
Benzene	19.9	20.0	100	76 - 118
Bromodichloromethane	20.7	20.0	104	79 - 123
Bromoform	23.8	20.0	119	72 - 128
Bromomethane	22.4	20.0	112	46 - 157
2-Butanone (MEK)	19.7	20.0	98	60 - 133
Carbon Disulfide	20.3	20.0	101	61 - 144
Carbon Tetrachloride	21.1	20.0	105	64 - 129
Chlorobenzene	20.5	20.0	103	80 - 121
Chloroethane	19.2	20.0	96	69 - 128
Chloroform	20.8	20.0	104	75 - 123
Chloromethane	20.9	20.0	105	55 - 139
Dibromochloromethane	22.4	20.0	112	78 - 127
1,1-Dichloroethane	19.8	20.0	99	76 - 128
1,2-Dichloroethane	20.1	20.0	100	72 - 130
1,1-Dichloroethene	24.6	20.0	123	74 - 135
cis-1,2-Dichloroethene	20.0	20.0	100	77 - 123
trans-1,2-Dichloroethene	20.9	20.0	104	72 - 120
1,2-Dichloropropane	20.2	20.0	101	80 - 119
cis-1,3-Dichloropropene	20.0	20.0	100	77 - 125
trans-1,3-Dichloropropene	20.5	20.0	103	69 - 127
Ethylbenzene	20.5	20.0	102	75 - 123
2-Hexanone	18.7	20.0	93	61 - 131
Methylene Chloride	20.9	20.0	104	73 - 122
4-Methyl-2-pentanone (MIBK)	22.2	20.0	111	61 - 132
Styrene	21.4	20.0	107	80 - 121
1,1,2,2-Tetrachloroethane	19.8	20.0	99	72 - 124
Tetrachloroethene	21.0	20.0	105	71 - 127
Toluene	20.3	20.0	102	77 - 120
1,1,1-Trichloroethane	20.8	20.0	104	67 - 121
1,1,2-Trichloroethane	21.8	20.0	109	81 - 117
Trichloroethene	20.6	20.0	103	75 - 122
Vinyl Chloride	21.3	20.0	107	68 - 139

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/ 70665-018
Sample Matrix: Water

Service Request: R1307396
Date Analyzed: 10/7/13

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 361935

Lab Control Sample
RQ1312508-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	20.5	20.0	102	77 - 131
m,p-Xylenes	42.1	40.0	105	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/7/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

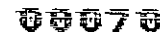
Analysis Lot: 362079

Lab Control Sample
 RQ1312571-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	17.0	20.0	85	61 - 138
Benzene	21.1	20.0	105	76 - 118
Bromodichloromethane	22.1	20.0	111	79 - 123
Bromoform	24.4	20.0	122	72 - 128
Bromomethane	23.3	20.0	116	46 - 157
2-Butanone (MEK)	20.2	20.0	101	60 - 133
Carbon Disulfide	20.9	20.0	104	61 - 144
Carbon Tetrachloride	21.2	20.0	106	64 - 129
Chlorobenzene	21.1	20.0	106	80 - 121
Chloroethane	19.7	20.0	98	69 - 128
Chloroform	21.0	20.0	105	75 - 123
Chloromethane	20.4	20.0	102	55 - 139
Dibromochloromethane	22.5	20.0	113	78 - 127
1,1-Dichloroethane	20.5	20.0	103	76 - 128
1,2-Dichloroethane	21.8	20.0	109	72 - 130
1,1-Dichloroethene	24.7	20.0	123	74 - 135
cis-1,2-Dichloroethene	20.5	20.0	102	77 - 123
trans-1,2-Dichloroethene	21.3	20.0	107	72 - 120
1,2-Dichloropropane	21.4	20.0	107	80 - 119
cis-1,3-Dichloropropene	21.0	20.0	105	77 - 125
trans-1,3-Dichloropropene	21.8	20.0	109	69 - 127
Ethylbenzene	21.0	20.0	105	75 - 123
2-Hexanone	20.0	20.0	100	61 - 131
Methylene Chloride	21.5	20.0	107	73 - 122
4-Methyl-2-pentanone (MIBK)	22.9	20.0	115	61 - 132
Styrene	22.0	20.0	110	80 - 121
1,1,2,2-Tetrachloroethane	20.3	20.0	102	72 - 124
Tetrachloroethene	20.8	20.0	104	71 - 127
Toluene	21.2	20.0	106	77 - 120
1,1,1-Trichloroethane	21.1	20.0	105	67 - 121
1,1,2-Trichloroethane	22.8	20.0	114	81 - 117
Trichloroethene	21.8	20.0	109	75 - 122
Vinyl Chloride	21.0	20.0	105	68 - 139

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/ 7/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 362079

Lab Control Sample
 RQ1312571-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	21.5	20.0	107	77 - 131
m,p-Xylenes	43.1	40.0	108	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/ 9/13 -
 10/10/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 362518

Analyte Name	Lab Control Sample RQ1312774-03			Duplicate Lab Control Sample RQ1312774-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetone	16.5	20.0	82	15.7	20.0	78	61 - 138	5	30
Benzene	20.3	20.0	101	21.8	20.0	109	76 - 118	7	30
Bromodichloromethane	21.1	20.0	106	22.4	20.0	112	79 - 123	6	30
Bromoform	23.5	20.0	117	22.1	20.0	110	72 - 128	6	30
Bromomethane	23.3	20.0	117	22.9	20.0	114	46 - 157	2	30
2-Butanone (MEK)	20.3	20.0	101	19.0	20.0	95	60 - 133	7	30
Carbon Disulfide	19.3	20.0	97	20.1	20.0	100	61 - 144	4	30
Carbon Tetrachloride	21.0	20.0	105	22.5	20.0	113	64 - 129	7	30
Chlorobenzene	18.3	20.0	91	21.2	20.0	106	80 - 121	15	30
Chloroethane	18.5	20.0	92	19.8	20.0	99	69 - 128	7	30
Chloroform	20.9	20.0	104	21.7	20.0	108	75 - 123	4	30
Chloromethane	18.9	20.0	95	20.2	20.0	101	55 - 139	7	30
Dibromochloromethane	22.9	20.0	115	21.7	20.0	108	78 - 127	6	30
1,1-Dichloroethane	20.0	20.0	100	21.1	20.0	106	76 - 128	6	30
1,2-Dichloroethane	21.6	20.0	108	21.7	20.0	108	72 - 130	<1	30
1,1-Dichloroethene	24.2	20.0	121	25.3	20.0	126	74 - 135	4	30
cis-1,2-Dichloroethene	20.6	20.0	103	21.2	20.0	106	77 - 123	3	30
trans-1,2-Dichloroethene	21.0	20.0	105	22.2	20.0	111	72 - 120	5	30
1,2-Dichloropropane	20.4	20.0	102	21.3	20.0	106	80 - 119	5	30
cis-1,3-Dichloropropene	20.5	20.0	103	21.5	20.0	108	77 - 125	5	30
trans-1,3-Dichloropropene	21.3	20.0	106	21.6	20.0	108	69 - 127	2	30
Ethylbenzene	20.4	20.0	102	21.1	20.0	106	75 - 123	4	30
2-Hexanone	20.0	20.0	100	18.0	20.0	90	61 - 131	11	30
Methylene Chloride	21.3	20.0	106	21.5	20.0	107	73 - 122	<1	30
4-Methyl-2-pentanone (MIBK)	21.9	20.0	109	21.1	20.0	106	61 - 132	4	30
Styrene	21.4	20.0	107	21.7	20.0	109	80 - 121	2	30
1,1,2,2-Tetrachloroethane	20.2	20.0	101	19.0	20.0	95	72 - 124	6	30
Tetrachloroethene	20.6	20.0	103	22.1	20.0	111	71 - 127	7	30
Toluene	20.5	20.0	102	21.7	20.0	108	77 - 120	6	30
1,1,1-Trichloroethane	20.3	20.0	102	21.8	20.0	109	67 - 121	7	30
1,1,2-Trichloroethane	22.7	20.0	114	22.6	20.0	113	81 - 117	<1	30
Trichloroethene	20.8	20.0	104	22.3	20.0	111	75 - 122	7	30
Vinyl Chloride	19.9	20.0	100	21.4	20.0	107	68 - 139	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/9/13 -
 10/10/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 362518

Analyte Name	Lab Control Sample RQ1312774-03			Duplicate Lab Control Sample RQ1312774-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
o-Xylene	20.0	20.0	100	20.7	20.0	104	77 - 131	3	30
m,p-Xylenes	42.2	40.0	106	42.9	40.0	107	77 - 124	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/11/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 362925

Lab Control Sample
 RQ1313274-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	13.2	20.0	66	61 - 138
Benzene	20.0	20.0	100	76 - 118
Bromodichloromethane	21.1	20.0	105	79 - 123
Bromoform	22.2	20.0	111	72 - 128
Bromomethane	22.3	20.0	111	46 - 157
2-Butanone (MEK)	18.8	20.0	94	60 - 133
Carbon Disulfide	20.2	20.0	101	61 - 144
Carbon Tetrachloride	20.8	20.0	104	64 - 129
Chlorobenzene	19.7	20.0	98	80 - 121
Chloroethane	18.7	20.0	93	69 - 128
Chloroform	20.2	20.0	101	75 - 123
Chloromethane	18.1	20.0	90	55 - 139
Dibromochloromethane	21.0	20.0	105	78 - 127
1,1-Dichloroethane	20.2	20.0	101	76 - 128
1,2-Dichloroethane	20.1	20.0	101	72 - 130
1,1-Dichloroethene	24.7	20.0	123	74 - 135
cis-1,2-Dichloroethene	20.2	20.0	101	77 - 123
trans-1,2-Dichloroethene	21.3	20.0	106	72 - 120
1,2-Dichloropropane	20.0	20.0	100	80 - 119
cis-1,3-Dichloropropene	19.9	20.0	100	77 - 125
trans-1,3-Dichloropropene	21.0	20.0	105	69 - 127
Ethylbenzene	19.4	20.0	97	75 - 123
2-Hexanone	17.3	20.0	86	61 - 131
Methylene Chloride	20.5	20.0	102	73 - 122
4-Methyl-2-pentanone (MIBK)	20.8	20.0	104	61 - 132
Styrene	20.6	20.0	103	80 - 121
1,1,2,2-Tetrachloroethane	18.0	20.0	90	72 - 124
Tetrachloroethene	20.9	20.0	105	71 - 127
Toluene	20.3	20.0	101	77 - 120
1,1,1-Trichloroethane	20.4	20.0	102	67 - 121
1,1,2-Trichloroethane	21.6	20.0	108	81 - 117
Trichloroethene	21.2	20.0	106	75 - 122
Vinyl Chloride	19.6	20.0	98	68 - 139

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396

Date Analyzed: 10/11/13

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 362925

Lab Control Sample
 RQ1313274-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	19.8	20.0	99	77 - 131
m,p-Xylenes	41.2	40.0	103	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396

Date Analyzed: 10/15/13

Lab Control Sample Summary
 Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L

Basis: NA

Analysis Lot: 363331

Analyte Name	Lab Control Sample RQ1312919-02			Duplicate Lab Control Sample RQ1312919-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ethane	26.1	26.1	100	26.3	26.1	101	78 - 134	<1	30
Ethylene	25.2	24.3	104	25.6	24.3	105	73 - 129	2	30
Methane	25.0	26.2	96	25.0	26.2	95	76 - 138	<1	30
Propane	24.7	25.5	97	24.7	25.5	97	73 - 134	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/ 70665-018
 Sample Matrix: Water

Service Request: R1307396
 Date Analyzed: 10/ 8/13

Lab Control Sample Summary
 Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids

Units: mg/L
 Basis: NA

Analysis Lot: 362374

Analyte Name	Lab Control Sample RQ1312396-02			Duplicate Lab Control Sample RQ1312396-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	1.04	1.00	104	1.05	1.00	105	70 - 130	<1	30
Acetic Acid	9.42	9.98	94	9.37	9.98	94	70 - 135	<1	30
Butanoic Acid (Butyric Acid)	10.3	10.0	103	10.1	10.0	101	78 - 113	2	30
Lactic Acid	10.1	10.0	101	9.96	10.0	100	70 - 117	<1	30
Propionic Acid	9.80	10.1	97	9.60	10.1	95	80 - 125	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Project Name Cooper Vision		Project Number 70665-018		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager Mark Ramsdell		Report CC mramsdell@haleyaldrich.com		PRESERVATIVE HCl															
Company/Address 200 Town Centre Dr Suite 2 Rochester, NY 14623		NUMBER OF CONTAINERS	GC/MS VOCs • 8260 • 823 • CLP GC/MS SVOCs • 8270 • 825 GC VOCs • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) Sulfate, Sulfide, Nitrate Nitrite, Nitride Alkalinity Dissolved Gases Organic Acids											PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____					
Phone # 586-490-0760				Email smckenna@haleyaldrich.com												REMARKS/ ALTERNATE DESCRIPTION			
Sampler Signature 		Sampler's Printed Name Santa McKenna																	
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE TIME		MATRIX															
OW-306	-001	10/2/13	1155	GW	3	X													166213-1655
MW-203	-002	10/3/13	1005	GW	3	X													-100313-1005
MW-.3	-003	10/3/13	1100	GW	10	X						X	X	X					2288-100313-1100
MW-202	-004	10/3/13	1105	GW	3	X													-100313-1105
MW-204	-005	10/3/13	1245	GW	3	X													-100313-1245
MW-502	-006	10/3/13	1345	GW	10	X						X	X	X					2288-100313-1345
MW-501	-007	10/3/13	1530	GW	10	X						X	X	X					2288-100313-1530
OW-302S	-008	10/3/13	1540	GW	10	X						X	X	X					2288-100313-1540
MW-205	-009	10/3/13	1640	GW	11	X						X	X	X	X				2288-100313-1640
Trip Blank	-010	9/26/13	-	AG	3	X													2288-100313-0001
SPECIAL INSTRUCTIONS/COMMENTS Metals					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day X 5 day ___ REQUESTED REPORT DATE _____					REPORT REQUIREMENTS I. Results Only X II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data					INVOICE INFORMATION PO # 70665-018 BILL TO: Accounts Payable				
See QAPP <input type="checkbox"/>																			
STATE WHERE SAMPLES WERE COLLECTED New York																			
RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY				
Printed Name					Printed Name					Printed Name					Printed Name				
Firm					Firm					Firm					Firm				
Date/Time					Date/Time					Date/Time					Date/Time				

R1307396 5
Haley & Aldrich, Inc.
Cooperation



Cooler Receipt and Preservation Check Form

10/11/13

Project/Client Competition (HAA) Folder Number R1307390

Cooler received on 10/4/13 by: AP COURIER: ALS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? ALS/ROO, CLIENT
7. Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
8. Temperature of cooler(s) upon receipt: 13°

*mw-305 (1 vial)
all sulfides +
alkalinity*

Is the temperature within 0° - 6° C?: PN Y N Y N Y N Y N

If No, Explain Below Date/Time Temperatures Taken: 10/4/13 0913

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location R-002 by AP on 10/4/13 at 0915
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: KB 10/13/13

Cooler Breakdown: Date: 10/4/13 Time: 1637 by: JFS

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
		YES	NO							
≥12	NaOH									No = Samples were preserved at lab as listed
≤2	HNO ₃	✓		BDB261306	7/14					
≤2	H ₂ SO ₄									
<4	NaHSO ₄									
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)						PM OK to Adjust:
	Na ₂ S ₂ O ₃	-	-							
	Zn Aceta	-	-	WC126045E	8/14					
	HCl	*	*							

*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet

Bottle lot numbers: _____
Other Comments: _____

PC Secondary Review: KB 10/28/13 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



April 18, 2014

Service Request No: R1402319

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision/70665-018

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on April 3, 2014. For your reference, these analyses have been assigned our service request number **R1402319**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

Page 1 of 81

Client: Haley & Aldrich of New York
Project: Coopervision #70665-018 4/14
Sample Matrix: Water

Service Request No: R1402319
Date Received: 4/3/14

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Eleven (11) water samples were collected on 4/1-2/14 by H&A and received for analysis at ALS on 4/3/14. The samples were received unbroken and consistent with the accompanying chain of custody form. The cooler temperature range upon receipt at the laboratory was 1.8-4.3°C within guidelines of 0-6°C. Alkalinity aliquots were noted as having headspace on the Cooler Receipt and Preservation Check Form.

Inorganic Parameters

Eight (8) water samples were analyzed for a client specific list of parameters: Chloride, Sulfate, Total Alkalinity, Nitrate, Nitrite, and Sulfide.

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for these samples

All holding times were met for these analyses except for the following compounds:

Nitrate for locations MW-3, MW-501, and MW-205 (ALS # R1402319-001, 006, and 009 respectively) which were re-analyzed outside of the 48 hour holding time due to poor baseline resolution in the initial analysis possibly due to high Chloride concentration. The initial results are not reported.

Nitrite for locations MW-3 and MW-502 (ALS #'s R1402319-001 and -007 respectively). The former sample was run outside the 48 hour holding time due to a laboratory error in which the sample was missed on the initial run and the latter was repeated outside of holding time. Only the repeat analysis has been reported for the -007 location due to the reason noted above for the Nitrate analysis.

The data out of holding time has been flagged as "**".

Batch QC is included in the report. All Laboratory Control Sample (LCS) recoveries were within QC limits.

Site QC was not requested on this SDG but the laboratory analyzed it on several samples for differing analyses and the MS/MSD/RPD data is included in the report. All recoveries were within acceptance limits.

All Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Organic Compounds

Eleven (11) water samples were analyzed for the TCL of Volatile Organics by GC/MS Method 8260C from SW-846. Eight (8) water samples were analyzed for Dissolved Gases by modified GC Method RSK-175 and five (5) samples were analyzed for Metabolic Acids by HPLC methodology.

All Initial and Continuing Calibration Criteria was met for all analyses except for the following 8260C CCV compounds which were > ±20% D on CCV from 4/11/14 for 4-Methyl-2-pentanone (22.7%).

Any hits in samples associated with this CCV should be considered as estimated.

Approved by Karen Bender Date 4/21/14

00002

Batch QC is included in the report. All Laboratory Control Samples (LCS) and LCS Duplicate (LCSD) recoveries were within limits for 8260C, RSK and Metabolic Acids. The Relative Percent Difference (RPD) calculations were within QC acceptance limits.

Site QC was not requested on this SDG but the laboratory analyzed 2 samples for 8260C only and the MS/MSD/RPD data is included in the report. All exceedences are flagged as "**".

Hits above the calibration range of the standards are flagged as "E" estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent dilution hits are flagged as "D".

All surrogate recoveries were within acceptance limits.

All samples were analyzed within the appropriate holding times. All vials are checked for preservation after analysis. The VOC samples were found to be preserved to a pH of <2 except for location MW-205 (ALS # R1402319-009) which had a pH of 3. This sample was run on the 9th day from collection outside the 7 day holding time for unpreserved aliquots. All ALS vials are certified as preserved. Matrix interference is suspected.

The Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by

Karen Beuhler

Date

4/21/14

000003

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1402319

<u>Lab ID</u>	<u>Client ID</u>
R1402319-001	MW-3
R1402319-002	OW-306
R1402319-003	MW-203
R1402319-004	MW-202
R1402319-005	MW-204
R1402319-006	MW-501
R1402319-007	MW-502
R1402319-008	OWS-302
R1402319-009	MW-205
R1402319-010	BAP-1
R1402319-011	BAP-2

00004



REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E Organics- Concentration has exceeded the calibration range for that specific analysis.
D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
Spike was diluted out.
+ Correlation coefficient for MSA is <0.995.
N Inorganics- Matrix spike recovery was outside laboratory limits.
N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S Concentration has been determined using Method of Standard Additions (MSA).
W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P Concentration >40% (25% for CLP) difference between the two GC columns.
C Confirmed by GC/MS
Q DoD reports: indicates a pesticide/Aroclor is not confirmed (>=100% Difference between two GC columns).
X See Case Narrative for discussion.
MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Table with 3 columns: State/Agency, ID #, and Certification #. Rows include Connecticut, Delaware, Florida, Illinois, Maine, Nebraska, Nevada, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, and Virginia.

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads -



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	3010A
200.8	ILM05.3
6010C	3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3010A
6010 SPLP (1312) extract	3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: MW-3
 Lab Code: R1402319-001

Service Request: R1402319
 Date Collected: 4/ 1/14 1330
 Date Received: 4/ 3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	230		mg/L	2.0	1	NA	4/7/14 13:15	
Chloride	9056A	458		mg/L	20	100	NA	4/3/14 16:35	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/3/14 16:25	*
Nitrite as Nitrogen	9056A	10	U	mg/L	10	100	NA	4/3/14 16:35	*
Sulfate	9056A	15.0		mg/L	2.0	10	NA	4/5/14 07:44	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/ 7/14	4/7/14 11:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1330
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 11:30

Sample Name: MW-3
 Lab Code: R1402319-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7440.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50	U	50	
71-43-2	Benzene	25	U	25	
75-27-4	Bromodichloromethane	25	U	25	
75-25-2	Bromoform	25	U	25	
74-83-9	Bromomethane	25	U	25	
78-93-3	2-Butanone (MEK)	50	U	50	
75-15-0	Carbon Disulfide	50	U	50	
56-23-5	Carbon Tetrachloride	25	U	25	
108-90-7	Chlorobenzene	25	U	25	
75-00-3	Chloroethane	990		25	
67-66-3	Chloroform	25	U	25	
74-87-3	Chloromethane	25	U	25	
124-48-1	Dibromochloromethane	25	U	25	
75-34-3	1,1-Dichloroethane	74		25	
107-06-2	1,2-Dichloroethane	25	U	25	
75-35-4	1,1-Dichloroethene	25	U	25	
156-59-2	cis-1,2-Dichloroethene	25	U	25	
156-60-5	trans-1,2-Dichloroethene	25	U	25	
78-87-5	1,2-Dichloropropane	25	U	25	
10061-01-5	cis-1,3-Dichloropropene	25	U	25	
10061-02-6	trans-1,3-Dichloropropene	25	U	25	
100-41-4	Ethylbenzene	25	U	25	
591-78-6	2-Hexanone	50	U	50	
75-09-2	Methylene Chloride	25	U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	
100-42-5	Styrene	25	U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	
127-18-4	Tetrachloroethene	25	U	25	
108-88-3	Toluene	25	U	25	
71-55-6	1,1,1-Trichloroethane	25	U	25	
79-00-5	1,1,2-Trichloroethane	25	U	25	
79-01-6	Trichloroethene	25	U	25	
75-01-4	Vinyl Chloride	83		25	
95-47-6	o-Xylene	25	U	25	
179601-23-1	m,p-Xylenes	25	U	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1330
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 11:30

Sample Name: MW-3
 Lab Code: R1402319-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7440.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	4/11/14 11:30	
Toluene-d8	96	87-121	4/11/14 11:30	
Dibromofluoromethane	95	89-119	4/11/14 11:30	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/ 1/14 1330
Date Received: 4/ 3/14
Date Analyzed: 4/11/14 09:45

Sample Name: MW-3
Lab Code: R1402319-001

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1005.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	25 U	25	
74-85-1	Ethylene	58	25	
74-82-8	Methane	1600	25	
74-98-6	Propane	25 U	25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1440
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 06:26

Sample Name: OW-306
 Lab Code: R1402319-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoal0\data\041014\F7430.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1440
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 06:26

Sample Name: OW-306
 Lab Code: R1402319-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7430.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	4/11/14 06:26	
Toluene-d8	100	87-121	4/11/14 06:26	
Dibromofluoromethane	94	89-119	4/11/14 06:26	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1540
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 06:56

Sample Name: MW-203
 Lab Code: R1402319-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7431.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	10 U	10	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	
179601-23-1	m,p-Xylenes	5.0 U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/ 1/14 1540
Date Received: 4/ 3/14
Date Analyzed: 4/11/14 06:56

Sample Name: MW-203
Lab Code: R1402319-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7431.D\

Analysis Lot: 387573
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	4/11/14 06:56	
Toluene-d8	97	87-121	4/11/14 06:56	
Dibromofluoromethane	95	89-119	4/11/14 06:56	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: MW-202
 Lab Code: R1402319-004

Service Request: R1402319
 Date Collected: 4/ 1/14 1655
 Date Received: 4/ 3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	150	mg/L	2.0	1	NA	4/7/14 13:15	
Carbon, Total Organic (TOC)	9060A	1.0 U	mg/L	1.0	1	NA	4/5/14 07:26	
Carbon, Total Organic (TOC)	9060A	1.0 U	mg/L	1.0	1	NA	4/5/14 07:56	
Carbon, Total Organic (TOC)	9060A	1.0 U	mg/L	1.0	1	NA	4/5/14 07:46	
Carbon, Total Organic (TOC)	9060A	1.0 U	mg/L	1.0	1	NA	4/5/14 07:36	
Chloride	9056A	3560	mg/L	200	1000	NA	4/3/14 15:35	
Nitrate as Nitrogen	9056A	1.7	mg/L	1.0	10	NA	4/3/14 12:09	
Nitrite as Nitrogen	9056A	100 U	mg/L	100	1000	NA	4/3/14 15:35	
Sulfate	9056A	424	mg/L	20	100	NA	4/3/14 16:56	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	4/ 7/14	4/7/14 11:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1655
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 07:27

Sample Name: MW-202
 Lab Code: R1402319-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7432.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	36		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	36		5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1655
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 07:27

Sample Name: MW-202
 Lab Code: R1402319-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7432.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	4/11/14 07:27	
Toluene-d8	99	87-121	4/11/14 07:27	
Dibromofluoromethane	96	89-119	4/11/14 07:27	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1655
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 10:08

Sample Name: MW-202
 Lab Code: R1402319-004

Units: µg/L
 Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
 Data File Name: 1007.run

Analysis Lot: 387802
 Instrument Name: R-GC-02
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	1.0 U	1.0	
74-85-1	Ethylene	1.0 U	1.0	
74-82-8	Methane	1.0 U	1.0	
74-98-6	Propane	1.0 U	1.0	

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 1/14 1655
 Date Received: 4/ 3/14
 Date Analyzed: 4/8/14 18:08

Sample Name: MW-202
 Lab Code: R1402319-004

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQUDATA\HPLC05\DATA\040814\X0011957.D\

Analysis Lot: 387325
 Instrument Name: R-HPLC-05
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	0.50 U	0.50	
64-19-7	Acetic Acid	1.0 U	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0 U	2.0	
50-21-5	Lactic Acid	1.0 U	1.0	
79-09-4	Propionic Acid	1.0 U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 0950
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 07:57

Sample Name: MW-204
 Lab Code: R1402319-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7433.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	7.4		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	9.4		5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0		5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 0950
Date Received: 4/3/14
Date Analyzed: 4/11/14 07:57

Sample Name: MW-204
Lab Code: R1402319-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7433.D\

Analysis Lot: 387573
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	4/11/14 07:57	
Toluene-d8	98	87-121	4/11/14 07:57	
Dibromofluoromethane	96	89-119	4/11/14 07:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: MW-501
 Lab Code: R1402319-006

Service Request: R1402319
 Date Collected: 4/ 2/14 11:45
 Date Received: 4/ 3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	211		mg/L	2.0	1	NA	4/7/14 13:15	
Chloride	9056A	7090		mg/L	400	2000	NA	4/3/14 14:25	
Nitrate as Nitrogen	9056A	4.0	U	mg/L	4.0	40	NA	4/5/14 07:02	*
Nitrite as Nitrogen	9056A	200	U	mg/L	200	2000	NA	4/3/14 14:25	
Sulfate	9056A	123		mg/L	4.0	20	NA	4/3/14 16:24	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/ 7/14	4/7/14 11:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1145
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 12:00

Sample Name: MW-501
 Lab Code: R1402319-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7441.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 2

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	10	U	10	
75-27-4	Bromodichloromethane	10	U	10	
75-25-2	Bromoform	10	U	10	
74-83-9	Bromomethane	10	U	10	
78-93-3	2-Butanone (MEK)	20	U	20	
75-15-0	Carbon Disulfide	20	U	20	
56-23-5	Carbon Tetrachloride	10	U	10	
108-90-7	Chlorobenzene	10	U	10	
75-00-3	Chloroethane	340		10	
67-66-3	Chloroform	10	U	10	
74-87-3	Chloromethane	10	U	10	
124-48-1	Dibromochloromethane	10	U	10	
75-34-3	1,1-Dichloroethane	63		10	
107-06-2	1,2-Dichloroethane	10	U	10	
75-35-4	1,1-Dichloroethene	10	U	10	
156-59-2	cis-1,2-Dichloroethene	10	U	10	
156-60-5	trans-1,2-Dichloroethene	10	U	10	
78-87-5	1,2-Dichloropropane	10	U	10	
10061-01-5	cis-1,3-Dichloropropene	10	U	10	
10061-02-6	trans-1,3-Dichloropropene	10	U	10	
100-41-4	Ethylbenzene	10	U	10	
591-78-6	2-Hexanone	20	U	20	
75-09-2	Methylene Chloride	10	U	10	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	
100-42-5	Styrene	10	U	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	
127-18-4	Tetrachloroethene	10	U	10	
108-88-3	Toluene	10	U	10	
71-55-6	1,1,1-Trichloroethane	10	U	10	
79-00-5	1,1,2-Trichloroethane	10	U	10	
79-01-6	Trichloroethene	10	U	10	
75-01-4	Vinyl Chloride	55		10	
95-47-6	o-Xylene	10	U	10	
179601-23-1	m,p-Xylenes	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1145
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 12:00

Sample Name: MW-501
 Lab Code: R1402319-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoal0\data\041014\F7441.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 2

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	4/11/14 12:00	
Toluene-d8	98	87-121	4/11/14 12:00	
Dibromofluoromethane	95	89-119	4/11/14 12:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1145
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 10:18

Sample Name: MW-501
 Lab Code: R1402319-006

Units: µg/L
 Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
 Data File Name: 1008.run

Analysis Lot: 387802
 Instrument Name: R-GC-02
 Dilution Factor: 200

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	200 U	200	
74-85-1	Ethylene	200 U	200	
74-82-8	Methane	10000	200	
74-98-6	Propane	200 U	200	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: MW-502
 Lab Code: R1402319-007

Service Request: R1402319
 Date Collected: 4/2/14 1410
 Date Received: 4/3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	460	mg/L	2.0	1	NA	4/7/14 13:15	
Chloride	9056A	1030	mg/L	40	200	NA	4/3/14 14:15	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	4/3/14 11:29	
Nitrite as Nitrogen	9056A	20 U	mg/L	20	200	NA	4/5/14 07:54	*
Sulfate	9056A	2.0 U	mg/L	2.0	10	NA	4/3/14 16:14	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	4/8/14	4/8/14 09:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1410
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 12:30

Sample Name: MW-502
 Lab Code: R1402319-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa10\data\041014\F7442.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 25

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	250	U	250	
71-43-2	Benzene	130	U	130	
75-27-4	Bromodichloromethane	130	U	130	
75-25-2	Bromoform	130	U	130	
74-83-9	Bromomethane	130	U	130	
78-93-3	2-Butanone (MEK)	250	U	250	
75-15-0	Carbon Disulfide	250	U	250	
56-23-5	Carbon Tetrachloride	130	U	130	
108-90-7	Chlorobenzene	130	U	130	
75-00-3	Chloroethane	4400		130	
67-66-3	Chloroform	130	U	130	
74-87-3	Chloromethane	130	U	130	
124-48-1	Dibromochloromethane	130	U	130	
75-34-3	1,1-Dichloroethane	130	U	130	
107-06-2	1,2-Dichloroethane	130	U	130	
75-35-4	1,1-Dichloroethene	130	U	130	
156-59-2	cis-1,2-Dichloroethene	130	U	130	
156-60-5	trans-1,2-Dichloroethene	130	U	130	
78-87-5	1,2-Dichloropropane	130	U	130	
10061-01-5	cis-1,3-Dichloropropene	130	U	130	
10061-02-6	trans-1,3-Dichloropropene	130	U	130	
100-41-4	Ethylbenzene	130	U	130	
591-78-6	2-Hexanone	250	U	250	
75-09-2	Methylene Chloride	130	U	130	
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250	
100-42-5	Styrene	130	U	130	
79-34-5	1,1,2,2-Tetrachloroethane	130	U	130	
127-18-4	Tetrachloroethene	130	U	130	
108-88-3	Toluene	130	U	130	
71-55-6	1,1,1-Trichloroethane	130	U	130	
79-00-5	1,1,2-Trichloroethane	130	U	130	
79-01-6	Trichloroethene	130	U	130	
75-01-4	Vinyl Chloride	360		130	
95-47-6	o-Xylene	130	U	130	
179601-23-1	m,p-Xylenes	130	U	130	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1410
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 12:30

Sample Name: MW-502
 Lab Code: R1402319-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7442.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 25

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	4/11/14 12:30	
Toluene-d8	99	87-121	4/11/14 12:30	
Dibromofluoromethane	95	89-119	4/11/14 12:30	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1410
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 10:28

Sample Name: MW-502
 Lab Code: R1402319-007

Units: µg/L
 Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
 Data File Name: 1009.run

Analysis Lot: 387802
 Instrument Name: R-GC-02
 Dilution Factor: 250

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	250 U	250	
74-85-1	Ethylene	250 U	250	
74-82-8	Methane	16000	250	
74-98-6	Propane	250 U	250	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: OWS-302
 Lab Code: R1402319-008

Service Request: R1402319
 Date Collected: 4/2/14 1510
 Date Received: 4/3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	749	mg/L	2.0	1	NA	4/7/14 13:15	
Chloride	9056A	2790	mg/L	200	1000	NA	4/3/14 14:45	
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	NA	4/3/14 11:49	
Nitrite as Nitrogen	9056A	100 U	mg/L	100	1000	NA	4/3/14 14:45	
Sulfate	9056A	2.4	mg/L	2.0	10	NA	4/3/14 16:35	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	4/8/14	4/8/14 09:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1510
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 09:28

Sample Name: OWS-302
 Lab Code: R1402319-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7436.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 250

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	2500	U	2500	
71-43-2	Benzene	1300	U	1300	
75-27-4	Bromodichloromethane	1300	U	1300	
75-25-2	Bromoform	1300	U	1300	
74-83-9	Bromomethane	1300	U	1300	
78-93-3	2-Butanone (MEK)	2500	U	2500	
75-15-0	Carbon Disulfide	2500	U	2500	
56-23-5	Carbon Tetrachloride	1300	U	1300	
108-90-7	Chlorobenzene	1300	U	1300	
75-00-3	Chloroethane	29000		1300	
67-66-3	Chloroform	1300	U	1300	
74-87-3	Chloromethane	1300	U	1300	
124-48-1	Dibromochloromethane	1300	U	1300	
75-34-3	1,1-Dichloroethane	1300	U	1300	
107-06-2	1,2-Dichloroethane	1300	U	1300	
75-35-4	1,1-Dichloroethene	1300	U	1300	
156-59-2	cis-1,2-Dichloroethene	1300	U	1300	
156-60-5	trans-1,2-Dichloroethene	1300	U	1300	
78-87-5	1,2-Dichloropropane	1300	U	1300	
10061-01-5	cis-1,3-Dichloropropene	1300	U	1300	
10061-02-6	trans-1,3-Dichloropropene	1300	U	1300	
100-41-4	Ethylbenzene	1300	U	1300	
591-78-6	2-Hexanone	2500	U	2500	
75-09-2	Methylene Chloride	1300	U	1300	
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	U	2500	
100-42-5	Styrene	1300	U	1300	
79-34-5	1,1,2,2-Tetrachloroethane	1300	U	1300	
127-18-4	Tetrachloroethene	1300	U	1300	
108-88-3	Toluene	1300	U	1300	
71-55-6	1,1,1-Trichloroethane	1300	U	1300	
79-00-5	1,1,2-Trichloroethane	1300	U	1300	
79-01-6	Trichloroethene	1300	U	1300	
75-01-4	Vinyl Chloride	1300	U	1300	
95-47-6	o-Xylene	1300	U	1300	
179601-23-1	m,p-Xylenes	1300	U	1300	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1510
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 09:28

Sample Name: OWS-302
 Lab Code: R1402319-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7436.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 250

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	4/11/14 09:28	
Toluene-d8	100	87-121	4/11/14 09:28	
Dibromofluoromethane	95	89-119	4/11/14 09:28	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1510
Date Received: 4/3/14
Date Analyzed: 4/11/14 10:50

Sample Name: OWS-302
Lab Code: R1402319-008

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1011.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 100

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	100 U	100	
74-85-1	Ethylene	100 U	100	
74-82-8	Methane	8800	100	
74-98-6	Propane	100 U	100	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: MW-205
 Lab Code: R1402319-009

Service Request: R1402319
 Date Collected: 4/2/14 1555
 Date Received: 4/3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	3150	mg/L	2.0	1	NA	4/7/14 18:00	
Chloride	9056A	760	mg/L	40	200	NA	4/3/14 15:15	
Nitrate as Nitrogen	9056A	4.0 U	mg/L	4.0	40	NA	4/5/14 07:34	*
Nitrite as Nitrogen	9056A	20 U	mg/L	20	200	NA	4/3/14 15:15	
Sulfate	9056A	9.3	mg/L	2.0	10	NA	4/3/14 16:45	
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	4/8/14	4/8/14 09:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1555
 Date Received: 4/3/14
 Date Analyzed: 4/11/14 09:59

Sample Name: MW-205
 Lab Code: R1402319-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7437.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 2000

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20000	U	20000	
71-43-2	Benzene	10000	U	10000	
75-27-4	Bromodichloromethane	10000	U	10000	
75-25-2	Bromoform	10000	U	10000	
74-83-9	Bromomethane	10000	U	10000	
78-93-3	2-Butanone (MEK)	20000	U	20000	
75-15-0	Carbon Disulfide	20000	U	20000	
56-23-5	Carbon Tetrachloride	10000	U	10000	
108-90-7	Chlorobenzene	10000	U	10000	
75-00-3	Chloroethane	10000	U	10000	
67-66-3	Chloroform	10000	U	10000	
74-87-3	Chloromethane	10000	U	10000	
124-48-1	Dibromochloromethane	10000	U	10000	
75-34-3	1,1-Dichloroethane	220000		10000	
107-06-2	1,2-Dichloroethane	10000	U	10000	
75-35-4	1,1-Dichloroethene	10000	U	10000	
156-59-2	cis-1,2-Dichloroethene	10000	U	10000	
156-60-5	trans-1,2-Dichloroethene	10000	U	10000	
78-87-5	1,2-Dichloropropane	10000	U	10000	
10061-01-5	cis-1,3-Dichloropropene	10000	U	10000	
10061-02-6	trans-1,3-Dichloropropene	10000	U	10000	
100-41-4	Ethylbenzene	10000	U	10000	
591-78-6	2-Hexanone	20000	U	20000	
75-09-2	Methylene Chloride	10000	U	10000	
108-10-1	4-Methyl-2-pentanone (MIBK)	20000	U	20000	
100-42-5	Styrene	10000	U	10000	
79-34-5	1,1,2,2-Tetrachloroethane	10000	U	10000	
127-18-4	Tetrachloroethene	10000	U	10000	
108-88-3	Toluene	10000	U	10000	
71-55-6	1,1,1-Trichloroethane	75000		10000	
79-00-5	1,1,2-Trichloroethane	10000	U	10000	
79-01-6	Trichloroethene	10000	U	10000	
75-01-4	Vinyl Chloride	10000	U	10000	
95-47-6	o-Xylene	10000	U	10000	
179601-23-1	m,p-Xylenes	10000	U	10000	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1555
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 09:59

Sample Name: MW-205
 Lab Code: R1402319-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7437.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 2000

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	4/11/14 09:59	
Toluene-d8	98	87-121	4/11/14 09:59	
Dibromofluoromethane	95	89-119	4/11/14 09:59	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1555
Date Received: 4/3/14
Date Analyzed: 4/11/14 11:00

Sample Name: MW-205
Lab Code: R1402319-009

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1012.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 20

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	20 U	20	
74-85-1	Ethylene	20 U	20	
74-82-8	Methane	2100 E	20	
74-98-6	Propane	20 U	20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1555
Date Received: 4/3/14
Date Analyzed: 4/11/14 11:30

Sample Name: MW-205
Lab Code: R1402319-009
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1014.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	25 U	25	
74-85-1	Ethylene	25 U	25	
74-82-8	Methane	2200 D	25	
74-98-6	Propane	25 U	25	

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1555
 Date Received: 4/ 3/14
 Date Analyzed: 4/8/14 18:44

Sample Name: MW-205
 Lab Code: R1402319-009

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQU\DATA\HPLC05\DATA\040814\X0011958.D\

Analysis Lot: 387325
 Instrument Name: R-HPLC-05
 Dilution Factor: 100

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	50 U	50	
64-19-7	Acetic Acid	850	100	
107-92-6	Butanoic Acid (Butyric Acid)	2100	200	
50-21-5	Lactic Acid	100 U	100	
79-09-4	Propionic Acid	1000	100	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: BAP-1
 Lab Code: R1402319-010

Service Request: R1402319
 Date Collected: 4/ 2/14 1735
 Date Received: 4/ 3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	230		mg/L	2.0	1	NA	4/7/14 13:15	
Carbon, Total Organic (TOC)	9060A	6.2		mg/L	1.0	1	NA	4/5/14 08:07	
Carbon, Total Organic (TOC)	9060A	6.0		mg/L	1.0	1	NA	4/5/14 08:36	
Carbon, Total Organic (TOC)	9060A	5.8		mg/L	1.0	1	NA	4/5/14 08:26	
Carbon, Total Organic (TOC)	9060A	5.8		mg/L	1.0	1	NA	4/5/14 08:16	
Chloride	9056A	406		mg/L	20	100	NA	4/3/14 15:45	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/3/14 12:40	
Nitrite as Nitrogen	9056A	10	U	mg/L	10	100	NA	4/3/14 15:45	
Sulfate	9056A	328		mg/L	20	100	NA	4/3/14 17:07	
Sulfide, Acid-Soluble	9034	1.5		mg/L	1.0	1	4/ 8/14	4/8/14 09:35	

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1735
 Date Received: 4/ 3/14
 Date Analyzed: 4/11/14 10:29

Sample Name: BAP-1
 Lab Code: R1402319-010

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvov10\data\041014\F7438.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	100	U	100	
71-43-2	Benzene	50	U	50	
75-27-4	Bromodichloromethane	50	U	50	
75-25-2	Bromoform	50	U	50	
74-83-9	Bromomethane	50	U	50	
78-93-3	2-Butanone (MEK)	100	U	100	
75-15-0	Carbon Disulfide	100	U	100	
56-23-5	Carbon Tetrachloride	50	U	50	
108-90-7	Chlorobenzene	50	U	50	
75-00-3	Chloroethane	160		50	
67-66-3	Chloroform	50	U	50	
74-87-3	Chloromethane	50	U	50	
124-48-1	Dibromochloromethane	50	U	50	
75-34-3	1,1-Dichloroethane	1300		50	
107-06-2	1,2-Dichloroethane	50	U	50	
75-35-4	1,1-Dichloroethene	2100	E	50	
156-59-2	cis-1,2-Dichloroethene	50	U	50	
156-60-5	trans-1,2-Dichloroethene	50	U	50	
78-87-5	1,2-Dichloropropane	50	U	50	
10061-01-5	cis-1,3-Dichloropropene	50	U	50	
10061-02-6	trans-1,3-Dichloropropene	50	U	50	
100-41-4	Ethylbenzene	50	U	50	
591-78-6	2-Hexanone	100	U	100	
75-09-2	Methylene Chloride	50	U	50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	
100-42-5	Styrene	50	U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
127-18-4	Tetrachloroethene	50	U	50	
108-88-3	Toluene	50	U	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
79-00-5	1,1,2-Trichloroethane	50	U	50	
79-01-6	Trichloroethene	50	U	50	
75-01-4	Vinyl Chloride	65		50	
95-47-6	o-Xylene	50	U	50	
179601-23-1	m,p-Xylenes	50	U	50	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/ 2/14 1735
Date Received: 4/ 3/14
Date Analyzed: 4/11/14 10:29

Sample Name: BAP-1
Lab Code: R1402319-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\041014\F7438.D\

Analysis Lot: 387573
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	4/11/14 10:29	
Toluene-d8	99	87-121	4/11/14 10:29	
Dibromofluoromethane	96	89-119	4/11/14 10:29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14 1735
 Date Received: 4/3/14
 Date Analyzed: 4/14/14 17:13

Sample Name: BAP-1
 Lab Code: R1402319-010
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041414\F7506.D\

Analysis Lot: 388014
 Instrument Name: R-MS-10
 Dilution Factor: 20

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
71-43-2	Benzene	100	U	100	
75-27-4	Bromodichloromethane	100	U	100	
75-25-2	Bromoform	100	U	100	
74-83-9	Bromomethane	100	U	100	
78-93-3	2-Butanone (MEK)	200	U	200	
75-15-0	Carbon Disulfide	200	U	200	
56-23-5	Carbon Tetrachloride	100	U	100	
108-90-7	Chlorobenzene	100	U	100	
75-00-3	Chloroethane	200	D	100	
67-66-3	Chloroform	100	U	100	
74-87-3	Chloromethane	100	U	100	
124-48-1	Dibromochloromethane	100	U	100	
75-34-3	1,1-Dichloroethane	1400	D	100	
107-06-2	1,2-Dichloroethane	100	U	100	
75-35-4	1,1-Dichloroethene	2300	D	100	
156-59-2	cis-1,2-Dichloroethene	100	U	100	
156-60-5	trans-1,2-Dichloroethene	100	U	100	
78-87-5	1,2-Dichloropropane	100	U	100	
10061-01-5	cis-1,3-Dichloropropene	100	U	100	
10061-02-6	trans-1,3-Dichloropropene	100	U	100	
100-41-4	Ethylbenzene	100	U	100	
591-78-6	2-Hexanone	200	U	200	
75-09-2	Methylene Chloride	100	U	100	
108-10-1	4-Methyl-2-pentanone (MIBK)	200	U	200	
100-42-5	Styrene	100	U	100	
79-34-5	1,1,2,2-Tetrachloroethane	100	U	100	
127-18-4	Tetrachloroethene	100	U	100	
108-88-3	Toluene	100	U	100	
71-55-6	1,1,1-Trichloroethane	100	U	100	
79-00-5	1,1,2-Trichloroethane	100	U	100	
79-01-6	Trichloroethene	100	U	100	
75-01-4	Vinyl Chloride	100	U	100	
95-47-6	o-Xylene	100	U	100	
179601-23-1	m,p-Xylenes	100	U	100	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1735
Date Received: 4/3/14
Date Analyzed: 4/14/14 17:13

Sample Name: BAP-1
Lab Code: R1402319-010
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\041414\F7506.D\

Analysis Lot: 388014
Instrument Name: R-MS-10
Dilution Factor: 20

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/14/14 17:13	
Toluene-d8	98	87-121	4/14/14 17:13	
Dibromofluoromethane	97	89-119	4/14/14 17:13	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/ 2/14 1735
Date Received: 4/ 3/14
Date Analyzed: 4/11/14 11:51

Sample Name: BAP-1
Lab Code: R1402319-010

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1015.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	1.1		1.0	
74-85-1	Ethylene	7.2		1.0	
74-82-8	Methane	270	E	1.0	
74-98-6	Propane	1.0	U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1735
Date Received: 4/3/14
Date Analyzed: 4/11/14 12:01

Sample Name: BAP-1
Lab Code: R1402319-010
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1016.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	5.0	U	5.0	
74-85-1	Ethylene	7.4		5.0	
74-82-8	Methane	330	D	5.0	
74-98-6	Propane	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1735
 Date Received: 4/ 3/14
 Date Analyzed: 4/8/14 19:21

Sample Name: BAP-1
 Lab Code: R1402319-010

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQU\DATA\HPLC05\DATA\040814\X0011959.D\

Analysis Lot: 387325
 Instrument Name: R-HPLC-05
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	0.50	U	0.50	
64-19-7	Acetic Acid	7.3		1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0	U	2.0	
50-21-5	Lactic Acid	1.0	U	1.0	
79-09-4	Propionic Acid	6.5		1.0	

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: BAP-2
 Lab Code: R1402319-011

Service Request: R1402319
 Date Collected: 4/ 2/14 1850
 Date Received: 4/ 3/14

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	260		mg/L	2.0	1	NA	4/7/14 13:15	
Carbon, Total Organic (TOC)	9060A	14.8		mg/L	1.0	1	NA	4/5/14 08:47	
Carbon, Total Organic (TOC)	9060A	14.1		mg/L	1.0	1	NA	4/5/14 09:17	
Carbon, Total Organic (TOC)	9060A	14.5		mg/L	1.0	1	NA	4/5/14 09:07	
Carbon, Total Organic (TOC)	9060A	14.4		mg/L	1.0	1	NA	4/5/14 08:57	
Chloride	9056A	434		mg/L	20	100	NA	4/3/14 16:15	
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/3/14 12:50	
Nitrite as Nitrogen	9056A	10	U	mg/L	10	100	NA	4/3/14 16:15	
Sulfate	9056A	64.9		mg/L	2.0	10	NA	4/3/14 17:17	
Sulfide, Acid-Soluble	9034	1.4		mg/L	1.0	1	4/ 8/14	4/8/14 09:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1850
 Date Received: 4/ 3/14
 Date Analyzed: 4/14/14 17:43

Sample Name: BAP-2
 Lab Code: R1402319-011

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041414\F7507.D\

Analysis Lot: 388014
 Instrument Name: R-MS-10
 Dilution Factor: 2

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	10	U	10	
75-27-4	Bromodichloromethane	10	U	10	
75-25-2	Bromoform	10	U	10	
74-83-9	Bromomethane	10	U	10	
78-93-3	2-Butanone (MEK)	20	U	20	
75-15-0	Carbon Disulfide	20	U	20	
56-23-5	Carbon Tetrachloride	10	U	10	
108-90-7	Chlorobenzene	10	U	10	
75-00-3	Chloroethane	12		10	
67-66-3	Chloroform	10	U	10	
74-87-3	Chloromethane	10	U	10	
124-48-1	Dibromochloromethane	10	U	10	
75-34-3	1,1-Dichloroethane	250		10	
107-06-2	1,2-Dichloroethane	10	U	10	
75-35-4	1,1-Dichloroethene	180		10	
156-59-2	cis-1,2-Dichloroethene	10	U	10	
156-60-5	trans-1,2-Dichloroethene	10	U	10	
78-87-5	1,2-Dichloropropane	10	U	10	
10061-01-5	cis-1,3-Dichloropropene	10	U	10	
10061-02-6	trans-1,3-Dichloropropene	10	U	10	
100-41-4	Ethylbenzene	10	U	10	
591-78-6	2-Hexanone	20	U	20	
75-09-2	Methylene Chloride	10	U	10	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U	20	
100-42-5	Styrene	10	U	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	
127-18-4	Tetrachloroethene	10	U	10	
108-88-3	Toluene	10	U	10	
71-55-6	1,1,1-Trichloroethane	19		10	
79-00-5	1,1,2-Trichloroethane	10	U	10	
79-01-6	Trichloroethene	10	U	10	
75-01-4	Vinyl Chloride	10	U	10	
95-47-6	o-Xylene	10	U	10	
179601-23-1	m,p-Xylenes	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1850
Date Received: 4/3/14
Date Analyzed: 4/14/14 17:43

Sample Name: BAP-2
Lab Code: R1402319-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\041414\F7507.D\

Analysis Lot: 388014
Instrument Name: R-MS-10
Dilution Factor: 2

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	4/14/14 17:43	
Toluene-d8	96	87-121	4/14/14 17:43	
Dibromofluoromethane	99	89-119	4/14/14 17:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: 4/2/14 1850
Date Received: 4/3/14
Date Analyzed: 4/11/14 12:12

Sample Name: BAP-2
Lab Code: R1402319-011

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1017.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	7.2	1.0	
74-85-1	Ethylene	2.0	1.0	
74-82-8	Methane	61	1.0	
74-98-6	Propane	2.4	1.0	

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/ 2/14 1850
 Date Received: 4/ 3/14
 Date Analyzed: 4/8/14 19:58

Sample Name: BAP-2
 Lab Code: R1402319-011

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQUATA\HPLC05\DATA\040814\X0011960.D\

Analysis Lot: 387325
 Instrument Name: R-HPLC-05
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	0.50 U	0.50	
64-19-7	Acetic Acid	9.7	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0 U	2.0	
50-21-5	Lactic Acid	1.0 U	1.0	
79-09-4	Propionic Acid	1.6	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1402319-MB1

Service Request: R1402319
 Date Collected: NA
 Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1	NA	4/7/14 13:15	
Carbon, Total Organic (TOC)	9060A	1.0	U	mg/L	1.0	1	NA	4/4/14 19:01	
Carbon, Total Organic (TOC)	9060A	1.0	U	mg/L	1.0	1	NA	4/4/14 18:51	
Carbon, Total Organic (TOC)	9060A	1.0	U	mg/L	1.0	1	NA	4/4/14 18:41	
Carbon, Total Organic (TOC)	9060A	1.0	U	mg/L	1.0	1	NA	4/4/14 18:31	
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	4/3/14 11:09	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/3/14 11:09	
Nitrite as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/3/14 11:09	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	4/3/14 15:50	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/ 7/14	4/7/14 11:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water
 Sample Name: Method Blank
 Lab Code: R1402319-MB2

Service Request: R1402319
 Date Collected: NA
 Date Received: NA
 Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1	NA	4/7/14 18:00	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/5/14 02:43	
Nitrite as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/5/14 02:43	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	4/5/14 02:43	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/ 8/14	4/8/14 09:35	

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/11/14 04:24

Sample Name: Method Blank
 Lab Code: RQ1403576-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7426.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/11/14 04:24

Sample Name: Method Blank
 Lab Code: RQ1403576-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\msvoa10\data\041014\F7426.D\

Analysis Lot: 387573
 Instrument Name: R-MS-10
 Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	4/11/14 04:24	
Toluene-d8	99	87-121	4/11/14 04:24	
Dibromofluoromethane	96	89-119	4/11/14 04:24	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/14/14 12:08

Sample Name: Method Blank
 Lab Code: RQ1403634-01

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUATA\msvoa10\data\041414\F7496.D\

Analysis Lot: 388014
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: NA
Date Received: NA
Date Analyzed: 4/14/14 12:08

Sample Name: Method Blank
Lab Code: RQ1403634-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\msvoa10\data\041414\F7496.D\

Analysis Lot: 388014
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	4/14/14 12:08	
Toluene-d8	99	87-121	4/14/14 12:08	
Dibromofluoromethane	95	89-119	4/14/14 12:08	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-018
Sample Matrix: Water

Service Request: R1402319
Date Collected: NA
Date Received: NA
Date Analyzed: 4/11/14 08:52

Sample Name: Method Blank
Lab Code: RQ1403492-01

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: 1002.run

Analysis Lot: 387802
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	1.0 U	1.0	
74-85-1	Ethylene	1.0 U	1.0	
74-82-8	Methane	1.0 U	1.0	
74-98-6	Propane	1.0 U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/8/14 01:48

Sample Name: Method Blank
 Lab Code: RQ1403348-01

Units: mg/L
 Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids
 Data File Name: I:\ACQU\DATA\HPLC05\DATA\040814\X0011945.D\

Analysis Lot: 387325
 Instrument Name: R-HPLC-05
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	0.50 U	0.50	
64-19-7	Acetic Acid	1.0 U	1.0	
107-92-6	Butanoic Acid (Butyric Acid)	2.0 U	2.0	
50-21-5	Lactic Acid	1.0 U	1.0	
79-09-4	Propionic Acid	1.0 U	1.0	

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/1/14
 Date Received: 4/3/14
 Date Analyzed: 4/7/14

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-202
 Lab Code: R1402319-004

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	Sample Result	MW-202DUP Duplicate Sample		RPD	RPD Limit
				R1402319-004DUP	Average		
Sulfide, Acid-Soluble	9034	1.0	1.0 U	1.0 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/1/14
 Date Received: 4/3/14
 Date Analyzed: 4/3/14 -
 4/7/14

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: MW-202
 Lab Code: R1402319-004

Units: mg/L
 Basis: NA

MW-202MS
 Matrix Spike
 R1402319-004MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Sulfide, Acid-Soluble	9034	ND	5.2	8.6	61	10 - 106

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/1/14
 Date Received: 4/3/14
 Date Analyzed: 4/3/14 -
 4/7/14

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: MW-202
 Lab Code: R1402319-004

Units: mg/L
 Basis: NA

Analyte Name	Method	Sample Result	MW-202MS Matrix Spike R1402319-004MS			MW-202DMS Duplicate Matrix Spike R1402319-004DMS			% Rec Limits	RPD	RPD Limit
			Result	Amount	% Rec	Result	Amount	% Rec			
Nitrate as Nitrogen	9056A	1.7	10.1	10.0	84	9.8	10.0	81	80 - 120	3	15

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/5/14

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: MW-501
 Lab Code: R1402319-006
 Analytical Method: 9056A

Units: mg/L
 Basis: NA

Analyte Name	Sample Result	MW-501MS Matrix Spike R1402319-006MS			MW-501DMS Duplicate Matrix Spike R1402319-006DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Nitrate as Nitrogen	ND	39.9	40.0	100	39.9	40.0	100	80 - 120	<1	15

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/ 7/14 -
 4/ 8/14

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-502
 Lab Code: R1402319-007

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	Sample Result	MW-502DUP Duplicate Sample		RPD	RPD Limit
				R1402319-007DUP Result	Average		
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	460	460	460	<1	20
Sulfide, Acid-Soluble	9034	1.0	1.0 U	1.0 U	NC	NC	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/7/14 -
 4/8/14

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: MW-502
 Lab Code: R1402319-007

Units: mg/L
 Basis: NA

Analyte Name	Method	Sample Result	MW-502MS Matrix Spike R1402319-007MS		% Rec	% Rec Limits
			Result	Spike Amount		
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	460	645	200	92	81 - 110
Sulfide, Acid-Soluble	9034	ND	4.7	8.2	57	10 - 106

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/3/14

Matrix Spike Summary
 General Chemistry Parameters

Sample Name: OWS-302
 Lab Code: R1402319-008
 Analytical Method: 9056A

Units: mg/L
 Basis: NA

Analyte Name	Sample Result	OWS-302MS Matrix Spike R1402319-008MS			OWS-302DMS Duplicate Matrix Spike R1402319-008DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chloride	2790	4600	2000	91	4660	2000	94	80 - 120	1	15
Nitrite as Nitrogen	ND	930	1000	93	950	1000	95	80 - 120	2	15

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/11/14

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: MW-502
 Lab Code: R1402319-007
 Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analyte Name	Sample Result	MW-502MS Matrix Spike RQ1403576-05			MW-502DMS Duplicate Matrix Spike RQ1403576-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetone	ND	963	1250	77	1010	1250	81	47 - 154	5	30
Benzene	ND	1220	1250	97	1410	1250	113	84 - 120	15	30
Bromodichloromethane	ND	1180	1250	94	1320	1250	106	76 - 127	11	30
Bromoform	ND	1150	1250	92	1260	1250	101	58 - 133	9	30
Bromomethane	ND	1170	1250	93	1440	1250	115	33 - 154	21	30
2-Butanone (MEK)	ND	1180	1250	94	1200	1250	96	55 - 133	2	30
Carbon Disulfide	ND	1140	1250	92	1260	1250	101	37 - 152	9	30
Carbon Tetrachloride	ND	1090	1250	87	1350	1250	108	71 - 135	22	30
Chlorobenzene	ND	1120	1250	90	1300	1250	104	80 - 125	15	30
Chloroethane	4400	4910	1250	42 *	4850	1250	38 *	72 - 140	1	30
Chloroform	ND	1110	1250	88	1270	1250	102	76 - 128	14	30
Chloromethane	ND	1010	1250	81	1220	1250	97	56 - 147	19	30
Dibromochloromethane	ND	1190	1250	95	1300	1250	104	71 - 128	9	30
1,1-Dichloroethane	ND	1160	1250	92	1340	1250	107	74 - 132	15	30
1,2-Dichloroethane	ND	1070	1250	86	1170	1250	93	72 - 132	9	30
1,1-Dichloroethene	ND	1230	1250	99	1570	1250	125	72 - 125	24	30
cis-1,2-Dichloroethene	ND	1140	1250	91	1310	1250	105	72 - 133	14	30
trans-1,2-Dichloroethene	ND	1140	1250	91	1350	1250	108	77 - 125	17	30
1,2-Dichloropropane	ND	1260	1250	100	1400	1250	112	85 - 121	11	30
cis-1,3-Dichloropropene	ND	1220	1250	98	1380	1250	110	71 - 120	12	30
trans-1,3-Dichloropropene	ND	1250	1250	100	1390	1250	111	66 - 118	11	30
Ethylbenzene	ND	1130	1250	90	1370	1250	110	80 - 126	19	30
2-Hexanone	ND	1180	1250	95	1210	1250	97	60 - 134	2	30
Methylene Chloride	ND	1170	1250	94	1320	1250	106	75 - 121	12	30
4-Methyl-2-pentanone (MIBK)	ND	1360	1250	109	1380	1250	111	60 - 138	2	30
Styrene	ND	1180	1250	94	1380	1250	110	49 - 144	16	30
1,1,2,2-Tetrachloroethane	ND	1220	1250	98	1330	1250	106	72 - 122	9	30
Tetrachloroethene	ND	1120	1250	89	1380	1250	110	78 - 130	21	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/11/14

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: MW-502
 Lab Code: R1402319-007
 Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analyte Name	Sample Result	MW-502MS Matrix Spike RQ1403576-05			MW-502DMS Duplicate Matrix Spike RQ1403576-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Toluene	ND	1170	1250	94	1380	1250	111	74 - 130	16	30
1,1,1-Trichloroethane	ND	1050	1250	84	1270	1250	102	74 - 127	19	30
1,1,2-Trichloroethane	ND	1280	1250	103	1370	1250	109	82 - 115	6	30
Trichloroethene	ND	1160	1250	93	1370	1250	110	68 - 135	16	30
Vinyl Chloride	360	1380	1250	82	1610	1250	100	72 - 148	15	30
o-Xylene	ND	1180	1250	94	1380	1250	111	76 - 126	16	30
m,p-Xylenes	ND	2330	2500	93	2810	2500	113	70 - 135	19	30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/14/14

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: BAP-1
 Lab Code: R1402319-010
 Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analyte Name	Sample Result	BAP-1MS Matrix Spike RQ1403634-05			BAP-1DMS Duplicate Matrix Spike RQ1403634-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetone	ND	954	1000	95	985	1000	98	47 - 154	3	30
Benzene	ND	1160	1000	116	1190	1000	119	84 - 120	2	30
Bromodichloromethane	ND	1040	1000	104	1100	1000	110	76 - 127	6	30
Bromoform	ND	864	1000	86	913	1000	91	58 - 133	6	30
Bromomethane	ND	678	1000	68	828	1000	83	33 - 154	20	30
2-Butanone (MEK)	ND	1090	1000	109	1090	1000	109	55 - 133	<1	30
Carbon Disulfide	ND	983	1000	98	1030	1000	103	37 - 152	4	30
Carbon Tetrachloride	ND	1040	1000	104	1090	1000	109	71 - 135	5	30
Chlorobenzene	ND	1060	1000	106	1070	1000	107	80 - 125	1	30
Chloroethane	200	1230	1000	103	1230	1000	103	72 - 140	<1	30
Chloroform	ND	1120	1000	112	1120	1000	112	76 - 128	<1	30
Chloromethane	ND	1090	1000	109	1110	1000	111	56 - 147	1	30
Dibromochloromethane	ND	932	1000	93	992	1000	99	71 - 128	6	30
1,1-Dichloroethane	1400	2580	1000	115	2580	1000	115	74 - 132	<1	30
1,2-Dichloroethane	ND	1010	1000	101	1030	1000	103	72 - 132	1	30
1,1-Dichloroethene	2300	3660	1000	132 *	3670	1000	133 *	72 - 125	<1	30
cis-1,2-Dichloroethene	ND	1150	1000	115	1140	1000	114	72 - 133	<1	30
trans-1,2-Dichloroethene	ND	1170	1000	117	1180	1000	118	77 - 125	<1	30
1,2-Dichloropropane	ND	1190	1000	119	1240	1000	124 *	85 - 121	4	30
cis-1,3-Dichloropropene	ND	1010	1000	101	1070	1000	107	71 - 120	6	30
trans-1,3-Dichloropropene	ND	1030	1000	103	1080	1000	108	66 - 118	4	30
Ethylbenzene	ND	1100	1000	110	1120	1000	112	80 - 126	2	30
2-Hexanone	ND	1020	1000	102	1050	1000	105	60 - 134	3	30
Methylene Chloride	ND	1160	1000	116	1160	1000	116	75 - 121	<1	30
4-Methyl-2-pentanone (MIBK)	ND	1160	1000	116	1230	1000	123	60 - 138	6	30
Styrene	ND	1100	1000	110	1110	1000	111	49 - 144	<1	30
1,1,2,2-Tetrachloroethane	ND	974	1000	97	1040	1000	104	72 - 122	6	30
Tetrachloroethene	ND	1070	1000	107	1100	1000	110	78 - 130	3	30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Collected: 4/2/14
 Date Received: 4/3/14
 Date Analyzed: 4/14/14

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: BAP-1
 Lab Code: R1402319-010
 Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analyte Name	Sample Result	BAP-1MS Matrix Spike RQ1403634-05			BAP-1DMS Duplicate Matrix Spike RQ1403634-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Toluene	ND	1140	1000	114	1180	1000	118	74 - 130	4	30
1,1,1-Trichloroethane	ND	1090	1000	109	1110	1000	111	74 - 127	2	30
1,1,2-Trichloroethane.	ND	1150	1000	115	1180	1000	118 *	82 - 115	3	30
Trichloroethene	ND	1140	1000	114	1180	1000	118	68 - 135	3	30
Vinyl Chloride	ND	1190	1000	119	1210	1000	121	72 - 148	1	30
o-Xylene	ND	1120	1000	112	1140	1000	114	76 - 126	2	30
m,p-Xylenes	ND	2250	2000	113	2310	2000	116	70 - 135	3	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/ 3/14 -
 4/ 7/14

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Lab Control Sample
 R1402319-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	18.8	20.0	94	84 - 112
Carbon, Total Organic (TOC)	9060A	9.84	10.0	98	86 - 117
Carbon, Total Organic (TOC)	9060A	9.70	10.0	97	86 - 117
Carbon, Total Organic (TOC)	9060A	9.95	10.0	99	86 - 117
Carbon, Total Organic (TOC)	9060A	10.0	10.0	100	86 - 117
Chloride	9056A	2.02	2.00	101	80 - 120
Nitrate as Nitrogen	9056A	0.995	1.00	99	80 - 120
Nitrite as Nitrogen	9056A	1.00	1.0	100	80 - 120
Sulfate	9056A	2.05	2.00	102	80 - 120
Sulfide, Acid-Soluble	9034	6.21	8.6	72	10 - 131

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/ 5/14 -
 4/ 8/14

Lab Control Sample Summary
 General Chemistry Parameters

Units: mg/L
 Basis: NA

Analyte Name	Method	Lab Control Sample R1402319-LCS2			% Rec Limits
		Result	Spike Amount	% Rec	
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	898	1000	90	84 - 112
Nitrate as Nitrogen	9056A	0.990	1.00	99	80 - 120
Nitrite as Nitrogen	9056A	1.03	1.0	103	80 - 120
Sulfate	9056A	1.96	2.00	98	80 - 120
Sulfide, Acid-Soluble	9034	5.17	8.2	63	10 - 131

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/11/14

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 387573

Lab Control Sample
 RQ1403576-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	22.4	20.0	112	61 - 138
Benzene	20.6	20.0	103	76 - 118
Bromodichloromethane	20.4	20.0	102	79 - 123
Bromoform	22.5	20.0	112	72 - 128
Bromomethane	26.4	20.0	132	46 - 157
2-Butanone (MEK)	23.3	20.0	116	60 - 133
Carbon Disulfide	18.5	20.0	92	61 - 144
Carbon Tetrachloride	17.7	20.0	88	64 - 129
Chlorobenzene	19.6	20.0	98	80 - 121
Chloroethane	17.3	20.0	86	69 - 128
Chloroform	19.0	20.0	95	75 - 123
Chloromethane	17.9	20.0	89	55 - 139
Dibromochloromethane	21.2	20.0	106	78 - 127
1,1-Dichloroethane	19.1	20.0	96	76 - 128
1,2-Dichloroethane	18.6	20.0	93	72 - 130
1,1-Dichloroethene	21.4	20.0	107	74 - 135
cis-1,2-Dichloroethene	19.8	20.0	99	77 - 123
trans-1,2-Dichloroethene	19.0	20.0	95	72 - 120
1,2-Dichloropropane	21.3	20.0	107	80 - 119
cis-1,3-Dichloropropene	20.5	20.0	103	77 - 125
trans-1,3-Dichloropropene	20.9	20.0	104	69 - 127
Ethylbenzene	19.5	20.0	98	75 - 123
2-Hexanone	23.5	20.0	117	61 - 131
Methylene Chloride	21.1	20.0	105	73 - 122
4-Methyl-2-pentanone (MIBK)	24.4	20.0	122	61 - 132
Styrene	21.1	20.0	106	80 - 121
1,1,2,2-Tetrachloroethane	17.6	20.0	88	72 - 124
Tetrachloroethene	19.1	20.0	96	71 - 127
Toluene	20.1	20.0	101	77 - 120
1,1,1-Trichloroethane	17.8	20.0	89	67 - 121
1,1,2-Trichloroethane	22.1	20.0	110	81 - 117
Trichloroethene	23.7	20.0	118	75 - 122
Vinyl Chloride	18.0	20.0	90	68 - 139

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/11/14

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 387573

Lab Control Sample
 RQ1403576-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	20.6	20.0	103	77 - 131
m,p-Xylenes	40.1	40.0	100	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/14/14

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 388014

Lab Control Sample
 RQ1403634-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	25.2	20.0	126	61 - 138
Benzene	20.5	20.0	103	76 - 118
Bromodichloromethane	20.9	20.0	104	79 - 123
Bromoform	20.1	20.0	101	72 - 128
Bromomethane	27.1	20.0	135	46 - 157
2-Butanone (MEK)	23.2	20.0	116	60 - 133
Carbon Disulfide	24.9	20.0	125	61 - 144
Carbon Tetrachloride	18.9	20.0	94	64 - 129
Chlorobenzene	19.5	20.0	98	80 - 121
Chloroethane	18.8	20.0	94	69 - 128
Chloroform	19.8	20.0	99	75 - 123
Chloromethane	19.1	20.0	95	55 - 139
Dibromochloromethane	20.2	20.0	101	78 - 127
1,1-Dichloroethane	20.6	20.0	103	76 - 128
1,2-Dichloroethane	18.4	20.0	92	72 - 130
1,1-Dichloroethene	22.1	20.0	111	74 - 135
cis-1,2-Dichloroethene	20.5	20.0	102	77 - 123
trans-1,2-Dichloroethene	20.4	20.0	102	72 - 120
1,2-Dichloropropane	21.7	20.0	109	80 - 119
cis-1,3-Dichloropropene	21.5	20.0	108	77 - 125
trans-1,3-Dichloropropene	20.7	20.0	104	69 - 127
Ethylbenzene	19.9	20.0	99	75 - 123
2-Hexanone	21.7	20.0	108	61 - 131
Methylene Chloride	21.3	20.0	106	73 - 122
4-Methyl-2-pentanone (MIBK)	22.4	20.0	112	61 - 132
Styrene	20.3	20.0	101	80 - 121
1,1,2,2-Tetrachloroethane	19.0	20.0	95	72 - 124
Tetrachloroethene	19.4	20.0	97	71 - 127
Toluene	20.7	20.0	103	77 - 120
1,1,1-Trichloroethane	19.2	20.0	96	67 - 121
1,1,2-Trichloroethane	21.2	20.0	106	81 - 117
Trichloroethene	20.3	20.0	101	75 - 122
Vinyl Chloride	19.1	20.0	95	68 - 139

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/14/14

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 388014

Lab Control Sample
 RQ1403634-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	20.1	20.0	101	77 - 131
m,p-Xylenes	39.8	40.0	99	77 - 124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/11/14

Lab Control Sample Summary
 Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L
 Basis: NA

Analysis Lot: 387802

Analyte Name	Lab Control Sample RQ1403492-02			Duplicate Lab Control Sample RQ1403492-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ethane	26.0	26.1	100	25.8	26.1	99	78 - 134	<1	30
Ethylene	25.3	24.3	104	25.4	24.3	105	73 - 129	<1	30
Methane	25.1	26.2	96	24.9	26.2	95	76 - 138	1	30
Propane	24.3	25.5	95	24.5	25.5	96	73 - 134	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-018
 Sample Matrix: Water

Service Request: R1402319
 Date Analyzed: 4/8/14

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method: Organic Acids

Units: mg/L
 Basis: NA

Analysis Lot: 387325

Analyte Name	Lab Control Sample RQ1403348-02			Duplicate Lab Control Sample RQ1403348-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	1.92	1.96	98	1.95	1.96	99	70 - 130	2	30
Acetic Acid	20.9	19.7	106	20.7	19.7	105	70 - 135	1	30
Butanoic Acid (Butyric Acid)	18.3	19.8	92	16.4	19.8	83	78 - 113	11	30
Lactic Acid	19.5	19.7	99	19.8	19.7	100	70 - 117	1	30
Propionic Acid	21.2	19.9	106	20.9	19.9	105	80 - 125	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Project Name COOPERVISION		Project Number 70665-018		ANALYSIS REQUESTED (Include Method Number and Container Preservative)												
Project Manager MARK RAMSDELL		Report CC		PRESERVATIVE												
Company/Address HALEY & ALDRICH 200 TOWN CENTRE DR, SUITE 2 ROCHESTER, NY 14623		Email mramsdel@haleyaldrich.com		NUMBER OF CONTAINERS	GC/MS VOA's • 8260 • 824 • CLP	GC/MS SYOAs • 8270 • 825	GC VOA's • 8071 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SULFATE, SULFIDE, NITRATE NITRITE, CHLORIDE	ALKALINITY	DISSOLVED GASES	METABOLIC ACIDS	Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____
Phone # 585.321.4241		Sampler's Signature NOAH MANTANO/JOHN BECKER														

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX												
		DATE	TIME													
MW-3	001	1 APR 2014	1330	GW	9	X							X	X	X	
OW-306	002	1 APR 2014	1440	GW	3	X										✓
MW-203	003	1 Apr 2014	1540	GW	3	X										
MW-202	004	1 Apr 2014	1655	GW	4	X							X	X	X	X
MW-204	005	2 APR 2014	0950	GW	3	X										
MW-501	006	2 APR 2014	1145	GW	7	X							X	X	X	
MW-502	007	2 Apr 2014	1410	GW	7	X							X	X	X	
OWS-302	008	2 APR 2014	1510	GW	7	X							X	X	X	
MW-205	009	2 APR 2014	1555	GW	10	X							X	X	X	X
BAP-1	010	2 Apr 2014	1735	GW	10	X							X	X	X	X
BAP-2	011	2 Apr 2014	1850	GW	10	X							X	X	X	X

SPECIAL INSTRUCTIONS/COMMENTS Metals	TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day	REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries IV. Data Validation Report with Raw Data	INVOICE INFORMATION PO # BILL TO:
	REQUESTED REPORT DATE SPUD	Edata <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	R1402319 5 Haley & Aldrich, Inc. CooperVision

STATE WHERE SAMPLES WERE COLLECTED NY					
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature	Signature	Signature	Signature
Printed Name JOHN BECKER	Printed Name J. Seaman	Printed Name	Printed Name	Printed Name	Printed Name
Firm HEA	Firm ALS	Firm	Firm	Firm	Firm
Date/Time 3/26/2014 0950	Date/Time 4/3/14 0950	Date/Time	Date/Time	Date/Time	Date/Time



Cooler Receipt and Preservation Check Form

Project/Client HeA Folder Number R1402319

Cooler received on 4/3/14 by: JB COURIER: ALS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. * Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? ALS/R0C, CLIENT
7. Soil VOA samples received as: Bulk Jar Encore TerraCore Lab5035set N/A
8. Temperature of cooler(s) upon receipt: 4.3 1.8

Is the temperature within 0° - 6° C?: YN YN Y N Y N Y N
If No, Explain Below Date/Time Temperatures Taken: 4/3/14 1011

Thermometer ID: IR GUN#3 IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition & Client Approval to Run Samples:

All Samples held in storage location room by JB on 4/3/14 at 1011
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: 03-21-14

Cooler Breakdown: Date: 4/3/14 Time: 1826 by: JB

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH		
≥12	NaOH									Yes = All samples OK	
≤2	HNO ₃										No = Samples were preserved at lab as listed
≤2	H ₂ SO ₄	✓		WCR6101D	3/15						
<4	NaHSO ₄			Handwritten 4/3/14						PM OK to Adjust:	
Residual Chlorine (-)	For TCN Phenol and 522	✓		If present, contact PM to add ascorbic acid Or sodium sulfite (522)							
	Na ₂ S ₂ O ₃	-	-								*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet
	Zn Aceta	-	-	WCR6045E	8/14						
	HCl	*	*	411212C	3/15						

Bottle lot numbers: 010014-113MC, 4-002-003 512612-2VV, 123013-2AAW

Other Comments: All Alkalinity bottles have headspace.

PC Secondary Review: JB 4/21/14
G:\SMODOCS\Cooler Receipt 6.doc 11/6/12

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

00081