2011 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
29 February 2012

HALEY& ALDRICH

Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623

Tel: 585.359.9000
Fax: 585.359.4650
HaleyAldrich.com

29 February 2012
File No. 70665-018

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
711 North Street
Scottsville, New York

Ladies and Gentlemen:

Haley & Aldrich, Inc. is pleased to provide this 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 29 November 2010 through 31 January 2011, and is intended to satisfy the annual PRR reporting requirements described in the NYSDEC-approved 29 July 2010 Site Management Plan (SMP). This is the first formal PRR report required as part of the Site Management Plan.

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 16 December 2011. An additional copy of the Engineering/Institutional Control Certification Form is also being 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

Claire L. Mondello
Project Manager

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

Vincent B. Dick
Vice President

Enclosures

c: CooperVision; Chuck Rogers
CooperVision; Bernard Hallatt
McKenna Long and Aldridge LLP; 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 includes an original building with additions having a total area of approximately 50,000 sq. ft. Soil and groundwater on some portions of the Site have been found to be impacted by volatile organic compounds (VOCs), primarily 1,1,1-trichloroethane (1,1,1-TCA). The Site has been used for manufacturing since the mid-1970s.

The Site was 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 vapor intrusion (constructed and started 2006).
- Installation of soil-bentonite-cement trench collars along utility lines to mitigate the potential for impacted soil vapors from migrating offsite via a preferential pathway (constructed 2008).

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 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 29 July 2010 Site Management Plan (SMP) and 16 June 2010 Final Engineering Report, 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) for the purpose of protecting public health and the environment. Engineering controls include maintenance of the existing site cover, the sub-slab depressurization system, 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 use restrictions, land use restrictions, and adherence to the SMP. The institutional and engineering controls have remained in-place and functioned as designed during the reporting 2011 period.

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.

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 and/or 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 includes an original building with additions having a total area of approximately 50,000 sq. ft. Soil and groundwater on some portions of the Site were impacted by volatile organic compounds (VOCs), primarily 1,1,1-trichloroethane (1,1,1-TCA). The Site has been used for manufacturing (fabrication of contact lenses) since the mid-1970s.

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 injection with hydrogen release compound (HRC) to stimulate enhanced bio-remediation of the VOCs in the soil and groundwater. The HRC injection was conducted in 2001. In addition, a sub-slab depressurization system 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 of concern (1,1,1-TCA, 1,1-DCE, 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 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 be potential preferential pathways for 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 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 29 July 2010 Site Management Plan and 16 June 2010 Final Engineering Report, the NYSDEC granted CooperVision a release from liability for the Site on 29 November 2010.

2. IC/EC COMPLIANCE REPORT

2.1 IC Requirements and Compliance

A series of site restrictions in the form of Deed Restrictions is 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 EC 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

Exposure to remaining contamination in 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 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.

Excavation activities and/or importation of clean fill materials that would result soil management and existing cover restoration in accordance with the SMP did not occur during the reporting period. The existing cover remained in-place and was effectively maintained during the reporting period.

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 fans were installed during 2006 to depressurize the sub-slab in the vicinity of the 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, eighteen permanent test points were installed for testing of sub-slab vacuum

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.

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 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.

2.3 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 for 2011 consisted of two rounds of groundwater sampling in accordance with the sampling and analysis plan in the Site Management Plan and two rounds of vacuum testing of the sub-slab depressurization system. Monitoring of the groundwater and operations, maintenance, and monitoring of the sub-slab depressurization system are further described below.

3.1 Groundwater Monitoring

Groundwater sampling was conducted between 11 and 12 April 2011, and 13 and 14 October 2011. Updated summary tables (Tables I through IV), associated time series charts and groundwater contours (Figure 3 and 4) are attached. Laboratory data was submitted as an EQuIS deliverable to the NYSDEC on 9 August 2011 and 16 February 2012.

Overall, the data appear consistent with previous sampling events. The following paragraphs describe specific results:

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:

- 1,1,1-TCA was detected in MW-205 during both sampling events. The sampling results indicate an increase in 1,1,1-TCA in this well during the spring sampling event but then a decrease back to historical levels during the fall sampling event. It is anticipated that it may increase at times as a result of desorption into the aquifer, and an increase is not necessarily indicative of a rebound of contamination in the source area. 1,1,1-TCA was not detected in OWS-302S.

- 1,1-DCA continues to be detected in well MW-205 at levels consistent with previous sampling events, and has shown a slight decrease since 2010. These conditions indicate that this compound is not "stacking" within the aquifer and appears to be degrading completely. 1,1-DCA was detected in April 2011 in well OWS-302S at a level higher than previously seen, however the level of 1,1-DCA decreased to non-detect in October 2011. The 1,1-DCA results are consistent with historical seasonal trends.

- Chloroethane continues to be detected in OWS-302S. In addition ethane and chloride ion, completion products of the reductive dechlorination process (see below) were detected during both sampling events. As with previous sampling events, chloroethane, the daughter product of 1,1-DCA has not been detected in MW-205. Both chloride ion and ethane were detected in MW-205, which are the completion products of the reductive dechlorination process for 1,1,1-TCA as shown below:

Dechlorination of 1,1,1-Trichloroethane:

$$1,1,1-TCA \rightarrow DCA \rightarrow Chloroethane \rightarrow Ethane \,\&\, Chloride$$

- Metabolic acids continue to be present in significant amounts in MW-205 indicating that biologic stimulation caused by the Hydrogen Release Compound injection continues to effectively liberate hydrogen into the groundwater for enhancement of the biodegradation processes. Metabolic acids were not analyzed for the other wells.

- Also notable in the source area is continued high aquifer alkalinity, as well as the low redox values. The low redox values indicate that aquifer conditions continue to be anaerobic in the source area, which is conducive to reductive dechlorination.

3.1.2 Mid-gradient Area

Refer to Table II and Table IV for a summary of mid-gradient area well data. Overall, mid-gradient conditions are steady and 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 and vinyl chloride continue to be non-detect in MW-502.

- Chloroethane, the breakdown product of 1,1-DCA, continues to be present in the sampled wells, most notably in MW-502, where it has been increasing since April 2009. Ethane was not detected in mid-gradient wells during this sampling event, though chloride ion was detected in the wells in which it was sampled. Ethane is highly volatile, and concentrations of ethane can be difficult to quantify. The chloroethane and chloride ion detections are indicators that reductive dechlorination is continuing to move towards completion.

3.1.3 Down-gradient Area

Refer to Table III for a summary of downgradient well data. Overall, down-gradient conditions are steady and are similar to recent groundwater monitoring events.

- 1,1,1-TCA concentrations were not detected above laboratory reporting limits in the downgradient wells sampled.

- 1,1-DCA was detected in wells MW-202 and MW-204 during both 2011 sampling events. 1,1-DCE was detected in MW-202 during both sampling events and in MW-204 during the October 2011 sampling event. The detections were slightly higher than the groundwater standard, with slightly more elevated detections at MW-202, where there appeared to be a slight increase from the previous sampling events. Specifically, 1,1-DCA was detected at 0.03 ppm and 1,1,-DCE was detected at 0.02 ppm during the October sampling event in MW-202 (refer to Table III).

- Chloroethane was not detected in the down-gradient wells.

- VOCs were not detected above laboratory reporting limits in MW-306 nor in MW-203.

3.1.4 Mann-Kendall Trend Analysis

The April and October 2011 sampling events in conjunction with the previous 18 sampling events (broken out by season) were analyzed using the Mann-Kendall statistical analysis for trend. Refer to Appendix B for the analysis results sheets.

In summary, most wells showed either no trend or a decreasing trend (MW-3 & MW-501). An increasing trend was noted in MW-202 for 1,1-DCA and 1,1-DCE for the Spring event only, but reverted to "No Trend" in the Fall sample event. For MW-204, no trend was noted for the Spring event, but a mix of decreasing and increasing trends were noted for 1,1,1-TCA and 1,1-DCA in the for the Fall event, respectively.

Note that the Mann-Kendall analysis does not take into account magnitude of an increase or decrease as part of the statistical analysis; therefore it should be used subjectively in concert with other data with respect to the downgradient wells, where concentrations in the groundwater typically fluctuate within 0.01 mg/L. It is noted that the analytical results at both MW-202 and MW-204 are consistent with historical trends and continue to be close to the groundwater standard/detection limit. Therefore, an increasing trend per the Mann-Kendall analysis in those downgradient wells does not appear indicative of plume expansion.

In summary, results of the 2011 sampling indicate dechlorination remains ongoing, and as supported by past results, is not indicative of plume expansion.

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

The sub-slab depressurization system continuously operates at the Site building and is monitored weekly by CooperVision staff. They record the system fans' vacuum readings and record operations data on a Maintenance Form. This data is either stored onsite or sent off-site by CooperVision for permanent storing at a document storage facility. Maintenance forms from 2011 are included in Appendix C. Fan #1 was replaced in August 2011 by Mitigation Tech. CooperVision personnel noticed the fan generating unusual noise and replaced it as a precaution. Therefore, other than the short downtime during fan replacement, system operation was maintained as intended.

The system was evaluated on 11 April 2011 and 14 October 2011 by Haley & Aldrich. The evaluation included vacuum testing of existing test points located within the facility. Overall, the system operation appeared 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. This was noted during the initial installation and is caused by the negative pressure crested by the facility's vacuum pumps located in this room. 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 requiring implementation of the Excavation Management Plan in the SMP did not occur during the reporting period.

- 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 is stable.

- No modifications to the Site remedy are recommended at this time.

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

All values expressed in mg/L (ppm)

Sample ID:	OWS-302S																										
Well Screen Interval (ft):	13.0 - 14.0																										
Date Sampled: / Compound:	6/1/99	6/1/99 DEC SPLIT	4/28/00	7/19/01	10/18/01	1/30/02	4/9/02	7/31/02	10/16/02	1/28/03	4/7/03	10/30/03	4/8/04	10/27/04	4/8/05	10/12/05	5/16/06	10/17/06	4/24/07	11/15/07	4/30/08	10/16/08	4/23/09	10/20/09	4/21/10	10/18/10	4/13/11	10/14/11
VOLATILE ORGANICS															2000x Dil.	1000x Dil.	250x Dil.	250x Dil.	100x Dil.	200x Dil.	200x Dil.	200x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.
Acetone	ND	**1.8 B**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**49**	**61 D**	**390**	**180 D**	**200 D**	**370 D**	**390**	**270**	**360**	**330**	**300**	**220**	**250**	**230**	**240**	**140**	**37 D**	**27**	**1**	**0.52**	**1.4**	**0.81**	**2.9**	ND	**56**	**10**	**220 D**	ND
1,1-Dichloroethene	ND	**0.022 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	**0.94**	ND	**4**	**2.2**	ND	ND	ND	ND	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	**0.056 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**130**	**19 D**	**38**	**18**	**25 D**	**38**	**34 D**	**62**	**73**	**30**	**74**	**7.5**	**72**
1,2-Dichloroethane	ND	**0.02 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
SEMI-VOLATILE ORGANICS																												
Bis(2-ethylhexyl) pthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																			20x Dil.	2.5x Dil.			10x Dil.	10x Dil.	10x Dil.	20x Dil.		125x Dil
Methane	NA	NA	NA	DRY	ND	**0.002**	NA	**0.0063**	NA	**0.0016**	**0.031**	**0.0086**	**0.003**	**0.01**	**0.0068**	**0.016**	**0.0042**	**0.055**	**1.7**	**0.17**	**0.0074**	DRY	**0.83**	**3.1**	**0.93**	**1.3**	**0.054**	**11**
Ethane	NA	NA	NA	DRY	**0.0079**	ND	NA	**0.03**	NA	**0.0034**	**0.05**	**0.001**	**0.0084**	**0.029**	**0.0036**	**0.013**	**0.0013**	**0.014**	ND	**0.0085**	**0.0018**	DRY	ND	ND	ND	ND	**0.018**	**0.0057**
Ethene	NA	NA	NA	DRY	**0.0075**	ND	NA	**0.022**	NA	**0.0025**	**0.049**	**0.0071**	**0.0048**	**0.37**	**0.0022**	**0.0089**	ND	**0.0069**	ND	**0.0033**	**0.0023**	DRY	ND	ND	ND	ND	**0.026**	**0.0052**

Notes & Abbreviations:
ND: Not Detected
NA: Not Analyzed
DRY: Insufficent 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 stochiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

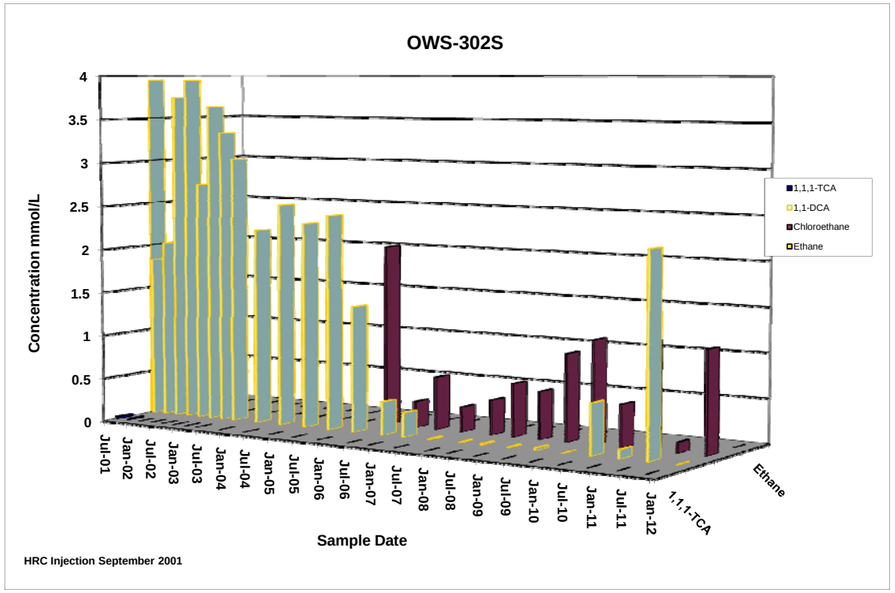

TABLE I
COOPERVISION, INC.
SUMMARY OF VOLATILE GASES AND DISSOLVED GASES
SOURCE AREA WELLS

All values expressed in mg/L (ppm)

Sample ID:	MW-205																											
Well Screen Interval (ft):	21.2 - 28.0																											
Date Sampled: / Compound:	7/10/97	6/2/99	4/28/00	7/19/01	10/18/01	1/29/02	4/9/02	7/31/02	10/15/02	1/29/03	4/7/03	10/29/03	4/6/04	4/6/04 DEC split	10/28/04	4/8/05	10/11/05	5/16/06	10/18/06	4/25/07	11/15/07	4/30/08	10/16/08	4/24/09	10/21/09	4/21/10	10/18/10	4/13/11	10/14/11
VOLATILE ORGANICS																2000x Dil	2000x Dil	2000x Dil	2000x Dil	2000x Dil	2000x Dil.	2000x Dil.	2000x. Dil	2000x Dil.	2000x Dil.	1000x Dil.	2000x Dil	2000x Dil	2500x Dil
Acetone	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**153**	**190 D**	NA	**180 D**	**160 D**	**240**	**290**	**260**	**260**	**230**	**290**	**210**	**200 D**	**180**	**230**	**240**	**230**	**220**	**270**	**230**	**390**	**200**	**200**	**200**	**200**	**230 D**	**220**	**300**	**230**
1,1-Dichloroethene	ND	ND	NA	**2.6**	ND	ND	ND	ND	ND	ND	ND	ND	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**421**	**480 D**	NA	**260 D**	**180 D**	**300**	**300**	**280**	**260**	**200**	**320**	**250**	**140 D**	**150**	**100**	**76**	**80**	**57**	**62**	**41**	**84**	**42**	**57**	**48**	**99**	**140**	**160**	**130**	**110**
Tetrachloroethene	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.075**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.05**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.11**	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	**0.009**	**0.008**	NA	ND	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA
SEMI-VOLATILE ORGANICS																													
Bis(2-ethylhexyl) pthalate	NA	**0.016**	NA	NA	NA	NA	NA	NA	NA	NA	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	**0.005**	**0.0053**	**0.0052**	NA	**0.0062**	**0.0057**	**0.0014**	**0.022**	**0.0057**	**0.0013**	NA	**0.0064**	**0.0062**	**0.0098**	**0.011**	**0.013**	**0.019**	**0.033**	**0.014**	**0.022**	**0.014**	**0.010**	**0.011**	**0.006**	**0.130**	**0.024**
Ethane	NA	NA	NA	**0.01**	**0.0084**	**0.0069**	NA	**0.0098**	**0.0086**	**0.0012**	**0.013**	**0.0038**	**0.006**	NA	**0.0059**	**0.007**	**0.012**	**0.016**	**0.017**	**0.019**	**0.026**	**0.019**	**0.023**	**0.020**	**0.012**	**0.013**	**0.006**	**0.011**	**0.024**
Ethene	NA	NA	NA	**0.0029**	**0.0024**	**0.002**	NA	**0.0026**	**0.0023**	**0.004**	**0.0048**	**0.0021**	**0.0028**	NA	**0.0048**	**0.0051**	**0.012**	**0.012**	**0.014**	**0.013**	**0.016**	**0.012**	**0.02**	**0.015**	**0.011**	**0.012**	**0.0062**	**0.0077**	**0.017**

Notes & Abbreviations:
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DRY: Insufficent 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 stochiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

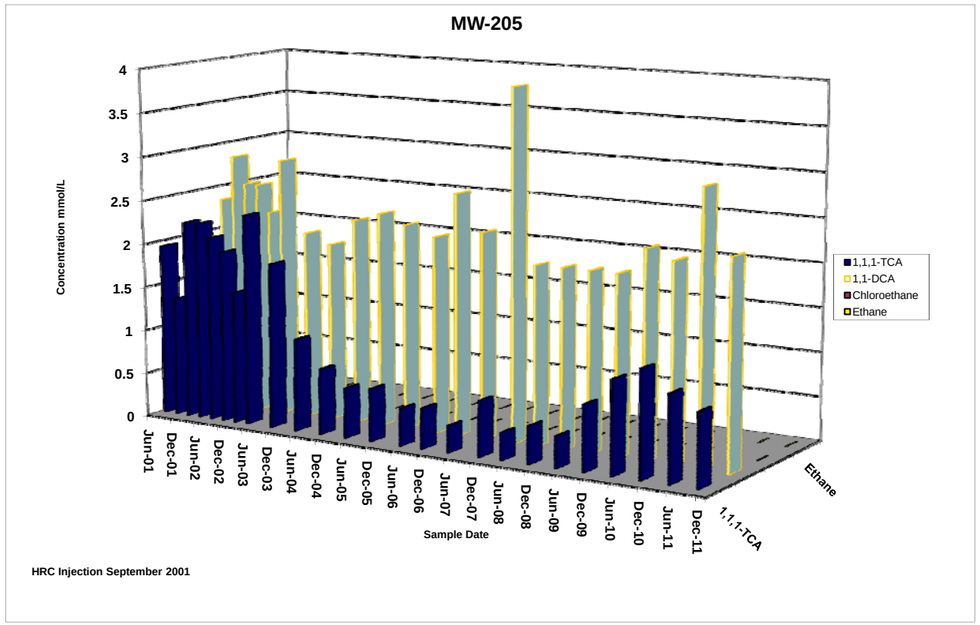

TABLE II
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID:	MW-3																									
Well Screen Interval (ft):	3.0 - 10.0																									
Date Sampled:	6/18/1997	6/2/1999	10/26/1999	10/18/2001	2/15/2002	4/9/2002	7/30/2002	10/15/2002	1/28/2003	4/7/2003	10/28/2003	4/6/2004	4/6/2004 DEC split	10/27/2004	4/6/2005	10/10/2005	5/17/2006	10/18/2006	4/25/2007	11/14/2007	4/28/2008	10/13/2008	4/24/2009	10/20/2009	4/21/2010	10/19/2010	4/12/2011	10/14/2011
Compound:																										
VOLATILE ORGANICS																	20x Dil.	20x Dil.	20x Dil.	20x Dil.	20x Dil.	20x Dil	20x Dil.	10x Dil.	10x Dil.	10x Dil.	10x Dil.	10x Dil.
Acetone	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.02**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**2**	**2.9**	**3.2**	**0.79 D**	**2.8**	**2.4**	**3.8**	**3.9**	**5.8**	**8.4**	**0.56**	**1 D**	**0.74 D**	**3.1**	**0.68**	**1**	**0.34**	**0.51**	**0.93**	**0.22**	**0.36**	**0.36**	**0.38**	**0.21**	**0.1**	**0.16**	**0.098**	**0.052**
1,1-Dichloroethene	**0.63**	**1.8**	**2.2**	**0.53 D**	**2**	**2**	**1.8**	**1.4**	**1.5**	**1.2**	**0.57**	**0.33**	**0.23 D**	**0.36**	**0.099**	**0.1**	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	**0.006**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**3.3**	**10**	**8**	**2.4 D**	**9.1**	**8.5**	**6.2**	**3.4**	**1.7**	ND	**0.23**	**0.9 D**	**0.66 D**	**0.42**	**0.23**	**0.17**	ND	ND	**0.14**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.007**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	**0.037**	ND	ND	ND	ND	ND	ND	ND	**0.026**	**0.031**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	**0.29**	**1.3**	**3**	**2.8 D**	**3 D**	**2.3**	**1.0**	**2.8 E**	**2.3**	**3.7**	**3.4**	**2.5**	**2.4**	**2.8**	**3.1**	**1.8**	**1.0**	**1.7**	**1.5**	**1.1**
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.007**	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	**0.001**	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	**0.013**	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	**0.21**	**0.36**	**0.50**	**0.34**	**0.082**	**0.56**	**0.39**	**0.71**	**0.67**	**0.51**	**0.5**	**0.63**	**0.69**	**0.38**	**0.25**	**0.38**	**0.32**	**0.19**
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.058**	**0.660**	NA	ND	NA	NA	NA	NA	NA	**0.088 D**	NA	**0.075**	NA	NA	NA	NA	NA
DISSOLVED GASES																		10x Dil.	10x Dil.		10x Dil.	20x Dil	20x Dil.	20x Dil.	10x Dil.	10x Dil.	25x Dil.	25X Dil.
Methane	NA	NA	NA	DRY	**0.02**	NA	**0.039**	**0.036**	**0.12**	**0.18**	**0.17**	**0.0095**	NA	**0.38**	**0.019**	**0.3**	**0.37**	**0.9**	**0.96**	**0.73**	**0.58**	**1.2**	**1**	**0.83**	**0.93**	**1.6 D**	**1.4**	**2.4**
Ethane	NA	NA	NA	DRY	**0.0039**	NA	**0.0029**	**0.0016**	**0.0029**	**0.003**	ND	ND	NA	ND	**0.0019**	ND	ND	ND	ND	ND	ND	**0.003**	ND	ND	ND	ND	ND	ND
Ethene	NA	NA	NA	DRY	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	**0.0066**	ND	**0.019**	**0.016**	**0.015**	**0.011**	**0.027**	ND	**0.010**	**0.020**	**0.031**	**0.032**	**0.053**

Notes & Abbreviations:
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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 stochiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

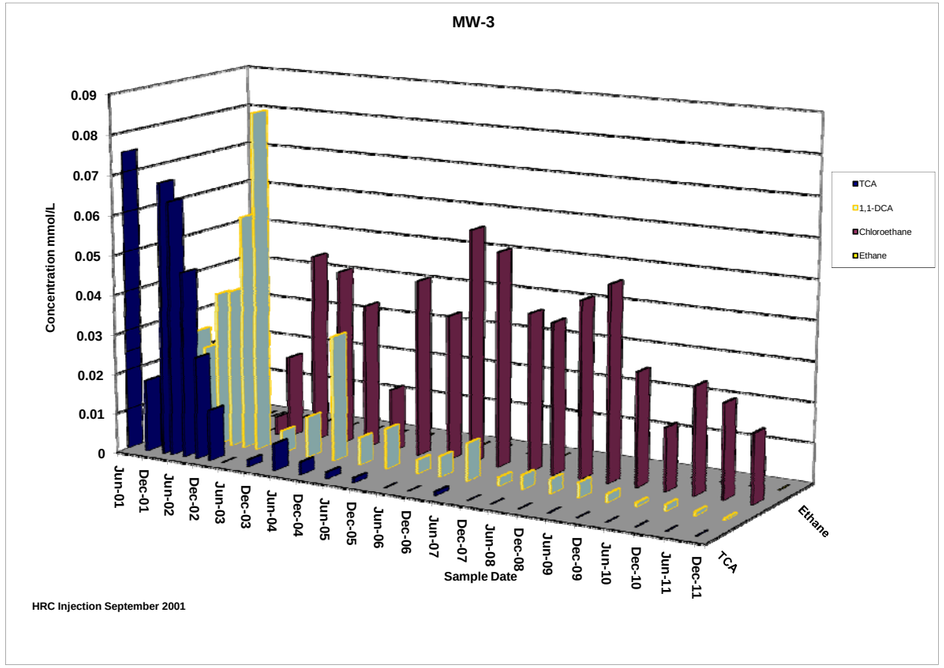

TABLE II
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID:	MW-501																									
Well Screen Interval (ft):	20.0 - 25.0																									
Date Sampled:	7/19/2001	7/23/2001	10/17/2001	10/17/2001 DEC SPLIT	2/15/2002	4/9/2002	7/30/2002	10/15/2002	1/29/2003	4/7/2003	10/29/2003	4/7/2004	10/27/2004	4/8/2005	10/11/2005	5/16/2006	10/18/2006	4/25/2007	11/14/2007	4/28/2008	10/15/2008	4/24/2009	10/20/2009	4/21/2010	10/18/2010	4/13/2011	10/14/2011
Compound:																										
VOLATILE ORGANICS															5x Dil.	10x Dil.	2x Dil.	2x Dil.	5x Dil.	5x Dil.	2.5x Dil.	5x Dil.	2.5x Dil.	2.5x Dil.	2.5x Dil.	5x Dil.	5x Dil
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	**5.3 D**	**0.055**	**0.4475**	**0.96**	**9.9 D**	**1.8**	**2.2 D**	**4.3**	**7**	**0.4**	**0.56**	**0.6**	**0.79**	**0.49**	**0.48**	**0.29**	**0.31**	**0.24**	**0.15**	**0.09**	**0.17**	**0.11**	**0.088**	**0.089**	**0.15**	**0.1**
1,1-Dichloroethene	ND	**0.0098**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.26**	**0.7**	**0.9**	**0.42**	**0.37**	**1.4 E**	**0.68 D**	**0.31**	**0.28**	**0.71 D**	**0.52**	**0.32**	**0.61**	**0.47**	**0.46**	**0.49 D**	**1.2 D**	**0.9 D**
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.028**	**0.029**	ND	**0.041**	**0.046**	**0.06**	**0.054**	**0.051**	**0.051**	**0.058**	**0.018**	**0.071**	**0.047**	**0.065**	**0.095**	**0.1**	**0.084**
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES														200X Dil.	100X Dil.	100x Dil.	100x Dil.	100x Dil.		200x Dil.	20x Dil.	250x Dil.	100x Dil.	250x Dil.	125x Dil.	250x Dil.	250x Dil.
Methane	**0.0033**	**0.0081**	**0.018**	NA	**0.02**	NA	**0.037**	**0.25**	**5.5**	**6.8**	**11**	**13**	**4.4**	**13**	**5**	**8.6**	**8**	**7.1**	**0.042**	**10**	**1.6**	**15**	**37**	**15**	**9.7**	**19**	**13**
Ethane	ND	**0.005**	**0.004**	NA	**0.0018**	NA	**0.0011**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0024**	ND	ND	ND	ND	ND	ND	ND
Ethene	ND	**0.0045**	**0.0014**	NA	**0.0012**	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes & Abbreviations:
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DRY: Insufficent Recharge
D: Diluted Result
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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 stochiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

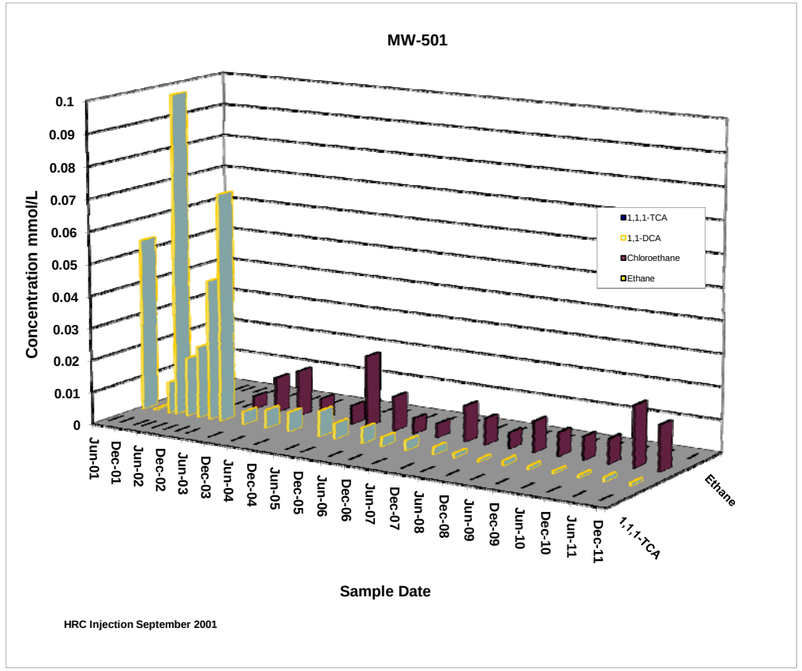

TABLE II
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID:	MW-502																								
Well Screen Interval (ft):	30.0 - 35.0																								
Date Sampled: / Compound:	7/24/2001	10/17/2001	10/17/2001 DEC SPLIT	1/28/2002	4/9/2002	7/30/2002	10/15/2002	1/27/2003	4/7/2003	10/28/2003	4/7/2004	10/27/2004	4/7/2005	10/11/2005	7/6/2006	10/18/2006	4/25/2007	11/14/2007	4/30/2008	10/15/2008	4/24/2009	10/20/2009	4/21/2010	10/18/2010	4/12/2011	10/14/2011
VOLATILE ORGANICS													100x Dil.	100x Dil.	40x Dil.	100X Dil.	50x Dil.	50x Dil.	50x Dil.	50x Dil.	50x Dil.	50x Dil.	50x Dil.	100x Dil.	100x Dil.	100x Dil.
Acetone	ND	ND	**0.072**	ND	ND	ND	ND	ND	ND	ND	**0.14**	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**9.8 D**	**11**	**4.4**	**3.3**	**0.82 D**	**3.8 D**	**11 D**	**17**	**13**	**1.5**	**0.52**	ND	**6.8**	ND	ND	**0.016**	**0.054**	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	**0.14**	ND	ND	ND	**0.14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	**0.059**	**0.16**	ND	ND	ND	0.26	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	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	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	ND	ND	ND	ND	ND	ND	ND
Chloroethane	**0.011**	ND	**0.0455**	ND	ND	ND	ND	ND	ND	**11**	**7.5 D**	**12**	**10**	**12**	**5.7 D**	**10 D**	**7.9**	**8.8**	**7.5**	**8.7**	**7.8**	**9.1**	**11 D**	**13**	**17**	**16**
1,2-Dichloroethane	**0.012**	ND	**0.0115**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	**0.0063**	**1.1**	**0.0489**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**0.011**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.19**	ND	ND	ND	**0.28**	**0.19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.69**	**5.6**	ND	**0.12**	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	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES													100X Dil.	200X Dil.	100X Dil.	100X Dil.	200x Dil.	100x Dil.	200x Dil.	50x Dil.	300x Dil.	400x Dil.	200x Dil.	200x Dil.	200x Dil.	250x Dil.
Methane	DRY	**0.018**	NA	**0.0027**	NA	**0.32**	**0.78**	**3.4**	**1.5**	**6.3**	**6.9**	**7.4**	**8.5**	**12**	**4.8**	**5.8**	**12**	**9.4**	**15**	**44 D**	**8.8**	**10**	**15**	**11**	**18**	**17**
Ethane	DRY	**0.024**	NA	**0.0061**	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0051**	ND	ND	ND	ND	ND	ND
Ethene	DRY	**0.0066**	NA	**0.002**	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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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 stochiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

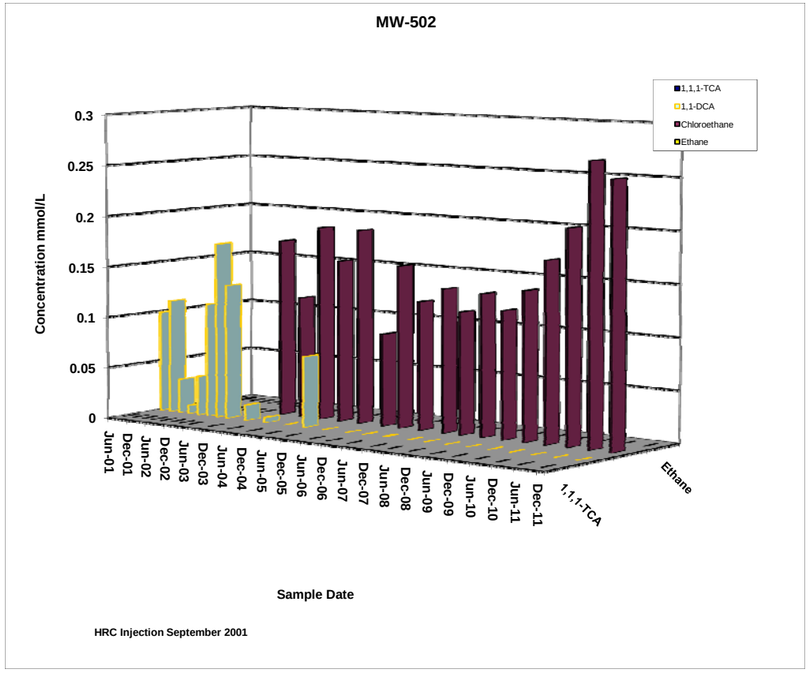

TABLE III
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
DOWN-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID:	**MW-202**																											
Well Screen Interval (ft):	10.1 - 20.3																											
Date Sampled: / **Compound:**	7/10/97	6/2/99	10/26/99	7/18/01	10/18/01	1/28/02	4/8/02	7/29/02	10/14/02	1/29/03	4/7/03	10/28/03	4/7/04	10/26/04	4/6/05	10/10/05	7/6/06	10/17/06	4/24/07	11/14/07	4/28/08	10/13/08	4/23/09	10/20/09	4/21/10	10/19/10	4/12/11	10/13/11
VOLATILE ORGANICS																												
Acetone	**0.027**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**0.008**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0064**	**0.0053**	ND	**0.0093**	**0.0110**	**0.0130**	ND	**0.0160**	**0.0300**
1,1-Dichloroethene	**0.018**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0056**	ND	ND	**0.0050**	**0.0078**	**0.0083**	ND	**0.0100**	**0.0200**
1,1,1-Trichloroethane	**0.061**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.008**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																												
Methane	NA	NA	NA	NA	NA	NA	NA	ND	NA	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	ND	NA	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	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:
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NA: Not Analyzed
DRY: Insufficent 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:	**MW-203**																									
Well Screen Interval (ft):	9.8 - 20.0																									
Date Sampled: / **Compound:**	7/10/97	6/2/99	7/18/01	10/18/01	1/29/02	4/8/02	7/29/02	10/14/02	1/30/03	4/7/03	10/28/03	4/7/04	10/26/04	4/6/05	10/10/05	5/15/06	10/19/06	4/26/07	11/14/07	4/30/08	10/13/08	4/22/09	10/21/09	4/21/10	10/19/10	4/11/11	10/13/11
VOLATILE ORGANICS																										
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	**0.118**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.018**	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.009**	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	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	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																										
Methane	NA	NA	NA	NA	NA	NA	ND	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	ND	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	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:
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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:	**MW-204**																										
Well Screen Interval (ft):	9.8 - 20.0																										
Date Sampled:	7/10/97	6/2/99	7/18/01	10/18/01	1/28/02	4/8/02	7/29/02	10/14/02	1/30/03	4/7/03	10/28/03	4/6/04	4/6/04 DEC split	10/26/04	4/6/05	10/10/05	7/6/06	10/18/06	4/26/07	11/14/07	4/28/08	10/13/08	4/23/09	10/20/09	4/21/10	10/19/10	4/12/11	10/14/11
Compound:																											
VOLATILE ORGANICS																											
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	**0.012**	**0.019**	**0.011**	**0.010**	**0.007**	**0.010**	**0.008**	**0.006**	**0.008**	**0.006**	**0.006**	ND	**0.0068**	**0.0053**	ND	**0.1800**	**0.0740**	**0.0070**	**0.0056**	**0.0060**	**0.0056**	**0.0063**	**0.0055**	**0.0130**	**0.0059**	**0.0077**
1,1-Dichloroethene	ND	ND	**0.0088**	**0.015**	**0.008**	**0.007**	ND	**0.008**	**0.006**	**0.005**	**0.005**	**0.006**	**0.004**	ND	ND	ND	ND	**0.009**	ND	**0.0067**	ND	ND	ND	**0.0067**	**0.0053**	**0.0130**	ND	**0.0087**
1,1,1-Trichloroethane	ND	ND	**0.01**	**0.022**	**0.011**	**0.010**	ND	**0.011**	**0.007**	ND	**0.006**	**0.006**	**0.005 J**	ND	ND	ND	ND	**0.097**	**0.030**	ND	ND	ND	ND	ND	ND	**0.0063**	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.005**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.015**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.090**	**0.086**	NA	**0.047**	NA	NA	NA	NA	NA	**0.030 D**	NA	**0.022**	NA	NA	NA	NA	NA
DISSOLVED GASES																											
Methane	NA	NA	NA	NA	NA	NA	ND	NA	NA	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	ND	NA	NA	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	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:
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D: Diluted Result
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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:	**OW-306**			
Well Screen Interval (ft):	4.0 - 14.0			
Date Sampled:	4/21/10	10/19/10	4/11/11	10/13/11
Compound:				
VOLATILE ORGANICS				
Acetone	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA
DISSOLVED GASES				
Methane	NA	NA	NA	NA
Ethane	NA	NA	NA	NA
Ethene	NA	NA	NA	NA

Notes & Abbreviations:
ND: Not Detected
NA: Not Analyzed
DRY: Insufficent 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																								
Analyte	7/19/01	9/26/01	10/18/01	1/28/02	4/9/02	7/29/02	10/15/02	1/28/03	4/7/03	10/30/03	4/6/04	10/28/04	4/8/05	10/11/05	5/16/06	10/18/06	4/25/07	11/15/07	4/30/08	10/16/08	4/24/09	10/21/09	4/24/10	10/18/10	4/13/11	10/14/11
INORGANICS (mg/L)																									
Nitrite Nitrogen	**0.0265**	NS	<0.0500	NA	NA	**0.0174**	NA	NA	**0.0151**	NA	**0.069**	NA	**0.0291**	<0.0500	**0.0524**	**0.0107**	<0.0600	<0.100	<0.04	<2.0	<0.01	**26.6**	**2**	<0.05	<20	**0.058**
Nitrate/Nitrite Nitrogen	<.0500	NS	NA	NA	NA	<.0500	NA	NA	**0.135**	NA	<.0500	NA	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA	NA	<0.05
Chloride	**750**	NS	**708**	NA	NA	**741**	NA	NA	**729**	NA	**746**	**613**	**689**	**677**	**684**	**705**	**690**	**671**	**697**	**834**	**705**	**734**	**659**	**762**	**830**	**821**
Dissolved Organic Carbon	**52.2**	NS	**55.2**	NA	NA	**201**	NA	NA	**354**	NA	**497**[TOC]	NA	**667**	**1630**	**979**	**1020**	**1420**	**1270**	**1690**	**1620**	**2220**	**2653**	NA	NA	NA	NA
Nitrate Nitrogen	**0.0514**	NS	<.0500	NA	NA	<.0500	NA	NA	**0.12**	NA	<.0500	<1.0	<0.200	<0.0500	<0.0500 J	<0.0500	<0.0500	<0.500	<1.0	<0.5	<0.05	<0.50	<0.05	<4.0	<5.0	NA
Total Alkalinity	**404**	NS	**378**	NA	NA	**619**	NA	NA	**1010**	NA	**1400**	NA	**1380**	**1470**	**1500**	**1440**	**1650**	**1820**	**1980**	**2100**	**2350**	**2390**	**2610**	**2750**	<2.0	**2900**
Sulfate	**96.9**	NS	**91**	NA	NA	**27.5**	NA	NA	**9.21**	NA	**11.4**	<2.0	**2.5**	**2.46**	**2.34**	<0.2	<2.0	<2.0	**6.26**	**4.8**	**5.7**	**8.4**	**8.8**	**10.9**	**10.5**	**10**
Total Sulfide	<1.00	NS	<1.00	NA	NA	<1.00	NA	NA	<1.00	NA	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	**4.25**	**3.05**	<1.0	**2**	<1.0	<1.0	**1.6**	<1.0	<1.0	**2.6**
Total Iron	**21.2**	NS	**47.3**	NA	NA	**51.2**	NA	NA	**40.2**	NA	**42.9**	**54.2**	**64.3**	**90.1**	**72.7**	**89.8**	**92.2**	**186**	**90.8**	**126**	**89.8**	**93.9**	**117**	**10.5**	**103**	**106**
Total Manganese	**0.641**	NS	NA	NA	NA	**1.3**	NA	NA	**0.912**	NA	**0.591**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)													5X Dil.		10x Dil.	5x Dil	10x Dil	10x Dil.	10x Dil.	10x Dil.	5x Dil.	10x Dil.	20x Dil.		20x Dil	25x Dil
Lactic Acid (C3)	<1.0	NS	NA	**23.6**	NA	**39.1**	**59.5**	**41**	**81.3**	**117**	**72.9**	<10	<1.0	<1.0	<10	<1.0	<10	<1.0	<10	<10	<5.0	<10	<20	<1.0	<20	<25
Acetic Acid (C2)	**139**	NS	NA	**179**	NA	**209**	**236**	**273**	**282**	**364**	**326**	**210**	**250**	**140 E**	**360**	**380 D**	**360**	**350 D**	**350**	**340**	**270**	**270**	**310**	**430 D**	**400**	**500**
Propionic Acid (C3)	<1.0	NS	NA	<1.0	NA	**34.9**	**62.1**	**134**	**138**	**202**	**158**	**210**	**190**	**320 E**	**470**	**530 D**	**730**	**600 D**	**670**	**800**	**900**	**790**	**820**	**850 D**	**700**	**730**
Pyruvic Acid (C3)	<0.1	NS	NA	<0.1	NA	<0.1	<0.1	<0.1	**0.9**	**4.1**	<0.1	<10	<5.0	<0.5	<5.0	<0.5	<5.0	<0.5	<5.0	<5.0	<2.5	<5.0	<10	<0.5	<10	<13
Butyric Acid (C4)	<1.0	NS	NA	<1.0	NA	<1.0	<1.0	**13.1**	**26.4**	**68.6**	**177**	**420**	**400**	**470 E**	**540**	**700 D**	**1000**	**950**	**1200**	**1200**	**1900**	**1700**	**1800**	**2600 D**	**2400**	**3000**
FIELD PARAMETERS																										
Dissolved Oxygen (mg/L)	NA	NA	NA	**0.29**	**0.014**	**0.1**	**0.63**	**0.5**	**1.07**	**0.39**	**1.18**	NA	**0.76**	NA	**0.61**	**0.27**	**1.04**	**0.7**	**0.18**	**0**	**5.11***	**0**	**1**	**2.04**	**3.51**	**1.6**
Redox (mV)	**-53**	**-26**	NA	**-88**	**-61**	**-182**	**-166**	**-103**	**-42**	**-174**	**-395**	NA	**-189**	NA	**-295**	**-517**	**-112**	**-105**	**-89**	**-85**	**-90**	**-68**	**-113**	**-105**	**-82**	**-48**
Conductivity (mS)	**2.41**	**3**	NA	**2.31**	**2.48**	**2.49**	**2.9**	**2.7**	**2.7**	**4.69**	**4.81**	NA	**4.87**	NA	**4.99**	**5.21**	**5.59**	**5.43**	**5.58**	**5.86**	**5.46**	**6.04**	**12.9**	**6.75**	**6.98**	**0.81**
Iron, dissolved (mg/L)	**0.2**	NA	NA	**2.6**	**3.2**	**4.9**	**5.8**	**5.0**	**5.8**	**5.8**	**4.2**	NA	**5.4**	NA	**2.8**	**2.2**	**2.2**	**2.4**	**2.4**	**2.5**	**5**	**1.4**	**2.5**	**4.5**	**6**	**6**
Alkalinity (mg/L)	**500**	NA	NA	**580**	**580**	**630**	**680**	**600**	**1300**	**760**	**1320**	NA	**920**	NA	**200**	**1700**	**1600**	**1760**	**1620**	**2320**	**1500**	**2360**	**1460**	**1600**	**1840**	**2200**
Carbon Dioxide (mg/L)	**182**	NA	NA	**140**	**330**	**220**	**59**	**418**	**1.07**	**1275**	NA	NA	NA	NA	**160**	NA	NA	NA	NA	NA	**272**	NA	NA	NA	**470**	NA

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	MW-3																								
Analyte	7/19/01	9/26/01	10/18/01	2/15/02	4/9/02	7/30/02	10/15/02	1/28/03	4/7/03	10/30/03	4/6/04	10/27/04	4/6/05	10/11/05	5/17/06	10/18/06	4/25/07	11/14/07	4/28/08	10/13/08	4/23/09	10/20/09	4/21/10	10/19/10	4/12/11	10/14/11
INORGANICS (mg/L)																									
Nitrite Nitrogen	NS	NS	**0.13**	NA	NA	<0.01	NA	NA	<0.0100	NA	**0.0433**	NA	<0.01	<0.01	**0.0171**	**0.0155**	<0.0100	<0.0100	<0.0100	<0.5	<0.01	<0.50	<0.50	<0.010	<0.010	<0.010
Nitrate/Nitrite Nitrogen	NS	NS	NA	NA	NA	<0.05	NA	NA	**0.093**	NA	<0.0500	NA	<0.05	<0.05	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA	NA	<0.05
Chloride	NS	NS	**139**	NA	NA	**171**	NA	NA	**269**	NA	**253**	**330**	**391**	**369**	**381**	**382**	**367**	**345**	**251**	**305**	**288**	**189**	**257**	**290**	**331**	**407**
Dissolved Organic Carbon	NS	NS	**2.19**	NA	NA	**287**	NA	NA	**52.7**	NA	**5.67**[TOC]	NA	**3.51**	**5.49**	**19.9**	**21.8**	**11.8**	**10.8**	**12.5**	**5.45**	**5.8**	**4.2**	NA	NA	NA	NA
Nitrate Nitrogen	NS	NS	**2.21**	NA	NA	<0.05	NA	NA	**0.093**	NA	<0.0500	<1.0	<0.05	<0.05	<0.0500	<0.0500	<0.0500	<0.5	<0.5	<0.5	<0.05	<0.50	<0.50	<1.0	<1.0	NA
Total Alkalinity	NS	NS	**197**	NA	NA	**610**	NA	NA	**349**	NA	**218**	NA	**207**	**230**	**251**	**265**	**241**	**266**	**248**	**270**	**242**	**241**	**205**	**212**	**188**	**184**
Sulfate	NS	NS	**15.1**	NA	NA	**2.08**	NA	NA	**8.81**	NA	**11.0**	**5.9**	**4.7**	**4.4**	**2.7**	<0.200	<2.0	<2.0	<2.0	**3.03**	<2.0	**2.4**	**2.6**	**3.2**	**3.4**	**2.7**
Total Sulfide	NS	NS	<1.0	NA	NA	<1.0	NA	NA	<1.00	NA	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0
Total Iron	NS	NS	**14.1**	NA	NA	**181**	NA	NA	**116**	NA	**15.6**	**14.9**	**44.4**	**47.9**	**26.1**	**35.5**	**42.6**	**28.4**	**15.5**	**44.9**	**36.4**	**10**	**21.8**	**6.7**	**7.79**	**18.2**
Total Manganese	NS	NS	NA	NA	NA	**8.01**	NA	NA	**6.28**	NA	**1.60**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)																										
Lactic Acid (C3)	NS	NS	NA	<1.0	<1.0	**8.2**	<1.0	**12.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Acetic Acid (C2)	NS	NS	NA	**14**	**37.2**	**83.8**	**180**	**86.8**	**80.8**	**18.7**	**11.1**	<1.0	**4.7**	**9.7**	**49**	**58**	**42**	**24**	**22**	**7.8**	**12**	<1.0	NA	NA	NA	NA
Propionic Acid (C3)	NS	NS	NA	**15**	**42.5**	**248**	**606**	**241**	**225**	**28.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Pyruvic Acid (C3)	NS	NS	NA	<0.1	**0.2**	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<5.0	<0.5	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	NA	NA	NA	NA
Butyric Acid (C4)	NS	NS	NA	**7.6**	**24.3**	**72**	**505**	**157**	**100**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA
FIELD PARAMETERS																										
Dissolved Oxygen (mg/L)	NS	NS	NA	**5.19**	**4.95**	**1.34**	**2.86**	**2.40**	**3.58**	**1.11**	**5.68**	NA	**6.91**	NA	**1.42**	**1.98**	**0.93**	NA	NA	NA	NA	**0.85**	NA	NA	NA	NA
Redox (mV)	NS	NS	NA	**-116**	**35**	**-127**	**-70**	**-79**	**-80**	**-37**	**54**	NA	**-68**	NA	**194**	**61**	**-38**	NA	NA	NA	NA	**-56**	NA	NA	NA	NA
Conductivity (mS)	NS	NS	NA	**0.07**	**0.06**	**0.12**	**0.25**	**0.00**	**1.10**	**1.33**	**1.20**	NA	**1.58**	NA	**1.61**	**1.76**	**1.72**	NA	NA	NA	NA	**1.41**	NA	NA	NA	NA
Iron, dissolved (mg/L)	NS	NS	NA	NA	**0.2**	**0.9**	**4.4**	**4.5**	**4.5**	**3**	**1.2**	NA	**0.2**	NA	**0.01**	**0.2**	**1.2**	**0**	**0.4**	**0.2**	NA	**0.6**	**0**	**0.3**	NA	NA
Alkalinity (mg/L)	NS	NS	NA	NA	**240**	**680**	**1000**	**280**	**560**	**480**	**280**	NA	**160**	NA	**60**	**320**	**300**	**280**	**220**	**400**	NA	**320**	**300**	**240**	NA	NA
Carbon Dioxide (mg/L)	NS	NS	NA	NA	**61.7**	**84**	**268**	**220**	**356**	**242**	**460**	NA	NA	NA	**23.5**	**220**	**160**	**194**	**140**	**212**	NA	**140**	**136**	**80**	NA	NA

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	**MW-501**																								
Analyte	7/19/01	9/26/01	10/18/01	2/15/02	4/9/02	7/29/02	10/15/02	1/29/03	4/7/03	10/30/03	4/7/04	10/27/04	4/6/05	10/11/05	5/16/06	10/18/06	4/25/07	11/14/07	4/28/08	10/15/08	4/23/09	10/20/09	4/21/10	10/18/10	4/13/11	10/14/11
INORGANICS (mg/L)																									
Nitrite Nitrogen	ND	NS	**0.159**	NA	NA	**0.0143**	**0.0143**	NA	0.012	NA	**0.0152**	NA	**0.0407**	<0.0100	<0.0100	**0.0167**	<0.0100	<0.01	**0.0144**	<0.5	<0.01	<0.5	<0.50	<0.010	<0.100	<0.010
Nitrate/Nitrite Nitrogen	**0.063**	NS	NA	NA	NA	<0.0500	<0.0500	NA	0.16	NA	<0.0500	NA	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA	NA	<0.05
Chloride	**355**	NS	**85.6**	NA	NA	**208**	NA	NA	**1840**	NA	**3870**	**2180**	**2130**	**1860**	**1700**	**1200**	**1060**	**418**	**3500**	**1140**	**2240**	**594**	**7010**	**1460**	**7500**	**1940**
Dissolved Organic Carbon	**3.38**	NS	**141**	NA	NA	**15.7**	NA	NA	**173**	NA	**4.72**[TOC]	NA	**4.7**	**5.69**	**5.19**	**7.3**	**6.88**	**7.91**	**4.82**	**9.17**	**5.7**	**8.95**	NA	NA	NA	NA
Nitrate Nitrogen	**0.063**	NS	**0.634**	NA	NA	<0.0500	NA	NA	**0.148**	NA	<0.0500	<1.0	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.500	<0.500	<0.5	<0.05	**0.69**	0.84	<1.0	<1.0	NA
Total Alkalinity	**201**	NS	**167**	NA	NA	**259**	NA	NA	**575**	NA	**229**	NA	**270**	**289**	**296**	**349**	**402**	**359**	**231**	**439**	**318**	**282**	**229**	**381**	**262**	**424**
Sulfate	**40.2**	NS	**21.5**	NA	NA	**27.3**	NA	NA	**4.38**	NA	**43.3**	**5.96**	**31**	**6.32**	**24.4**	**12**	**21.5**	**2.29**	**51.2**	**2.75**	**9.4**	**15.5**	**99.9**	**7.3**	**64.1**	**4.3**
Total Sulfide	<1.00	NS	**1.18J**	NA	NA	ND	NA	NA	**3.44**	NA	**2.57**	<1.0	**1.24**	<1.00	<1.0	**1.27**	<1.0	**1.32**	<1.0	**2.76**	<0.01	<1.0	<1.0	**1.4**	<1.0	**2.2**
Total Iron	**462**	NS	**662**	NA	NA	**152**	NA	NA	**99.4**	NA	**238**	**998**	**377**	**11.3**	**9.31**	**7.3**	**2.96**	**8.57**	**10.5**	**9.35**	**8890**	**155**	**13.9**	**6.37**	**11.8**	**4.6**
Total Manganese	**11.8**	NS	NA	NA	NA	**4.1**	NA	NA	**3.02**	NA	**7.50**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)																										
Lactic Acid (C3)	<1.0	NS	NA	NA	**34.3**	**8.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Acetic Acid (C2)	<1.0	NS	NA	NA	**15.7**	**10.3**	**6.3**	**33.3**	**135**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Propionic Acid (C3)	<1.0	NS	NA	NA	**15.4**	**10.1**	**4.2**	**15.2**	**111**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Pyruvic Acid (C3)	<0.1	NS	NA	NA	**1.1**	<0.1	**2.4**	<0.1	<0.1	<0.1	<0.1	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	NA	NA	NA	NA
Butyric Acid (C4)	<1.0	NS	NA	NA	**8.2**	<1.0	<1.0	<1.0	**46.3**	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA
FIELD PARAMETERS																										
Dissolved Oxygen (mg/L)	**0.3**	**0.01**	NA	**0.27**	**1.07**	**0.49**	**2.18**	**0.46**	**0.38**	**0.4**	**3.39**	NA	**3.63**	NA	**1.19**	**2.85**	**1.39**	NA	NA	NA	NA	**0.86**	NA	**0.02**	**0**	**0.4**
Redox (mV)	**-280**	**-205**	NA	**-108**	**5**	**-196**	**-141**	**-131**	**-208**	**-36**	**211**	NA	**-106**	NA	**92**	**61**	**85**	NA	NA	NA	NA	**-84**	NA	**-339**	**-122**	**-194**
Conductivity (mS)	**1.61**	**0.68**	NA	**12.03**	**1.55**	**0.76**	**1.01**	**8.08**	**8.47**	**1.55**	**12.2**	NA	**7.73**	NA	**5.7**	**4.28**	**4.03**	NA	NA	NA	NA	**1.79**	NA	**5.37**	**23.2**	**0.76**
Iron, dissolved (mg/L)	ND	NA	NA	**0.2**	ND	ND	**0.5**	**0.9**	**2.8**	**1.8**	**1.8**	NA	**0.8**	NA	**1.5**	**0.2**	**0**	**0.9**	**0.8**	**0**	**2.4**	**0.3**	**1.3**	**1.6**	**4.6**	**1**
Alkalinity (mg/L)	**920**	NA	NA	**200**	**210**	**320**	**360**	**280**	**960**	**440**	**260**	NA	**100**	NA	**150**	**400**	**360**	**340**	**180**	**500**	**400**	**300**	**260**	**400**	**270**	**500**
Carbon Dioxide (mg/L)	**34**	NA	NA	**90**	**60**	**38**	**32.6**	**104**	**284**	**188**	**230**	NA	NA	NA	**24**	**148**	**210**	**150**	**90**	**100**	**160**	**140**	**116**	**225**	**194**	**37.9**

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	MW-502																								
Analyte	7/19/01	9/26/01	10/18/01	1/28/02	4/9/02	7/29/02	10/15/02	1/27/03	4/7/03	10/30/03	4/6/04	10/27/04	4/6/05	10/11/05	5/16/06	10/18/06	4/25/07	11/14/07	4/30/08	10/15/08	4/24/09	10/20/09	4/21/10	10/18/10	4/12/11	10/14/11
INORGANICS (mg/L)																									
Nitrite Nitrogen	**0.0389**	NS	ND	NA	NA	ND	NA	NA	<0.010	NA	<0.0100	NA	**0.066**	<0.0200	**0.0259**	**0.0183**	**<0.0200**	<0.0100	<0.200	<0.5	<0.05	<0.50	<0.50	<1.0	<1.0	<0.010
Nitrate/Nitrite Nitrogen	**0.137**	NS	NA	NA	NA	ND	NA	NA	<0.050	NA	<0.0500	NA	<0.200	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA	NA	<0.050
Chloride	**246**	NS	**241**	NA	NA	**84.6**	NA	NA	**281**	NA	**310**	**366**	**347**	**360**	**382**	**434**	**505**	**523**	**522**	**493**	**476**	**600**	**562**	**606**	**693**	**676**
Dissolved Organic Carbon	**5.21**	NS	**26.7**	NA	NA	**34.7**	NA	NA	**284**	NA	**639**[TOC]	**NA**	**903**	**545**	**190**	**167**	**87.4**	**59.6**	**54**	**14.3**	**13.9**	**12.7**	NA	NA	NA	NA
Nitrate Nitrogen	**0.137**	NS	**0.859**	NA	NA	ND	NA	NA	**0.139**	NA	<0.0500	<1.0	<0.200	<0.0500	<0.0500	<0.0500	<0.0500	<0.500	<0.500	<0.5	<0.05	<0.50	<0.50	<0.010	<0.010	NA
Total Alkalinity	**1.08**	NS	**94.4**	NA	NA	**125**	NA	NA	**531**	NA	**860**	**NA**	**1160**	**1160**	**998**	**1920**	**1000**	**1060**	**968**	**765**	**742**	**791**	**800**	**751**	**670**	**730**
Sulfate	**183**	NS	**56.2**	NA	NA	**4.74**	NA	NA	ND	NA	<2.00	<2.0	<2.0	<2.0	**3.13**	<0.200	<2.0	<2.0	<2.0	**2.46**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Sulfide	**1.08**	NS	**1.28**	NA	NA	**1.2**	NA	NA	**2.29**	NA	<1.00	<1.0	<1.0	<1.00	**29.3**	**1.24**	**4.33**	**2.68**	<1.0	**1.8**	<1.0	<1.0	**5.8**	**1.8**	<1.0	<1.0
Total Iron	**ND**	NS	**4.96**	NA	NA	**12**	NA	NA	**72.7**	NA	**282**	**1820**	**1960**	**1030**	**992**	**631**	**2940**	**2580**	**1350**	**1090**	**987**	**284**	**186**	**26**	**571**	**637**
Total Manganese	**0.317**	NS	NA	NA	NA	**0.259**	NA	NA	**1.77**	NA	**12.10**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)													**20x Dil.**	**10x Dil.**	**5x Dil.**											
Lactic Acid (C3)	<1.0	NS	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**23.8**	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Acetic Acid (C2)	<1.0	NS	NA	<1.0	**3.5**	**38.5**	**70.5**	**236**	**220**	**451**	**635**	<1.0	**400**	**660**	**120 D**	**150**	**75**	**79**	**87**	**7.8**	**7.7**	**6.1**	NA	NA	NA	NA
Propionic Acid (C3)	<1.0	NS	NA	<1.0	<1.0	**22.6**	**97.5**	**233**	**216**	**402**	**281**	<1.0	**870**	**470**	**260 D**	**200**	**37**	**14**	**1.5**	<1.0	<1.0	<1.0	NA	NA	NA	NA
Pyruvic Acid (C3)	<0.1	NS	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<10	<5.0	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	NA	NA	NA	NA
Butyric Acid (C4)	<1.0	NS	NA	<1.0	<1.0	<1.0	**20.2**	**54.8**	**62.9**	**99.7**	**113**	<2.0	<40	**74**	<2.0	<2.0	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA
FIELD PARAMETERS																										
Dissolved Oxygen (mg/L)	**2.9**	**0.51**	NA	**2.93**	**0.13**	**0.00**	**0.21**	**0.93**	**1.03**	**0.21**	**1.18**	NA	**0.41**	NA	**0.36**	**0.25**	**0**	**0.38**	**0**	**0**	**3.13***	**1.97**	**0**	**0.17**	**0**	**0.3**
Redox (mV)	**-264**	**-262**	NA	**28**	**-103**	**-117**	**-196**	**-118**	**-121**	**-13**	**-164**	NA	**-145**	NA	**93**	**88**	**-105**	**-112**	**-124**	**-168**	**-160**	**-116**	**-184**	**-131**	**-148**	**-157**
Conductivity (mS)	**0.64**	**0.98**	NA	**0.33**	**2.79**	**0.1**	**0.93**	**1.06**	**1.38**	**2.83**	**2.93**	NA	**13.42**	NA	**2.9**	**3.36**	**3.24**	**2.99**	**3.06**	**2.27**	**2.27**	**2.8**	**9.64**	**3.13**	**2.04**	**0.36**
Iron, dissolved (mg/L)	ND	NA	NA	ND	ND	ND	ND	**1.5**	**0.8**	**2.7**	**2.2**	NA	**2.8**	NA	**0.1**	**3**	**1**	**1.4**	NA	**1.5**	**0.5**	**1.6**	**0**	**1**	**4.2**	NA
Alkalinity (mg/L)	**120**	NA	NA	**75**	**54**	**220**	**200**	**140**	**440**	**1100**	NA	NA	**280**	NA	NA	**2300**	**1160**	**920**	**960**	NA	**820**	**920**	**2400**	**740**	**650**	**110**
Carbon Dioxide (mg/L)	**27.2**	NA	NA	**37.4**	**180**	**72**	**32.6**	**114**	**182**	**240**	NA	NA	NA	NA	**200**	**802**	**800**	**600**	NA	NA	**336**	**426**	**624**	NA	**3838**	NA

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	**OWS-302-S**																									
Analyte	7/19/01	9/26/01	10/18/01	1/28/02	4/9/02	7/29/02	10/15/02	1/28/03	4/7/03	10/30/03	4/8/04	10/27/04	4/6/05	10/12/05	5/16/06	10/17/06	4/25/07	11/14/07	4/30/08	10/15/08	4/23/09	10/20/09	4/21/10	10/18/10	4/13/11	10/14/11
INORGANICS (mg/L)																										
Nitrite Nitrogen	NA	NS	**0.143**	NA	NA	**0.03008**	NA	NA	**0.0279**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	<1.0	<100	0.031
Nitrate/Nitrite Nitrogen	NA	NS	NA	NA	NA	**0.0576**	NA	NA	**0.147**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.050
Chloride	NA	NS	**1600**	NA	NA	NA	NA	NA	**2370**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3070**	**2880**	**3670**	**3200**
Dissolved Organic Carbon	NA	NS	NA	NA	NA	**148**	NA	NA	**52.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	**604**	NA	NA	NA	NA	NA	NA	NA
Nitrate Nitrogen	NA	NS	<0.0500	NA	NA	<0.0500	NA	NA	**0.119**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<0.020	<2.0	<0.050
Total Alkalinity	NA	NS	**69.7**	NA	NA	**696**	NA	NA	**350**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1210**	**1150**	**622**	**958**
Sulfate	NA	NS	**228**	NA	NA	NS	NA	NA	**407**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**44.9**	**2.2**	**8.7**	<2.0
Total Sulfide	NA	NS	**3**	NA	NA	NS	NA	NA	**2.49**	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	**1.2**	<1.0	**4.2**	<1.0
Total Iron	NA	NS	NA	NA	NA	NS	NA	NA	**260**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**18.1**	**79.6**	**52.5**	**50.6**
Total Manganese	NA	NS	NA	NA	NA	NS	NA	NA	**5.62**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)													10x Dil.	10x Dil.	10x Dil						2x Dil.	5x Dil.				
Lactic Acid (C3)	NA	NS	NA	<1.0	**13.4**	**4.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<10	<1.0	<1.0	<1.0	<5.0	NA	**3.2**	<5.0	NA	NA	NA	NA
Acetic Acid (C2)	NA	NS	NA	<1.0	**293**	**286**	**240**	**297**	**90.8**	**443**	**623**	**65**	**290**	**1000**	**890**	**100**	**110**	**190**	**910**	NA	**770**	**690**	NA	NA	NA	NA
Propionic Acid (C3)	NA	NS	NA	<1.0	**9.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	**150**	**120**	**17**	**6**	**24**	**190**	NA	**220**	**200**	NA	NA	NA	NA
Pyruvic Acid (C3)	NA	NS	NA	<0.1	**0.5**	**1.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<5.0	<5.0	<5.0	<0.5	<0.5	<0.5	<2.5	NA	<1.0	<2.5	NA	NA	NA	NA
Butyric Acid (C4)	NA	NS	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**35.3**	<2.0	**23**	**100**	**77**	**14**	**7.9**	**9.8**	**88**	NA	**110**	**79**	NA	NA	NA	NA
FIELD PARAMETERS																										
Dissolved Oxygen (mg/L)	NA	NS	NA	NA	**1.74**	**1.24**	**2.23**	**8.5**	**0.11**	**1.7**	**6.88**	NS	**7.26**	NA	NS	**8.19**	**1.46**	NA	NA	NA	NA	NS	**0.86**	**3.08**	**4.66**	**0.7**
Redox (mV)	NA	NS	NA	NA	**-59**	**-133**	**-122**	**-51**	**-158**	**9**	**78**	NS	**-62**	NA	NS	**38**	**-126**	NA	NA	NA	NA	NS	**-63**	**-100**	**-156**	**-128**
Conductivity (mS)	NA	NS	NA	NA	**6.45**	**0.94**	**4.22**	**5.03**	**5.03**	**4.43**	**7.86**	NS	**13.09**	NA	NS	**1.65**	**24.4**	NA	NA	NA	NA	NS	**9**	**12.8**	**17.6**	**1.2**
Iron, dissolved (mg/L)	ND	NS	NA	NA	**3.3**	**5.9**	**5.2**	**3.8**	NA	**3**	**3.4**	NS	NA	NA	NS	**1.3**	**2.2**	**1.6**	**4**	**0**	NA	NS	**1.1**	**5.8**	**1.6**	**2.6**
Alkalinity (mg/L)	**640**	NS	NA	**580**	**600**	**720**	**820**	**520**	NA	**960**	**1200**	NS	NA	NA	NS	**720**	**520**	**320**	**1040**	**1160**	NA	NS	**920**	**1000**	**900**	**1000**
Carbon Dioxide (mg/L)	NA	NS	NA	NA	**358**	**260**	**38**	**475**	NA	**730**	**390**	NS	NA	NA	NS	**320**	**234**	NA	**600**	**264**	NA	NS	**526**	**589**	**1050**	**150**

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

* - The dissolved oxygen values detected may be a result of malfunctioning field equipment and may not be indicative of actual aquifer conditions.

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 and redox values will appear variable and may not be indicative of actual aquifer conditions.

Table V
Annual SSD System Monitoring

Location (Site/Facility Name):	**CooperVision**	Date:	**2011 Readings**
Location (Address):	**Scottsville, NY**	Performed By:	**M. Ramsdell / D. Nostrant**
Client:	**CooperVision**	Job Number:	**70665-018**

Test Point	4/11/2011 Vacuum Reading ("WC)	10/14/2011 Vacuum Reading ("WC)
T-1	Waxed Shut	0.022
T-2	*	*
T-3	0.655	0.654
T-4	0.020	0.033
T-5	0.044	0.062
T-6	0.058	0.076
T-7	-0.028**	-0.027**
T-8	0.010	0.007
T-9	-0.003/0.027***	-0.018
T-10	0.021	0.020
T-11	0.982	0.980
T-12	0.016	0.025
T-13	0.008	0.008
T-14	0.009	0.011
T-15	0.025	0.032
T-16	0.019	0.024
T-17	0.019	0.015
T-18	Obstructed	0.004

Suction Point	4/11/2011 Vacuum Reading ("WC)	10/14/2011 Vacuum Reading ("WC)
S-1	3.70	3.80
S-2	3.60	3.50
S-3	1.60	1.60
S-4/5	2.30	2.30
S-6	3.50	3.50
S-7	1.60	1.60

* T-2 is not a valid test point

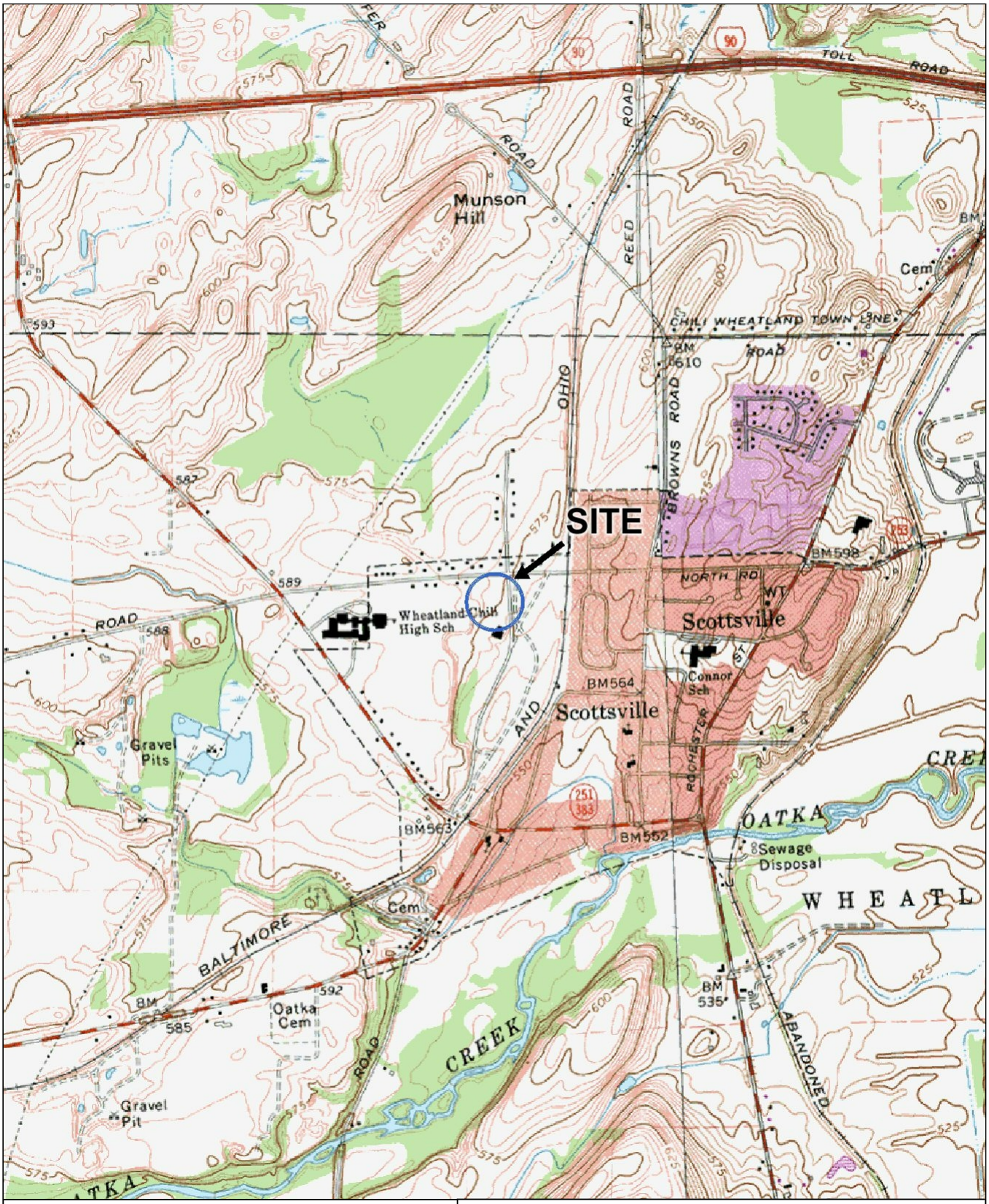
** with exterior doors closed

*** with interior doors open, -.003 with doors closed in April 2011; -.018 with doors closed in October 2011

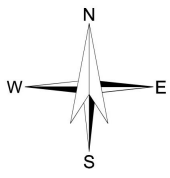
Visual Inspection of System:
Inspection showed all conditions acceptable.

Recommendation Actions:
No actions required

Description of Past Year Activities:
Inspection showed normal operation. Fan 1 was replaced in August as a precaution.



SITE COORDINATES:43°1'39"N 77°45'27"W



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

HALEY & ALDRICH

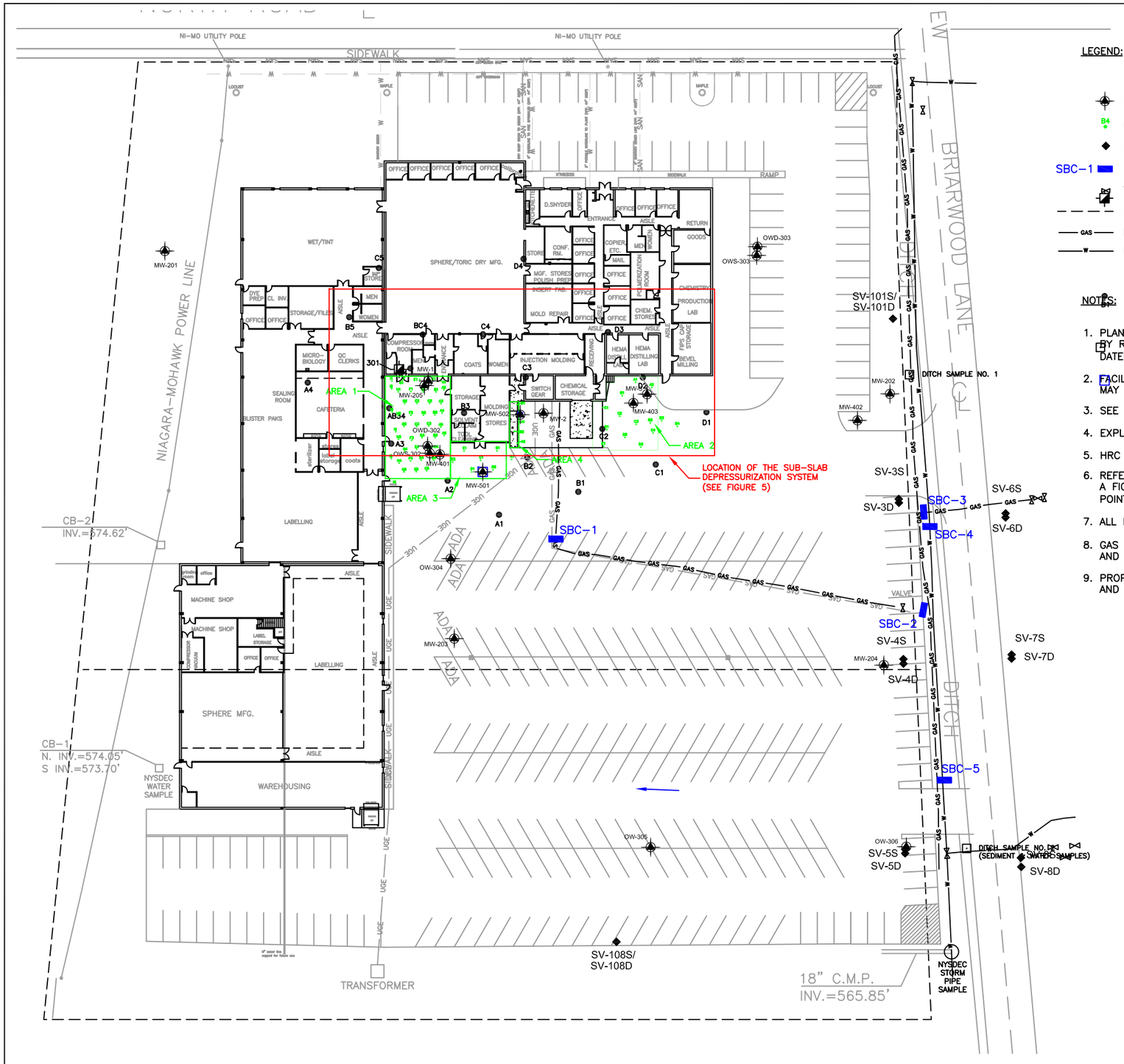
COOPERVISION, INC.
SCOTTSVILLE, NEW YORK

PROJECT LOCUS

SCALE: 1:24,000
MAY 2010

FIGURE 1

70665-014 1.PDF



LEGEND:

- MONITORING/OBSERVATION WELL
- B4 HRC INJECTION POINT LOCATION
- LOCATION OF SOIL VAPOR POINTS
- SBC-1 SOIL-BENTONITE-CEMENT COLLAR
- VALVE
- PROPERTY BOUNDARY
- GAS LOCATION OF KNOWN NATURAL GAS PIPELINE UTILITIES
- W 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.

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SCALE IN FEET

HALEY & ALDRICH

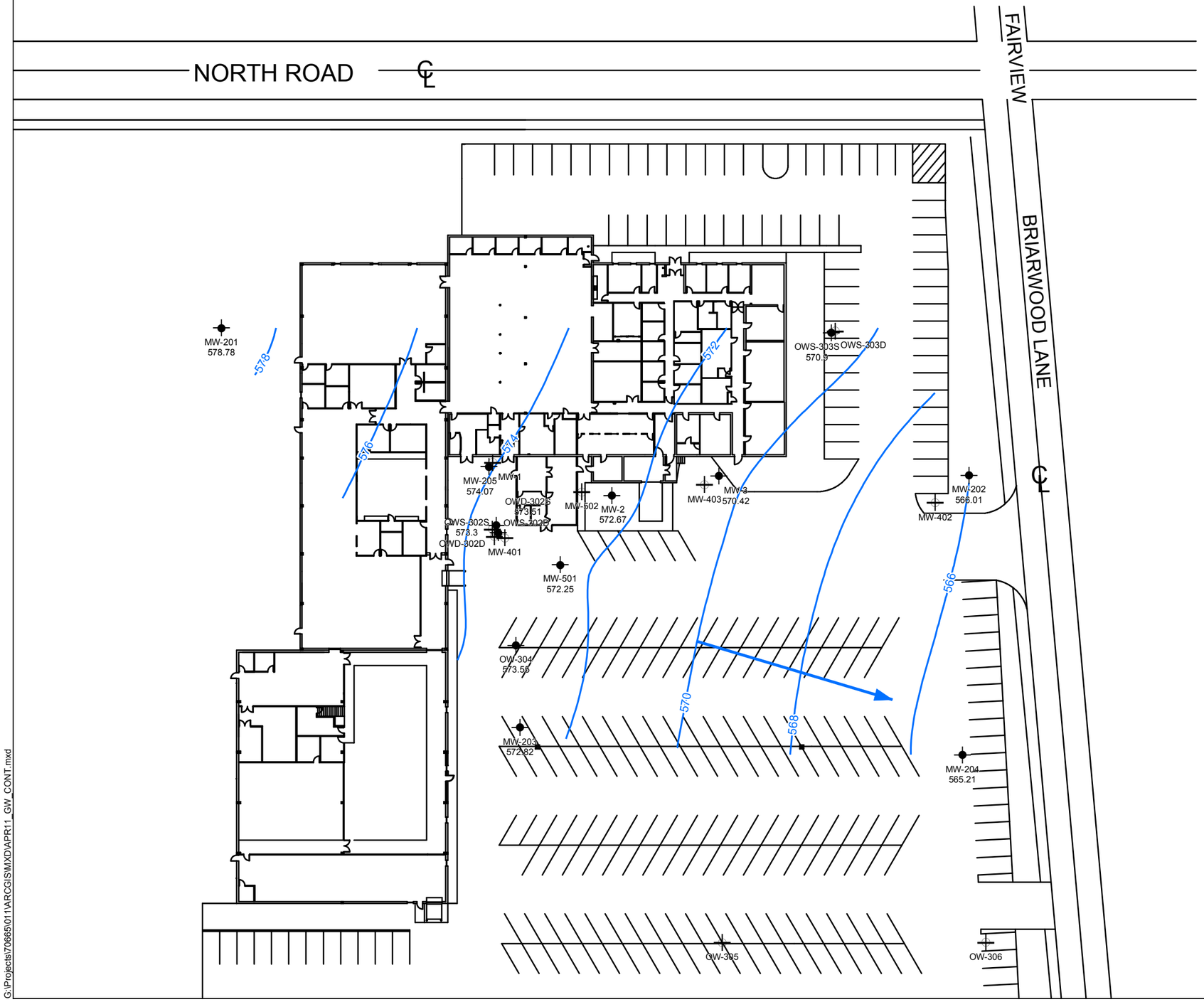
COOPERVISION FACILITY
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

SITE PLAN

SCALE: AS SHOWN
FEBRUARY 2012

FIGURE 2

G:\PROJECTS\70665\018 - ONGOING SUPPORT\CAD\2012-0214_70665-018_SITE PLAN.DWG



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 11 APRIL 2011. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
3. EXPLORATION LOCATIONS ARE APPROXIMATE.

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HALEY & ALDRICH

COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

GROUNDWATER CONTOUR PLAN (APRIL 2011)

SCALE: AS SHOWN
FEBRUARY 2012

FIGURE 3

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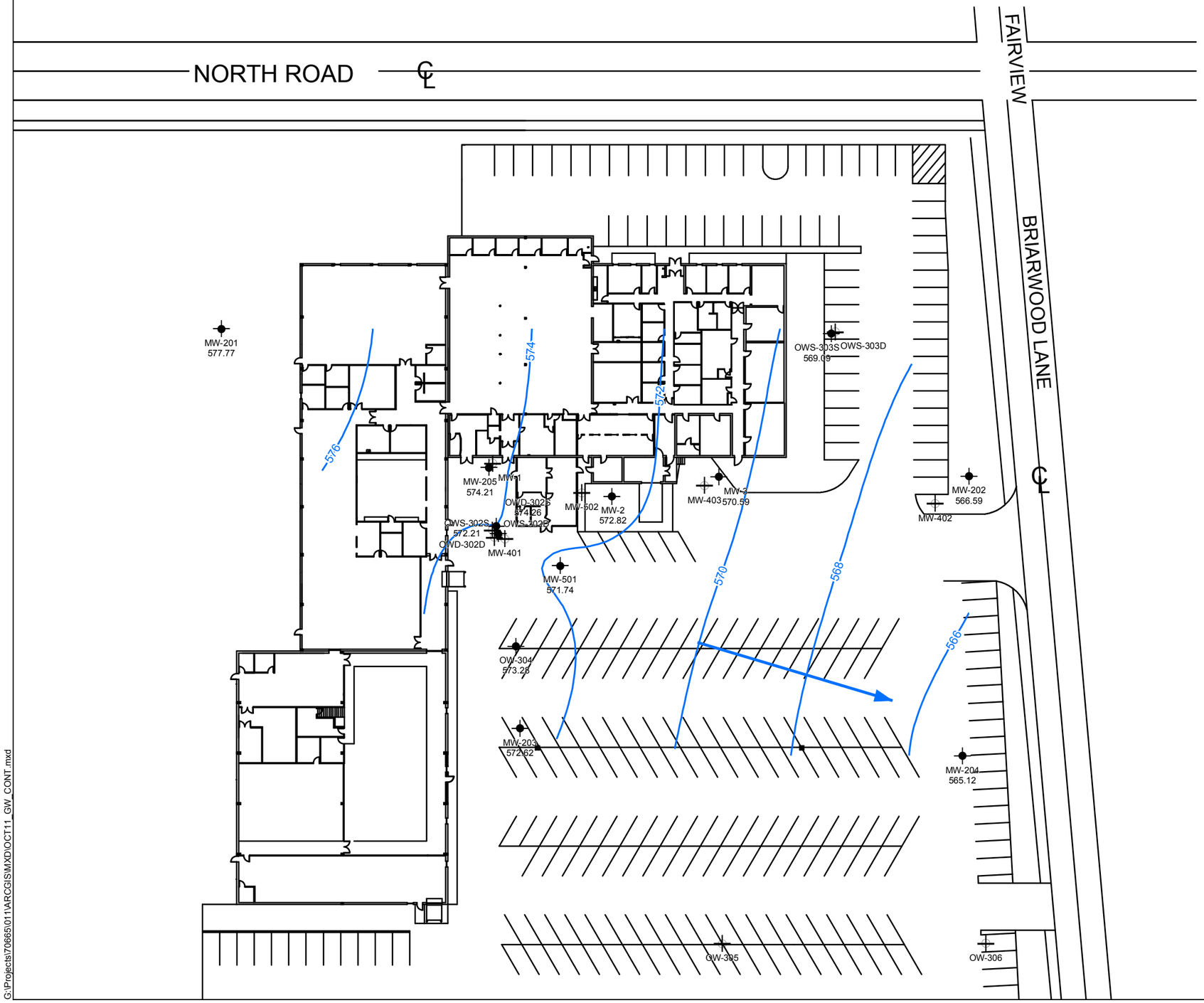

LEGEND:

- 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 13 OCTOBER 2011. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
3. EXPLORATION LOCATIONS ARE APPROXIMATE.

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HALEY & ALDRICH

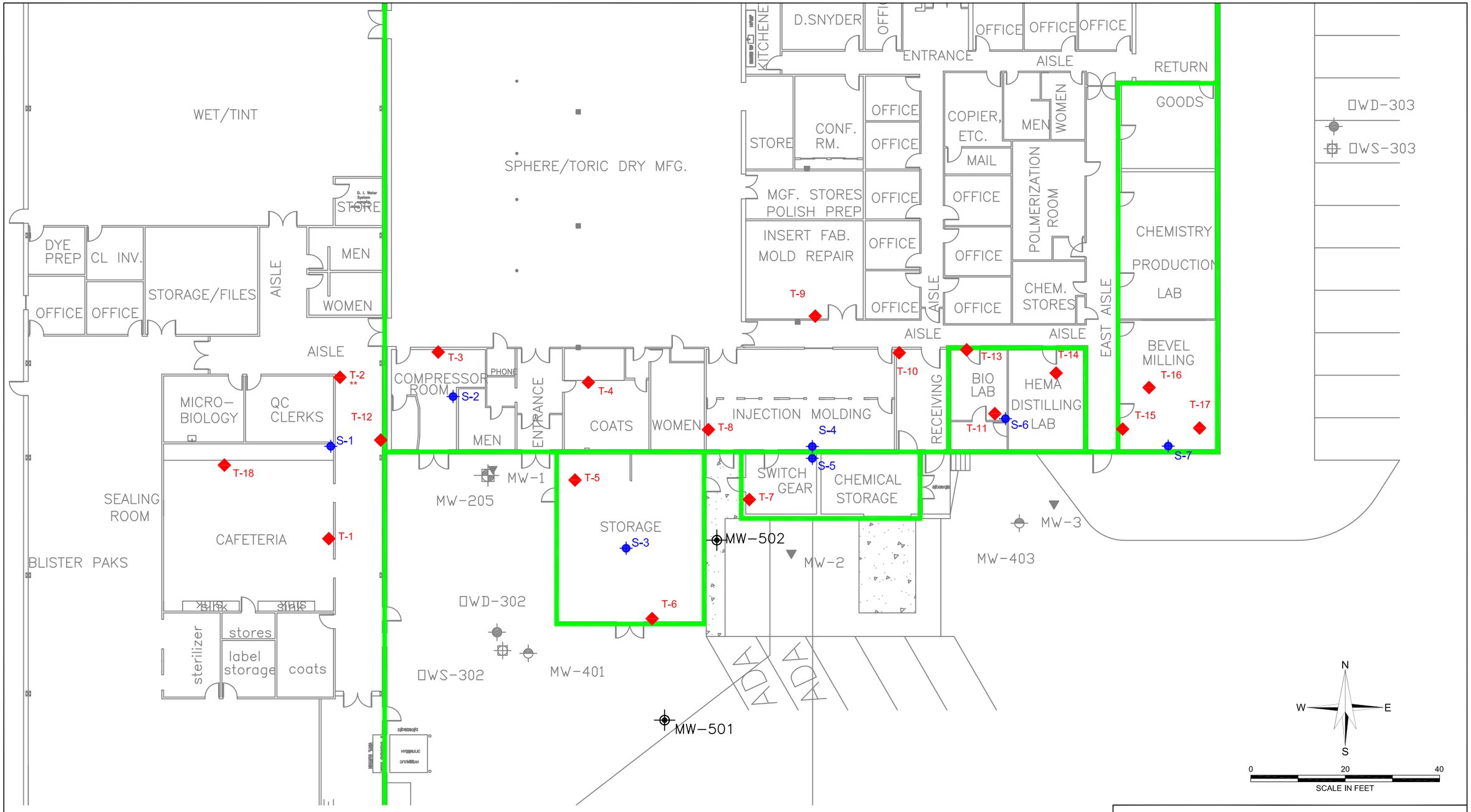
COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

GROUNDWATER CONTOUR PLAN (OCTOBER 2011)

SCALE: AS SHOWN
FEBRUARY 2012

FIGURE 4

G:\Projects\70665\011\ARCGIS\MXD\OCT11_GW_CONT.mxd



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 5

G:\PROJECTS\70665\018 - ONGOING SUPPORT\CAD\2012-0214_70665-018_SUB-SLAB DEPRESSURIZATION SYSTEM.DWG

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: ~~5.4~~ 5.517 acres

Reporting Period: November 29, 2010 to January 31, 2012

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

Box 2

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

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

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

Chuck V Rogers
Signature of Owner, Remedial Party or Designated Representative

2/29/12
Date

SITE NO. V00175 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
187.170-1-18	CooperVision, Inc	Ground Water Use Restriction Landuse Restriction Site Management Plan
187.170-1-18.1	CooperVision, Inc.	Ground Water Use Restriction Landuse Restriction Site Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
187.170-1-18	Cover System Subsurface Barriers Vapor Mitigation
187.170-1-18.1	Cover System Subsurface Barriers Vapor Mitigation

Engineering Control Details for Site No. V00175

Parcel: 187.170-1-18

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.

Parcel: 187.170-1-18.1

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.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☒	☐

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

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

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

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

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

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

YES	NO
☒	☐

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

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

Chuck Rogers — Signature of Owner, Remedial Party or Designated Representative

2/29/12 — 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 Chuck Rogers (print name) at CooperVision, 711 North Road, Scottsville, NY 14546 (print business address),

am certifying as Owner (Owner or Remedial Party)

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

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

2/24/12
Date

IC/EC CERTIFICATIONS

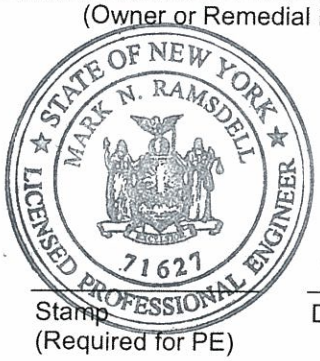
Box 7

Professional Engineer Signature

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

I Mark N. Ramsdell (print name) at Haley & Aldrich of New York, Rochester, NY 14623 (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 (Required for PE)

2/29/12
Date

APPENDIX B

Mann-Kendall Analysis Results

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

	2002-2011	
	Spring	Fall
Source Area		
MW-205		
1,1,1-TCA	**No Trend**	**No Trend**
1,1-DCA	**No Trend**	**No Trend**
1,1-DCE	**N/A**	**N/A**
Mid-Gradient Area		
MW-3		
1,1,1-TCA	**Decreasing**	**Decreasing**
1,1-DCA	**Decreasing**	**Decreasing**
1,1-DCE	**No Trend**	**No Trend**
MW-501		
1,1,1-TCA	**Decreasing**	**No Trend**
1,1-DCA	**No Trend**	**Decreasing**
1,1-DCE	**No Trend**	**No Trend**
MW-502		
1,1,1-TCA	**No Trend**	**No Trend**
1,1-DCA	**No Trend**	**No Trend**
1,1-DCE	**No Trend**	**No Trend**
Down-Gradient Area		
MW-202		
1,1,1-TCA	**No Trend**	**No Trend**
1,1-DCA	**Increasing**	**No Trend**
1,1-DCE	**Increasing**	**No Trend**
MW-204		
1,1,1-TCA	**No Trend**	**Decreasing**
1,1-DCA	**No Trend**	**No Trend**
1,1-DCE	**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 signficantly 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
Spring 2002	300	8.5	*0.125 U*	*0.0125 U*	*0.0025 U*	0.01
Spring 2003	320	*0.125 U*	*0.125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Spring 2004	140	0.9	*0.0125 U*	*0.0125 U*	*0.0025 U*	0.006
Spring 2005	76	0.23	*0.0125 U*	*0.125 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*
Spring 2007	41	0.14	*0.005 U*	*0.125 U*	*0.0025 U*	0.03
Spring 2008	42	*0.05 U*	*0.0125 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*
Spring 2010	140	*0.025 U*	*0.0065 U*	*0.125 U*	*0.0025 U*	*0.0025 U*
Spring 2011	130	*0.025 U*	*0.0125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Spring 2012						
Spring 2013						
Spring 2014						
Spring 2015						
Spring 2016						
Spring 2017						
Spring 2018						
Spring 2019						
Spring 2020						

Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Fall 2002	260	3.4	*0.025 U*	*0.0065 U*	*0.0025 U*	0.011
Fall 2003	250	0.23	*0.0125 U*	*0.25 U*	*0.0025 U*	0.006
Fall 2004	100	0.42	*0.0125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Fall 2005	80	0.17	*0.0125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Fall 2006	62	*0.05 U*	*0.005 U*	*0.0025 U*	*0.0025 U*	0.097
Fall 2007	84	*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*
Fall 2009	99	*0.05 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
Fall 2011	110	*0.025 U*	*0.0125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Fall 2012						
Fall 2013						
Fall 2014						
Fall 2015						
Fall 2016						
Fall 2017						
Fall 2018						
Fall 2019						
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
Spring 2002	290	2.4	9.9	0.82	*0.0025 U*	0.01
Spring 2003	290	8.4	7	13	*0.0025 U*	0.006
Spring 2004	200	1	0.56	0.52	*0.0025 U*	0.006
Spring 2005	240	0.68	0.79	6.8	*0.0025 U*	0.0068
Spring 2006	220	0.34	0.48	*0.025 U*	*0.0025 U*	*0.0025 U*
Spring 2007	230	0.93	0.31	0.054	*0.0025 U*	0.074
Spring 2008	200	0.36	0.15	*0.125 U*	0.0053	0.0056
Spring 2009	200	0.38	0.17	*0.125 U*	0.0093	0.0056
Spring 2010	230	0.1	0.088	*0.125 U*	0.013	0.0055
Spring 2011	300	0.098	0.15	*0.25 U*	0.016	0.0059
Spring 2012						
Spring 2013						
Spring 2014						
Spring 2015						
Spring 2016						
Spring 2017						
Spring 2018						
Spring 2019						
Spring 2020						

Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Fall 2002	260	3.9	2.2	11	*0.0025 U*	0.01
Fall 2003	210	0.56	0.4	1.5	*0.0025 U*	0.008
Fall 2004	230	3.1	0.6	*0.25 U*	*0.0025 U*	*0.0025 U*
Fall 2005	230	1	0.49	*0.25 U*	*0.0025 U*	0.0053
Fall 2006	270	0.51	0.29	0.016	*0.0025 U*	0.18
Fall 2007	390	0.22	0.24	*0.125 U*	0.0064	0.007
Fall 2008	200	0.36	0.09	*0.125 U*	*0.0025 U*	0.006
Fall 2009	200	0.21	0.11	*0.125 U*	0.011	0.0063
Fall 2010	220	0.16	0.089	*0.25 U*	*0.0025 U*	0.013
Fall 2011	230	0.052	0.1	*0.25 U*	0.03	0.0077
Fall 2012						
Fall 2013						
Fall 2014						
Fall 2015						
Fall 2016						
Fall 2017						
Fall 2018						
Fall 2019						
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
Spring 2002	--	2	*0.0125 U*	*0.0125 U*	*0.0025 U*	0.007
Spring 2003	--	1.2	*0.125 U*	*0.25 U*	*0.0025 U*	0.005
Spring 2004	--	0.33	*0.0125 U*	*0.14 U*	*0.0025 U*	0.006
Spring 2005	--	0.099	*0.0125 U*	*0.125 U*	*0.0025 U*	*0.0025 U*
Spring 2006	--	*0.05 U*	*0.025 U*	*0.025 U*	*0.0025 U*	*0.0025 U*
Spring 2007	--	*0.05 U*	*0.005 U*	*0.125 U*	*0.0025 U*	*0.0025 U*
Spring 2008	--	*0.05 U*	*0.0125 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*
Spring 2010	--	*0.025 U*	*0.0065 U*	*0.125 U*	0.0085	0.0053
Spring 2011	--	*0.025 U*	*0.0125 U*	*0.25 U*	0.01	*0.0025 U*
Spring 2012						
Spring 2013						
Spring 2014						
Spring 2015						
Spring 2016						
Spring 2017						
Spring 2018						
Spring 2019						
Spring 2020						

Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Fall 2002	--	1.4	*0.025 U*	*0.014*	*0.0025 U*	0.008
Fall 2003	--	0.57	*0.0125 U*	*0.25 U*	*0.0025 U*	0.005
Fall 2004	--	0.36	*0.0125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Fall 2005	--	0.1	*0.0125 U*	*0.25 U*	*0.0025 U*	*0.0025 U*
Fall 2006	--	*0.05 U*	*0.005 U*	*0.0025 U*	*0.0025 U*	0.009
Fall 2007	--	*0.05 U*	*0.0125 U*	*0.125 U*	0.0056	0.0067
Fall 2008	--	*0.05 U*	*0.0065 U*	*0.125 U*	*0.0025 U*	*0.0025 U*
Fall 2009	--	*0.05 U*	*0.0065 U*	*0.125 U*	0.0078	0.0067
Fall 2010	--	*0.025 U*	*0.0065 U*	*0.25 U*	*0.0025 U*	0.013
Fall 2011	--	*0.025 U*	*0.0125 U*	*0.25 U*	0.02	0.0087
Fall 2012	--					
Fall 2013	--					
Fall 2014	--					
Fall 2015	--					
Fall 2016	--					
Fall 2017	--					
Fall 2018	--					
Fall 2019	--					
Fall 2020	--					

Mann-Kendall Analysis: 1,1,1-TCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

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

MW-205

S Value

Neg	Pos
30	14
S Value	-16
n	10
P Value	0.078
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

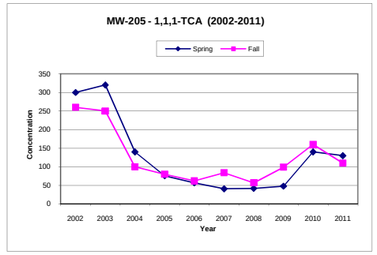
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	300	320	140	76	57	41	42	48	140	130
300		20	-160	-224	-243	-259	-258	-252	-160	-170
320			-180	-244	-263	-279	-278	-272	-180	-190
140				-64	-83	-99	-98	-92	0	-10
76					-19	-35	-34	-28	64	54
57						-16	-15	-9	83	73
41							1	7	99	89
42								6	98	88
48									92	82
140										-10
130										

S Value

Neg	Pos
27	18
S Value	-9
n	10
P Value	0.242
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	260	250	100	80	62	84	57	99	160	110
260		-10	-160	-180	-198	-176	-203	-161	-100	-150
250			-150	-170	-188	-166	-193	-151	-90	-140
100				-20	-38	-16	-43	-1	60	10
80					-18	4	-23	19	80	30
62						22	-5	37	98	48
84							-27	15	76	26
57								42	103	53
99									61	11
160										-50
110										



MW-3

S Value

Neg	Pos
37	4
S Value	-33
n	10
P Value	0.0011
Evaluation	**Decreasing**

Mann-Kendall Trend: Spring

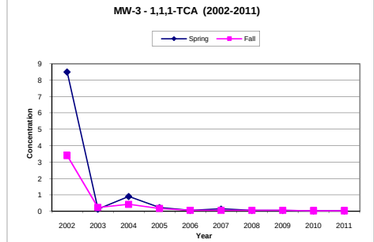
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	8.5	0.125	0.9	0.23	0.05	0.14	0.05	0.05	0.025	0.025
8.5		-8.375	-7.6	-8.27	-8.45	-8.36	-8.45	-8.45	-8.475	-8.475
0.125			0.775	0.105	-0.075	0.015	-0.075	-0.075	-0.1	-0.1
0.9				-0.67	-0.85	-0.76	-0.85	-0.85	-0.875	-0.875
0.23					-0.18	-0.09	-0.18	-0.18	-0.205	-0.205
0.05						0.09	0	0	-0.025	-0.025
0.14							-0.09	-0.09	-0.115	-0.115
0.05								0	-0.025	-0.025
0.05									-0.025	-0.025
0.025										0
0.025										

S Value

Neg	Pos
37	1
S Value	-36
n	10
P Value	0.00018
Evaluation	**Decreasing**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	3.4	0.23	0.42	0.17	0.05	0.05	0.05	0.05	0.025	0.025
3.4		-3.17	-2.98	-3.23	-3.35	-3.35	-3.35	-3.35	-3.375	-3.375
0.23			0.19	-0.06	-0.18	-0.18	-0.18	-0.18	-0.205	-0.205
0.42				-0.25	-0.37	-0.37	-0.37	-0.37	-0.395	-0.395
0.17					-0.12	-0.12	-0.12	-0.12	-0.145	-0.145
0.05						0	0	0	-0.025	-0.025
0.05							0	0	-0.025	-0.025
0.05								0	-0.025	-0.025
0.05									-0.025	-0.025
0.025										0
0.025										



MW-501

S Value

Neg	Pos
27	7
S Value	-20
n	10
P Value	0.036
Evaluation	**Decreasing**

Mann-Kendall Trend: Spring

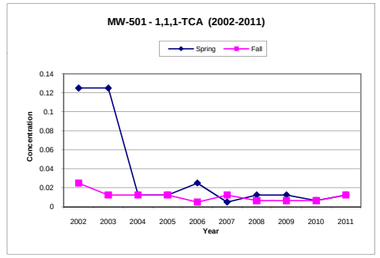
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.125	0.125	0.0125	0.0125	0.025	0.005	0.0125	0.0125	0.0065	0.0125
0.125		0	-0.1125	-0.1125	-0.1	-0.12	-0.1125	-0.1125	-0.1185	-0.1125
0.125			-0.1125	-0.1125	-0.1	-0.12	-0.1125	-0.1125	-0.1185	-0.1125
0.0125				0	0.0125	-0.0075	0	0	-0.006	0
0.0125					0.0125	-0.0075	0	0	-0.006	0
0.025						-0.02	-0.0125	-0.0125	-0.0185	-0.0125
0.005							0.0075	0.0075	0.0015	0.0075
0.0125								0	-0.006	0
0.0125									-0.006	0
0.0065										0.006
0.0125										

S Value

Neg	Pos
24	8
S Value	-16
n	10
P Value	0.078
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.025	0.0125	0.0125	0.0125	0.005	0.0125	0.0065	0.0065	0.0065	0.0125
0.025		-0.0125	-0.0125	-0.0125	-0.02	-0.0125	-0.0185	-0.0185	-0.0185	-0.0125
0.0125			0	0	-0.0075	0	-0.006	-0.006	-0.006	0
0.0125				0	-0.0075	0	-0.006	-0.006	-0.006	0
0.0125					-0.0075	0	-0.006	-0.006	-0.006	0
0.005						0.0075	0.0015	0.0015	0.0015	0.0075
0.0125							-0.006	-0.006	-0.006	0
0.0065								0	0	0.006
0.0065									0	0.006
0.0065										0.006
0.0125										



Mann-Kendall Analysis: 1,1,1-TCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

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

MW-502

S Value

Neg	Pos
8	25
S Value	17
n	10
P Value	0.078
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

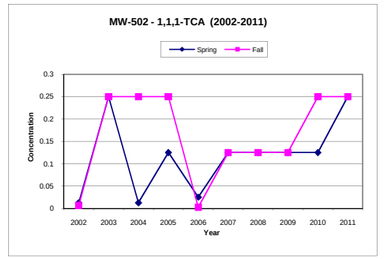
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0125	0.25	0.0125	0.125	0.025	0.125	0.125	0.125	0.125	0.25
0.0125		0.2375	0	0.1125	0.0125	0.1125	0.1125	0.1125	0.1125	0.2375
0.25			-0.2375	-0.125	-0.225	-0.125	-0.125	-0.125	-0.125	0
0.0125				0.1125	0.0125	0.1125	0.1125	0.1125	0.1125	0.2375
0.125					-0.1	0	0	0	0	0.125
0.025						0.1	0.1	0.1	0.1	0.225
0.125							0	0	0	0.125
0.125								0	0	0.125
0.125									0	0.125
0.125										0.125
0.25										

S Value

Neg	Pos
13	19
S Value	6
n	10
P Value	0.3
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0065	0.25	0.25	0.25	0.0025	0.125	0.125	0.125	0.25	0.25
0.0065		0.2435	0.2435	0.2435	-0.004	0.1185	0.1185	0.1185	0.2435	0.2435
0.25			0	0	-0.2475	-0.125	-0.125	-0.125	0	0
0.25				0	-0.2475	-0.125	-0.125	-0.125	0	0
0.25					-0.2475	-0.125	-0.125	-0.125	0	0
0.0025						0.1225	0.1225	0.1225	0.2475	0.2475
0.125							0	0	0.125	0.125
0.125								0	0.125	0.125
0.125									0.125	0.125
0.25										0
0.25										



MW-202

S Value

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

Mann-Kendall Trend: Spring

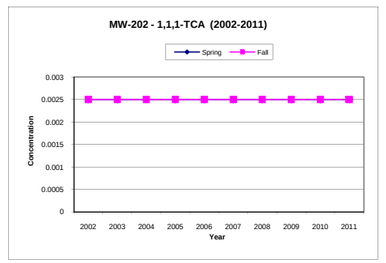
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0	0
0.0025					0	0	0	0	0	0
0.0025						0	0	0	0	0
0.0025							0	0	0	0
0.0025								0	0	0
0.0025									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	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
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
18	6
S Value	-12
n	10
P Value	0.146
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

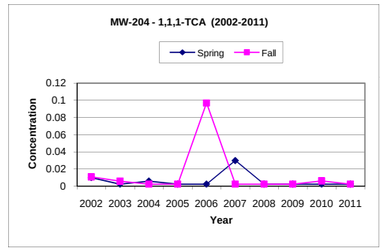
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.01	0.0025	0.006	0.0025	0.0025	0.03	0.0025	0.0025	0.0025	0.0025
0.01		-0.0075	-0.004	-0.0075	-0.0075	0.02	-0.0075	-0.0075	-0.0075	-0.0075
0.0025			0.0035	0	0	0.0275	0	0	0	0
0.006				-0.0035	-0.0035	0.024	-0.0035	-0.0035	-0.0035	-0.0035
0.0025					0	0.0275	0	0	0	0
0.0025						0.0275	0	0	0	0
0.03							-0.0275	-0.0275	-0.0275	-0.0275
0.0025								0	0	0
0.0025									0	0
0.0025										0
0.0025										

S Value

Neg	Pos
20	10
S Value	-10
n	10
P Value	0.019
Evaluation	**Decreasing**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.011	0.006	0.0025	0.0025	0.097	0.0025	0.0025	0.0025	0.0063	0.0025
0.011		-0.005	-0.0085	-0.0085	0.086	-0.0085	-0.0085	-0.0085	-0.0047	-0.0085
0.006			-0.0035	-0.0035	0.091	-0.0035	-0.0035	-0.0035	0.0003	-0.0035
0.0025				0	0.0945	0	0	0	0.0038	0
0.0025					0.0945	0	0	0	0.0038	0
0.097						-0.0945	-0.0945	-0.0945	-0.0907	-0.0945
0.0025							0	0	0.0038	0
0.0025								0	0.0038	0
0.0025									0.0038	0
0.0063										-0.0038
0.0025										



Mann-Kendall Analysis: 1,1-DCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

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

MW-205

S Value

Neg	Pos
23	17
S Value	-6
n	10
P Value	0.3
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

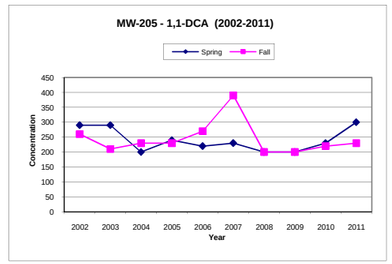
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	290	290	200	240	220	230	200	200	230	300
290		0	-90	-50	-70	-60	-90	-90	-60	10
290			-90	-50	-70	-60	-90	-90	-60	10
200				40	20	30	0	0	30	100
240					-20	-10	-40	-40	-10	60
220						10	-20	-20	10	80
230							-30	-30	0	70
200								0	30	100
200									30	100
230										70
300										

S Value

Neg	Pos
23	18
S Value	-5
n	10
P Value	0.364
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	260	210	230	230	270	390	200	200	220	230
260		-50	-30	-30	10	130	-60	-60	-40	-30
210			20	20	60	180	-10	-10	10	20
230				0	40	160	-30	-30	-10	0
230					40	160	-30	-30	-10	0
270						120	-70	-70	-50	-40
390							-190	-190	-170	-160
200								0	20	30
200									20	30
220										10
230										



MW-3

S Value

Neg	Pos
39	6
S Value	-33
n	10
P Value	0.0011
Evaluation	**Decreasing**

Mann-Kendall Trend: Spring

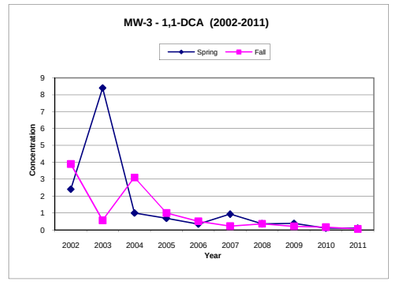
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	2.4	8.4	1	0.68	0.34	0.93	0.36	0.38	0.1	0.098
2.4		6	-1.4	-1.72	-2.06	-1.47	-2.04	-2.02	-2.3	-2.302
8.4			-7.4	-7.72	-8.06	-7.47	-8.04	-8.02	-8.3	-8.302
1				-0.32	-0.66	-0.07	-0.64	-0.62	-0.9	-0.902
0.68					-0.34	0.25	-0.32	-0.3	-0.58	-0.582
0.34						0.59	0.02	0.04	-0.24	-0.242
0.93							-0.57	-0.55	-0.83	-0.832
0.36								0.02	-0.26	-0.262
0.38									-0.28	-0.282
0.1										-0.002
0.098										

S Value

Neg	Pos
42	3
S Value	-39
n	10
P Value	0.000058
Evaluation	**Decreasing**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	3.9	0.56	3.1	1	0.51	0.22	0.36	0.21	0.16	0.052
3.9		-3.34	-0.8	-2.9	-3.39	-3.68	-3.54	-3.69	-3.74	-3.848
0.56			2.54	0.44	-0.05	-0.34	-0.2	-0.35	-0.4	-0.508
3.1				-2.1	-2.59	-2.88	-2.74	-2.89	-2.94	-3.048
1					-0.49	-0.78	-0.64	-0.79	-0.84	-0.948
0.51						-0.29	-0.15	-0.3	-0.35	-0.458
0.22							0.14	-0.01	-0.06	-0.168
0.36								-0.15	-0.2	-0.308
0.21									-0.05	-0.158
0.16										-0.108
0.052										



MW-501

S Value

Neg	Pos
41	3
S Value	-38
n	10
P Value	--
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

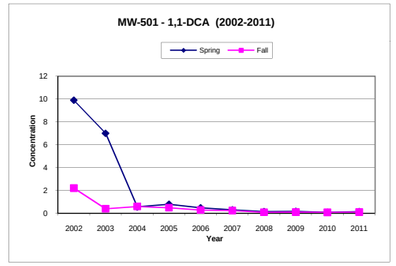
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	9.9	7	0.56	0.79	0.48	0.31	0.15	0.17	0.088	0.15
9.9		-2.9	-9.34	-9.11	-9.42	-9.59	-9.75	-9.73	-9.812	-9.75
7			-6.44	-6.21	-6.52	-6.69	-6.85	-6.83	-6.912	-6.85
0.56				0.23	-0.08	-0.25	-0.41	-0.39	-0.472	-0.41
0.79					-0.31	-0.48	-0.64	-0.62	-0.702	-0.64
0.48						-0.17	-0.33	-0.31	-0.392	-0.33
0.31							-0.16	-0.14	-0.222	-0.16
0.15								0.02	-0.062	0
0.17									-0.082	-0.02
0.088										0.062
0.15										

S Value

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

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	2.2	0.4	0.6	0.49	0.29	0.24	0.09	0.11	0.089	0.1
2.2		-1.8	-1.6	-1.71	-1.91	-1.96	-2.11	-2.09	-2.111	-2.1
0.4			0.2	0.09	-0.11	-0.16	-0.31	-0.29	-0.311	-0.3
0.6				-0.11	-0.31	-0.36	-0.51	-0.49	-0.511	-0.5
0.49					-0.2	-0.25	-0.4	-0.38	-0.401	-0.39
0.29						-0.05	-0.2	-0.18	-0.201	-0.19
0.24							-0.15	-0.13	-0.151	-0.14
0.09								0.02	-0.001	0.01
0.11									-0.021	-0.01
0.089										0.011
0.1										



Mann-Kendall Analysis: 1,1-DCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

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

MW-502

S Value

Neg	Pos
27	15
S Value	-12
n	10
P Value	0.146
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

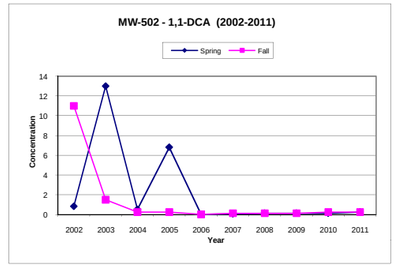
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.82	13	0.52	6.8	0.025	0.054	0.125	0.125	0.125	0.25
0.82		12.18	-0.3	5.98	-0.795	-0.766	-0.695	-0.695	-0.695	-0.57
13			-12.48	-6.2	-12.975	-12.946	-12.875	-12.875	-12.875	-12.75
0.52				6.28	-0.495	-0.466	-0.395	-0.395	-0.395	-0.27
6.8					-6.775	-6.746	-6.675	-6.675	-6.675	-6.55
0.025						0.029	0.1	0.1	0.1	0.225
0.054							0.071	0.071	0.071	0.196
0.125								0	0	0.125
0.125									0	0.125
0.125										0.125
0.25										

S Value

Neg	Pos
25	11
S Value	-14
n	10
P Value	0.108
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	11	1.5	0.25	0.25	0.016	0.125	0.125	0.125	0.25	0.25
11		-9.5	-10.75	-10.75	-10.984	-10.875	-10.875	-10.875	-10.75	-10.75
1.5			-1.25	-1.25	-1.484	-1.375	-1.375	-1.375	-1.25	-1.25
0.25				0	-0.234	-0.125	-0.125	-0.125	0	0
0.25					-0.234	-0.125	-0.125	-0.125	0	0
0.016						0.109	0.109	0.109	0.234	0.234
0.125							0	0	0.125	0.125
0.125								0	0.125	0.125
0.125									0.125	0.125
0.25										0
0.25										



MW-202

S Value

Neg	Pos
0	30
S Value	30
n	10
P Value	0.0023
Evaluation	**Increasing**

Mann-Kendall Trend: Spring

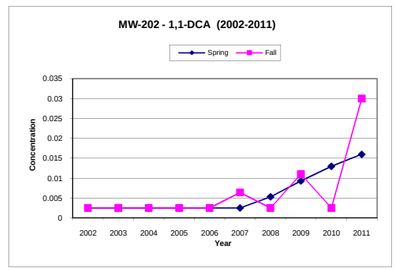
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0053	0.0093	0.013	0.016
0.0025		0	0	0	0	0	0.0028	0.0068	0.0105	0.0135
0.0025			0	0	0	0	0.0028	0.0068	0.0105	0.0135
0.0025				0	0	0	0.0028	0.0068	0.0105	0.0135
0.0025					0	0	0.0028	0.0068	0.0105	0.0135
0.0025						0	0.0028	0.0068	0.0105	0.0135
0.0053							0.0028	0.0068	0.0105	0.0135
0.0093								0.004	0.0077	0.0107
0.013									0.0037	0.0067
0.016										0.003

S Value

Neg	Pos
3	21
S Value	18
n	10
P Value	0.054
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0064	0.0025	0.011	0.0025	0.03
0.0025		0	0	0	0	0.0039	0	0.0085	0	0.0275
0.0025			0	0	0	0.0039	0	0.0085	0	0.0275
0.0025				0	0	0.0039	0	0.0085	0	0.0275
0.0025					0	0.0039	0	0.0085	0	0.0275
0.0025						0.0039	0	0.0085	0	0.0275
0.0064							-0.0039	0.0046	-0.0039	0.0236
0.0025								0.0085	0	0.0275
0.011									-0.0085	0.019
0.0025										0.0275
0.03										



MW-204

S Value

Neg	Pos
29	14
S Value	-15
n	10
P Value	0.108
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

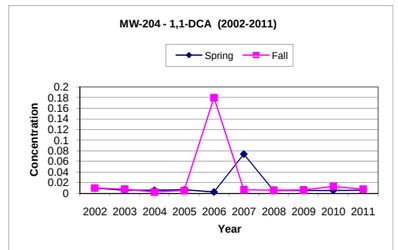
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.01	0.006	0.006	0.0068	0.0025	0.074	0.0056	0.0056	0.0055	0.0059
0.01		-0.004	-0.004	-0.0032	-0.0075	0.064	-0.0044	-0.0044	-0.0045	-0.0041
0.006			0	0.0008	-0.0035	0.068	-0.0004	-0.0004	-0.0005	-0.0001
0.006				0.0008	-0.0035	0.068	-0.0004	-0.0004	-0.0005	-0.0001
0.0068					-0.0043	0.0672	-0.0012	-0.0012	-0.0013	-0.0009
0.0025						0.0715	0.0031	0.0031	0.003	0.0034
0.074							-0.0684	-0.0684	-0.0685	-0.0681
0.0056								0	-0.0001	0.0003
0.0056									-0.0001	0.0003
0.0055										0.0004
0.0059										

S Value

Neg	Pos
21	24
S Value	3
n	10
P Value	0.431
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.01	0.008	0.0025	0.0053	0.18	0.007	0.006	0.0063	0.013	0.0077
0.01		-0.002	-0.0075	-0.0047	0.17	-0.003	-0.004	-0.0037	0.003	-0.0023
0.008			-0.0055	-0.0027	0.172	-0.001	-0.002	-0.0017	0.005	-0.0003
0.0025				0.0028	0.1775	0.0045	0.0035	0.0038	0.0105	0.0052
0.0053					0.1747	0.0017	0.0007	0.001	0.0077	0.0024
0.18						-0.173	-0.174	-0.1737	-0.167	-0.1723
0.007							-0.001	-0.0007	0.006	0.0007
0.006								0.0003	0.007	0.0017
0.0063									0.0067	0.0014
0.013										-0.0053
0.0077										



Mann-Kendall Analysis: 1,1-DCE (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V000157-8

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

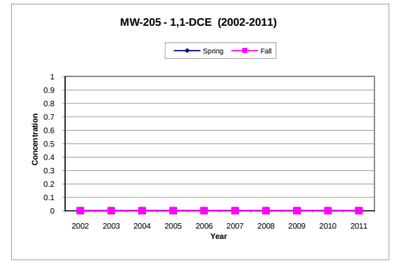
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0
					0	0	0	0	0	0
						0	0	0	0	0
							0	0	0	0
								0	0	0
									0	0
										0

S Value

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

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
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



MW-3

S Value

Neg	Pos
38	0
S Value	-38
n	10
P Value	--
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

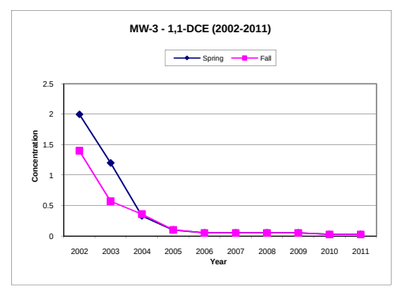
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	2	1.2	0.33	0.099	0.05	0.05	0.05	0.05	0.025	0.025
2		-0.8	-1.67	-1.901	-1.95	-1.95	-1.95	-1.95	-1.975	-1.975
1.2			-0.87	-1.101	-1.15	-1.15	-1.15	-1.15	-1.175	-1.175
0.33				-0.231	-0.28	-0.28	-0.28	-0.28	-0.305	-0.305
0.099					-0.049	-0.049	-0.049	-0.049	-0.074	-0.074
0.05						0	0	0	-0.025	-0.025
0.05							0	0	-0.025	-0.025
0.05								0	-0.025	-0.025
0.05									-0.025	-0.025
0.025										0
0.025										

S Value

Neg	Pos
38	0
S Value	-38
n	10
P Value	--
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	1.4	0.57	0.36	0.1	0.05	0.05	0.05	0.05	0.025	0.025
1.4		-0.83	-1.04	-1.3	-1.35	-1.35	-1.35	-1.35	-1.375	-1.375
0.57			-0.21	-0.47	-0.52	-0.52	-0.52	-0.52	-0.545	-0.545
0.36				-0.26	-0.31	-0.31	-0.31	-0.31	-0.335	-0.335
0.1					-0.05	-0.05	-0.05	-0.05	-0.075	-0.075
0.05						0	0	0	-0.025	-0.025
0.05							0	0	-0.025	-0.025
0.05								0	-0.025	-0.025
0.05									-0.025	-0.025
0.025										0
0.025										



MW-501

S Value

Neg	Pos
21	9
S Value	-12
n	10
P Value	0.146
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

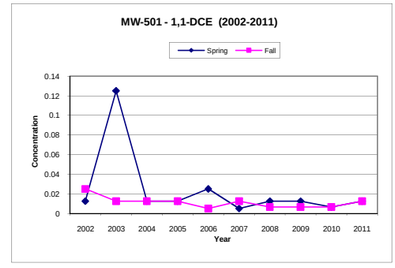
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0125	0.125	0.0125	0.0125	0.025	0.005	0.0125	0.0125	0.0065	0.0125
0.0125		0.1125	0	0	0.0125	-0.0075	0	0	-0.006	0
0.125			-0.1125	-0.1125	-0.1	-0.12	-0.1125	-0.1125	-0.1185	-0.1125
0.0125				0	0.0125	-0.0075	0	0	-0.006	0
0.0125					0.0125	-0.0075	0	0	-0.006	0
0.025						-0.02	-0.0125	-0.0125	-0.0185	-0.0125
0.005							0.0075	0.0075	0.0015	0.0075
0.0125								0	-0.006	0
0.0125									-0.006	0
0.0065										0.006
0.0125										

S Value

Neg	Pos
24	8
S Value	-16
n	10
P Value	0.078
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.025	0.0125	0.0125	0.0125	0.005	0.0125	0.0065	0.0065	0.0065	0.0125
0.025		-0.0125	-0.0125	-0.0125	-0.02	-0.0125	-0.0185	-0.0185	-0.0185	-0.0125
0.0125			0	0	-0.0075	0	-0.006	-0.006	-0.006	0
0.0125				0	-0.0075	0	-0.006	-0.006	-0.006	0
0.0125					-0.0075	0	-0.006	-0.006	-0.006	0
0.005						0.0075	0.0015	0.0015	0.0015	0.0075
0.0125							-0.006	-0.006	-0.006	0
0.0065								0	0	0.006
0.0065									0	0.006
0.0065										0.006
0.0125										



Mann-Kendall Analysis: 1,1-DCE (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

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

MW-502

S Value

Neg	Pos
14	20
S Value	6
n	10
P Value	0.3
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

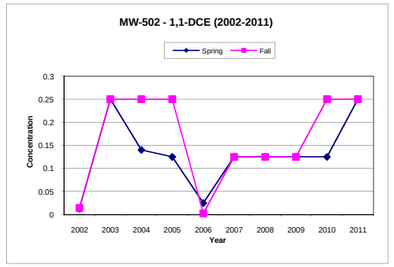
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0125	0.25	0.14	0.125	0.025	0.125	0.125	0.125	0.125	0.25
0.0125		0.2375	0.1275	0.1125	0.0125	0.1125	0.1125	0.1125	0.1125	0.2375
0.25			-0.11	-0.125	-0.225	-0.125	-0.125	-0.125	-0.125	0
0.14				-0.015	-0.115	-0.015	-0.015	-0.015	-0.015	0.11
0.125					-0.1	0	0	0	0	0.125
0.025						0.1	0.1	0.1	0.1	0.225
0.125							0	0	0	0.125
0.125								0	0	0.125
0.125									0	0.125
0.125										0.125
0.25										

S Value

Neg	Pos
13	19
S Value	6
n	10
P Value	0.3
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.014	0.25	0.25	0.25	0.0025	0.125	0.125	0.125	0.25	0.25
0.014		0.236	0.236	0.236	-0.0115	0.111	0.111	0.111	0.236	0.236
0.25			0	0	-0.2475	-0.125	-0.125	-0.125	0	0
0.25				0	-0.2475	-0.125	-0.125	-0.125	0	0
0.25					-0.2475	-0.125	-0.125	-0.125	0	0
0.0025						0.1225	0.1225	0.1225	0.2475	0.2475
0.125							0	0	0.125	0.125
0.125								0	0.125	0.125
0.125									0.125	0.125
0.25										0
0.25										



MW-202

S Value

Neg	Pos
0	24
S Value	24
n	10
P Value	0.014
Evaluation	**Increasing**

Mann-Kendall Trend: Spring

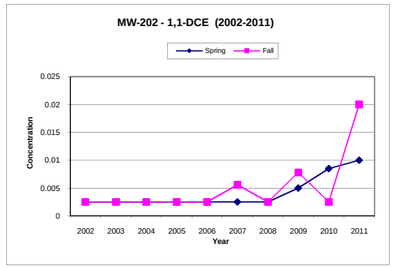
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.005	0.0085	0.01
0.0025		0	0	0	0	0	0	0.0025	0.006	0.0075
0.0025			0	0	0	0	0	0.0025	0.006	0.0075
0.0025				0	0	0	0	0.0025	0.006	0.0075
0.0025					0	0	0	0.0025	0.006	0.0075
0.0025						0	0	0.0025	0.006	0.0075
0.0025							0	0.0025	0.006	0.0075
0.0025								0.0025	0.006	0.0075
0.005									0.0035	0.005
0.0085										0.0015
0.01										

S Value

Neg	Pos
3	21
S Value	18
n	10
P Value	0.054
Evaluation	**No Trend**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0056	0.0025	0.0078	0.0025	0.02
0.0025		0	0	0	0	0.0031	0	0.0053	0	0.0175
0.0025			0	0	0	0.0031	0	0.0053	0	0.0175
0.0025				0	0	0.0031	0	0.0053	0	0.0175
0.0025					0	0.0031	0	0.0053	0	0.0175
0.0025						0.0031	0	0.0053	0	0.0175
0.0056							-0.0031	0.0022	-0.0031	0.0144
0.0025								0.0053	0	0.0175
0.0078									-0.0053	0.0122
0.0025										0.0175
0.02										



MW-204

S Value

Neg	Pos
23	7
S Value	-16
n	10
P Value	0.078
Evaluation	**No Trend**

Mann-Kendall Trend: Spring

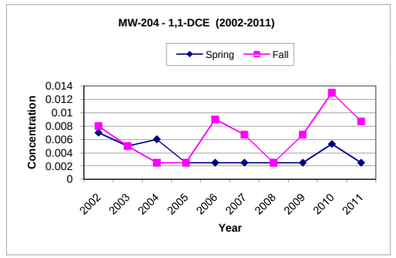
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.007	0.005	0.006	0.0025	0.0025	0.0025	0.0025	0.0025	0.0053	0.0025
0.007		-0.002	-0.001	-0.0045	-0.0045	-0.0045	-0.0045	-0.0045	-0.0017	-0.0045
0.005			0.001	-0.0025	-0.0025	-0.0025	-0.0025	-0.0025	0.0003	-0.0025
0.006				-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0007	-0.0035
0.0025					0	0	0	0	0.0028	0
0.0025						0	0	0	0.0028	0
0.0025							0	0	0.0028	0
0.0025								0	0.0028	0
0.0025									0.0028	0
0.0053										-0.0028
0.0025										

S Value

Neg	Pos
15	26
S Value	11
n	10
P Value	0.019
Evaluation	**Increasing**

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Data	0.008	0.005	0.0025	0.0025	0.009	0.0067	0.0025	0.0067	0.013	0.0087
0.008		-0.003	-0.0055	-0.0055	0.001	-0.0013	-0.0055	-0.0013	0.005	0.0007
0.005			-0.0025	-0.0025	0.004	0.0017	-0.0025	0.0017	0.008	0.0037
0.0025				0	0.0065	0.0042	0	0.0042	0.0105	0.0062
0.0025					0.0065	0.0042	0	0.0042	0.0105	0.0062
0.009						-0.0023	-0.0065	-0.0023	0.004	-0.0003
0.0067							-0.0042	0	0.0063	0.002
0.0025								0.0042	0.0105	0.0062
0.0067									0.0063	0.002
0.013										-0.0043
0.0087										



APPENDIX C

SSD System Maintenance and Monitoring Documentation

John Hogan

Mark, we had to replace one fan in 2011. It was in location # 1 (cafeteria)But that fan was never down.
I heard it making a load noise and got it replaced before it failed. Attached is the invoice for the fan.

CooperVision™

John Hogan, *Manager Facilities & Maintenance*
711 North Road, Scottsville, NY 14546
P(585) 264-3226 | f: (585) 889-5688
jhogan@coopervision.com

mitigation tech *vapor intrusion specialists*

INVOICE

September 2, 2011

Mr. John Hogan
Manager Facilities & Maintenance
Coopervision, Inc.
711 North Road
Scottsville, NY 14546
Via email: jhogan@coopervision.com

Re: **Sub-slab Vent System Fan** -711 North Road
Cafeteria System – Roof mount fan

Furnished and Installed – (September 2, 2011)

- (1) RADONAWAY GP-501 inline centrifugal fan
- Three year warranty

Balance Due $485.00

Thank you.

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 * OFFICE/FAX 585-637-7430

#1

SUB - SLAB	DEPRESSURIZATION SYSTEM	READING ARE	IN INCHES OF WATER	LOCATION NUMBERS
Date	Location by #	Manometer readings	Preformed By	
10-20-10	#1	3.8	[illegible]	Cafeteria is # 1
11-19-10	#1	3.4	[illegible]	Compressor room is # 2
12-14-10	#1	3.9	[illegible]	Utility Room is # 3
1-13-11	#1	3.9	[illegible]	Back room in Molding is # 4
2-11-11	#1	4	[illegible]	Main switch gear room is # 5
2-14-11	#1	3.8	mg	Micro Bio. Lab. # 6
3/16/11	#1	3.9	mg	Bevel Mill room # 7
4/13/11	#1	3.8	mg	

Note: # 4 & # 5 are on the same system

#1

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE N INCHES OF WATER (in.w.c.)

Date	Location #	Manometer readings (in.w.c)	Preformed By	Comments/Remarks
5/13/11	#1	3.6	MS	
6/11/11	#1	3.6	MS	
7/11/11	#1	3.6	MS	
8/10/11	#1	3.6	mg	
9/8/11	#1	3.7	mg	
10/7/11	#1	3.8	MS	
11/5/11	#1	3.9	MS	
12/6/11	#1	3.9	mg	

Location # 1 Rochester (aka Cafeteria)
2 Honeoye Falls (aka Compressor Room)
3 Hilton (aka Utility Room)
4 & 5 Greece / Palmyra (aka Molding / Switch Gear)
6 Spencerport (aka MicroBio Lab)
7 Brockport (aka Bevel Mill Room)

Note: # 4 & # 5 are on the same system

#2

SUB - SLAB	DEPRESSURIZATION SYSTEM	READING ARE	IN INCHES OF WATER	LOCATION NUMBERS
Date	Location by #	Manometer readings	Preformed By	
10-20-10	#3	3.8	[illegible]	Cafeteria is # 1
11-19-10	#3	3.9	[illegible]	Compressor room is # 2
12-14-10	#3	3.9	[illegible]	Utility Room is # 3
1-13-11	#2	4	[illegible]	Back room in Molding is # 4
2-11-11	#2	4	[illegible]	Main switch gear room is # 5
2/14/11	#2	3.7	mg	Micro Bio. Lab. # 6
3/16/11	#2	3.8	mg	Bevel Mill room # 7
4/13/11	#2	3.7	mg	

Note: # 4 & # 5 are on the same system

#2

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE N INCHES OF WATER (in.w.c.)

Date	Location #	Manometer readings (in.w.c)	Preformed By	Comments/Remarks
5/13/11	2	3.6	MS	
6/11/11	2	3.6	MS	
7/11/11	2	3.6	MS	
8/10/11	2	3.5	mg F	
9/8/11	2	3.6	[illegible]	
10/7/11	2	3.7	MS	
11/6/11	2	3.8	[illegible]	
12/6/11	2	3.7	mg MS	

Location # 1 Rochester (aka Cafeteria)
2 Honeoye Falls (aka Compressor Room)
3 Hilton (aka Utility Room)
4 & 5 Greece / Palmyra (aka Molding / Switch Gear)
6 Spencerport (aka MicroBio Lab)
7 Brockport (aka Bevel Mill Room)

Note: # 4 & # 5 are on the same system

#3

SUB - SLAB	DEPRESSURIZATION SYSTEM	READING ARE	IN INCHES OF WATER	LOCATION NUMBERS
Date	Location by #	Manometer readings	Preformed By	
10-20-10	#3	1.6		Cafeteria is # 1
11-19-10	#3	1.7		Compressor room is # 2
12-14-10	#3	1.7		Utility Room is # 3
1-13-10	#3	1.7		Back room in Molding is # 4
2-11-11	#3	1.7		Main switch gear room is # 5
2/14/11	#3	1.7		Micro Bio. Lab. # 6
3/16/11	3	1.6		Bevel Mill room # 7
4/13/11	3	1.7		

Note: # 4 & # 5 are on the same system

#3

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE N INCHES OF WATER (in.w.c.)

Date	Location #	Manometer readings (in.w.c)	Preformed By	Comments/Remarks
5/13/11	3	1.6	MS	
6/11/11	3	1.6	MS	
7/11/11	3	1.6	MS	
8/10/11	3	1.6	MS	
9/8/11	3	1.6	MS	
10/7/11	3	1.5	MS	
11/6/11	3	1.7	MS	
12/5/2011	3	1.7	MS	

Location # 1 Rochester (aka Cafeteria)
2 Honeoye Falls (aka Compressor Room)
3 Hilton (aka Utility Room)
4 & 5 Greece / Palmyra (aka Molding / Switch Gear)
6 Spencerport (aka MicroBio Lab)
7 Brockport (aka Bevel Mill Room)

Note: # 4 & # 5 are on the same system

#4-5

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE IN INCHES OF WATER				LOCATION NUMBERS
Date	Location by #	Manometer readings	Preformed By	
10-20-10	#4+5	2.2	[illegible]	Cafeteria is # 1
11-19-10	#4+5	2.2	[illegible]	Compressor room is # 2
12-14-10	#4+5	2.3	[illegible]	Utility Room is # 3
1-13-10	#4+5	2.2	[illegible]	Back room in Molding is # 4
2-11-11	#4+5	2.2	[illegible]	Main switch gear room is # 5
2/14/11	#4@5	2.2	mg	Micro Bio. Lab. # 6
3/10/11	4@5	3.4	mg	Bevel Mill room # 7
4/13/11	4&5	2.6	mg	

Note: # 4 & # 5 are on the same system

#4 and #5

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE N INCHES OF WATER (in.w.c.)

Date	Location #	Manometer readings (in.w.c)	Preformed By	Comments/Remarks
5/13/11	W, 5	2.4	MS	
6/11/11	W, 5	2.4	MS	
7/12/11	W, 5	2.4	MS	
8/10/11	W, 5	2.2	AMJ	
9/8/11	W, 5	2.4	AMJ	
10/7/11	W, 5	2.4	MS	
11/16/11	W, 5	2.4	MS	
12/6/11	W, 5	2.4	AMJ	

Location # 1 Rochester (aka Cafeteria)
2 Honeoye Falls (aka Compressor Room)
3 Hilton (aka Utility Room)
4 & 5 Greece / Palmyra (aka Molding / Switch Gear)
6 Spencerport (aka MicroBio Lab)
7 Brockport (aka Bevel Mill Room)

Note: # 4 & # 5 are on the same system

#6

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE IN INCHES OF WATER LOCATION NUMBERS

Date	Location by #	Manometer readings	Preformed By	
11-19-10	#6	3.7	[illegible]	Cafeteria is # 1
12-14-10	#6	3.7	[illegible]	Compressor room is # 2
1-13-11	#6	3.7	[illegible]	Utility Room is # 3
2-11-11	#6	3.8	[illegible]	Back room in Molding is # 4
2/14/11	#6	3.6	[illegible]	Main switch gear room is # 5
3/16/11	6	3.7	[illegible]	Micro Bio. Lab. # 6
4/13/11	#6	3.6	[illegible]	Bevel Mill room # 7

Note: # 4 & # 5 are on the same system

#6

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE N INCHES OF WATER (in.w.c.)

Date	Location #	Manometer readings (in.w.c)	Preformed By	Comments/Remarks
5/13/11	6	3.4	MS	
6/11/11	6	3.5	MS	
7/11/11	6	3.5	MS	
8/10/11	6	3.5	MJ	
9/8/11	6	3.5	MJ	
10/7/11	6	3.6	MS	
11/6/11	6	3.7	MS	
12/5/11	6	3.6	MJ	

Location # 1 Rochester (aka Cafeteria)
2 Honeoye Falls (aka Compressor Room)
3 Hilton (aka Utility Room)
4 & 5 Greece / Palmyra (aka Molding / Switch Gear)
6 Spencerport (aka MicroBio Lab)
7 Brockport (aka Bevel Mill Room)

Note: # 4 & # 5 are on the same system

#7

SUB - SLAB	DEPRESSURIZATION SYSTEM	READING ARE	IN INCHES OF WATER	LOCATION NUMBERS
Date	Location by #	Manometer readings	Preformed By	
10-20-10	#7	1.7		Cafeteria is # 1
11-19-10	#7	1.7		Compressor room is # 2
12-14-10	#7	1.7		Utility Room is # 3
1-13-11	#7	1.7		Back room in Molding is # 4
2-11-11	#7	1.7		Main switch gear room is # 5
2/14/11	7	1.7		Micro Bio. Lab. # 6
3/14/11	7	1.8		Bevel Mill room # 7
4/13/11	7	1.8		

Note: # 4 & # 5 are on the same system

#7

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE IN INCHES OF WATER (in.w.c.)

Date	Location #	Manometer readings (in.w.c)	Preformed By	Comments/Remarks
5/13/11	7	1.6	MS	
6/11/11	7	1.6	MS	
7/11/11	7	1.6	MS	
8/10/11	7	1.6	MS	
9/8/11	7	1.7	MS	
10/7/11	7	1.7	MS	
11/6/11	7	1.7	MS	
12/6/11	7	1.8	MS	

Location # 1 Rochester (aka Cafeteria)
2 Honeoye Falls (aka Compressor Room)
3 Hilton (aka Utility Room)
4 & 5 Greece / Palmyra (aka Molding / Switch Gear)
6 Spencerport (aka MicroBio Lab)
7 Brockport (aka Bevel Mill Room)

Note: # 4 & # 5 are on the same system

Maintenance Form

Work Order Number 28641
Date Enacted 11/7/2011

Due Date: 12/6/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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: 12/6/2011 45min

Parts Used:

Estimated Cost:

Remarks:

Mary Jo Fay

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
12/5/11	MJB	3.9						OK	
			3.7					OK	
				1.7				OK	
					2.4			OK	
						3.6		OK	
							1.8	OK	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Number 28483
Date Enacted 10/10/2011

Due Date: 11/6/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

11/6/11 Rene Schewing

MS

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
11/6/11	MS	3.9	3.8	1.7	2.4	3.7	1.7	MS	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Number 28333
Date Enacted 9/12/2011

Due Date: 10/8/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

10/7/11 Rene Scheuing

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
10/7/11	MS	3.8	3.7	1.7	2.4	3.6	1.7	MS	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Number 28175
Date Enacted 8/15/2011

Due Date: 9/9/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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 1/2 hr

Estimated Cost:

Parts Used:

Remarks: 9/8/11 Mary Jo Fay

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
9/8/11	mgf	3.7						OK	
			3.6					OK	
						3.5		OK	
							1.7	OK	
					2.4			OK	
				1.6				OK	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Number 27983
Date Enacted 7/18/2011

Due Date: 8/10/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

Mary J Fay 8/10/11

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
8/10/11	mg	3.6						OK	
8/10/11	mg		3.5					OK	
8/10/11	mg			1.6	2.2 8/10/11 mg			OK	
8/10/11	mg					3.5		OK	
8/10/11	mg						1.6	OK	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

Maintenance Form

Work Order Number 27833
Date Enacted 6/21/2011

Due Date: 7/11/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

7/11/11 Rene Scheuing

MS

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
7/11/11	MS	3.6	3.6	1.4	2.4	3.5	1.6	MS	all visual ok

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

Maintenance Form

Work Order Number 27711
Date Enacted 5/31/2011

Due Date: 6/12/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

6/11/11 Rene Schening

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
6/11/11	MS	3.6	3.4	1.6	2.4	3.5	1.4	MS	All visual OK

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Numbe 27508
Date Enacted 4/18/2011

Due Date: 5/13/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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: 5/13/11 Rene Schenning

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
5/13/11	MS	3.6	3.6	1.624 MS	2.4	3.4	1.6	MS	all visually ok

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Numbe 27332
Date Enacted 3/21/2011

Due Date: 4/15/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

Mary Jo Clay 4/13/11

MS

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
4/13/11	JayJay	3.8	3.7	1.7	2.6	3.6	1.8	✓ JayJ	all visually OK

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Numbe 27142
Date Enacted 2/14/2011

Due Date: 3/16/2011

System ID:	PM	Scheduled Person:	
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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: 55 min

Estimated Cost:

Parts Used:

Remarks:

3/16/11 Angie Fay

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
3/16/11	mg	3.8						✓	
	mg		3.8					✓	
	mg							✓	OK
	mg				2.4			✓	mg
	mg					3.7		✓	
	mg						1.8	✓	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Numbe 26937
Date Enacted 1/17/2011

Due Date: 2/12/2011

System ID: PM
Component ID: SUB-SLAB
Equipment Type: Sub-Slab Depressurization System
Description: Sub-Slab Depressurization System
Serial Number:

Scheduled Person: Duane Pierson
Event Name: Monthly
Department: Plant
Location All Locations
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:

Procedure completed per S.O.P 142-X-30
2-11-11

SOP - Sub-Slab re-checked on 2/14/11
during training by Jay 2/14/11

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE IN INCHES OF WATER LOCATION NUMBERS

Date	Location by #	Manometer readings	Preformed By	
2-11-11	# 1	4	[illegible]	Cafeteria is # 1
2-11-11	# 2	4	[illegible]	Compressor room is # 2
2-11-11	# 3	1.7	[illegible]	Utility Room is # 3
2-11-11	# 4+5	2.2	[illegible]	Back room in Molding is # 4
2-11-11	# 4+5	2.2	[illegible]	Main switch gear room is # 5
2-11-11	#6	3.8	[illegible]	Micro Bio. Lab. # 6
2-11-11	#7	1.7	[illegible]	Bevel Mill room # 7

Note: # 4 & # 5 are on the same system

Monthly SSD System Monitoring

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

		Vacuum Reading ("wc)							
		S-1	S-2	S-3	S-4/5	S-6	S-7		
Date	Initials	Caferteria	Compressor Room	Ulitity Room	Molding / Switchgear	MicrBio lab	Bevel Mill Room	Visual Inspection	Comments / Remarks
2/14/11	MRJ	3.8						OK	
2/14/11	MRJ		3.7					OK	
2/14/11	MRJ			1.7				OK	
2/14/11	MRJ				2.2			OK	
2/14/11	MRJ					3.6		OK	
2/14/11	MRJ						1.7	OK	

Notes:
*Document Monthly Readings
*Email results Yearly to Contacts
*Readings are in inches of Water Column (in.w.c.)
*See figure for suction points and fan locations

Contacts:
1 - Mark Ramsdell - Haley & Aldrich -321-4262 - Mramsdell@HaleyAldrich.com

FM00916

Maintenance Form

Work Order Numbe 26768
Date Enacted 12/20/2010

Due Date: 1/13/2011

System ID:	PM	Scheduled Person:	Duane Pierson
Component ID:	SUB-SLAB	Event Name:	Monthly
Equipment Type:	Sub-Slab Depressurization System	Department:	Plant
Description:	Sub-Slab Depressurization System	Location	All Locations
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:

Procedure completed per S.O.P 142-X-30
1-13-11

SUB - SLAB DEPRESSURIZATION SYSTEM READING ARE IN INCHES OF WATER LOCATION NUMBERS

Date	Location by #	Manometer readings	Preformed By	
1-13-11	#1	3.9	[illegible]	Cafeteria is # 1
1-13-11	#2	4	[illegible]	Compressor room is # 2
1-13-11	#3	1.7	[illegible]	Utility Room is # 3
1-13-11	#4+5	2.2	[illegible]	Back room in Molding is # 4
1-13-11	#4+5	2.3	[illegible]	Main switch gear room is # 5
1-13-11	#6	3.7	[illegible]	Micro Bio. Lab. # 6
1-13-11	#7	1.7	[illegible]	Bevel Mill room # 7

Note: # 4 & # 5 are on the same system

Show All History Records - Page 2

History Date	Due Date	Event Name	Event Type	Future Date	Component ID	Department
07/13/2009	07/13/2009	Weekly	Maintenance	07/20/2009	SUB-SLAB	Plant
07/20/2009	07/20/2009	Weekly	Maintenance	07/27/2009	SUB-SLAB	Plant
07/27/2009	07/27/2009	Weekly	Maintenance	08/03/2009	SUB-SLAB	Plant
08/03/2009	08/03/2009	Weekly	Maintenance	08/10/2009	SUB-SLAB	Plant
08/10/2009	08/10/2009	Weekly	Maintenance	08/17/2009	SUB-SLAB	Plant
08/17/2009	08/17/2009	Weekly	Maintenance	08/24/2009	SUB-SLAB	Plant
08/24/2009	08/31/2009	Weekly	Maintenance	09/07/2009	SUB-SLAB	Plant
08/24/2009	08/24/2009	Weekly	Maintenance	08/31/2009	SUB-SLAB	Plant
08/31/2009	08/31/2009	Weekly	Maintenance	09/07/2009	SUB-SLAB	Plant
09/07/2009	09/07/2009	Weekly	Maintenance	09/14/2009	SUB-SLAB	Plant
09/14/2009	09/14/2009	Weekly	Maintenance	09/21/2009	SUB-SLAB	Plant
09/21/2009	09/21/2009	Weekly	Maintenance	09/28/2009	SUB-SLAB	Plant
09/28/2009	09/28/2009	Weekly	Maintenance	10/05/2009	SUB-SLAB	Plant
10/05/2009	10/05/2009	Weekly	Maintenance	10/12/2009	SUB-SLAB	Plant
10/12/2009	10/12/2009	Weekly	Maintenance	10/19/2009	SUB-SLAB	Plant
10/19/2009	10/19/2009	Weekly	Maintenance	10/26/2009	SUB-SLAB	Plant
10/26/2009	10/26/2009	Weekly	Maintenance	11/02/2009	SUB-SLAB	Plant
11/02/2009	11/02/2009	Weekly	Maintenance	11/09/2009	SUB-SLAB	Plant
11/09/2009	11/09/2009	Weekly	Maintenance	11/16/2009	SUB-SLAB	Plant
11/16/2009	11/16/2009	Weekly	Maintenance	11/23/2009	SUB-SLAB	Plant
11/23/2009	11/23/2009	Weekly	Maintenance	11/30/2009	SUB-SLAB	Plant
11/30/2009	11/30/2009	Weekly	Maintenance	12/07/2009	SUB-SLAB	Plant
12/07/2009	12/07/2009	Weekly	Maintenance	12/14/2009	SUB-SLAB	Plant
12/14/2009	12/14/2009	Weekly	Maintenance	12/21/2009	SUB-SLAB	Plant
12/21/2009	12/21/2009	Weekly	Maintenance	12/28/2009	SUB-SLAB	Plant
12/28/2009	12/28/2009	Weekly	Maintenance	01/04/2010	SUB-SLAB	Plant
01/04/2010	01/04/2010	Weekly	Maintenance	01/11/2010	SUB-SLAB	Plant
01/11/2010	01/11/2010	Weekly	Maintenance	01/18/2010	SUB-SLAB	Plant
01/18/2010	01/18/2010	Weekly	Maintenance	01/25/2010	SUB-SLAB	Plant
01/25/2010	01/25/2010	Weekly	Maintenance	02/01/2010	SUB-SLAB	Plant
02/01/2010	02/01/2010	Weekly	Maintenance	02/08/2010	SUB-SLAB	Plant
02/08/2010	02/08/2010	Weekly	Maintenance	02/15/2010	SUB-SLAB	Plant
02/15/2010	02/15/2010	Weekly	Maintenance	02/22/2010	SUB-SLAB	Plant
02/22/2010	02/22/2010	Weekly	Maintenance	03/01/2010	SUB-SLAB	Plant
03/01/2010	03/01/2010	Weekly	Maintenance	03/08/2010	SUB-SLAB	Plant
03/08/2010	03/08/2010	Weekly	Maintenance	03/15/2010	SUB-SLAB	Plant
03/15/2010	03/15/2010	Weekly	Maintenance	03/22/2010	SUB-SLAB	Plant
03/22/2010	03/22/2010	Weekly	Maintenance	03/29/2010	SUB-SLAB	Plant
03/29/2010	03/29/2010	Weekly	Maintenance	04/05/2010	SUB-SLAB	Plant
04/05/2010	04/05/2010	Weekly	Maintenance	04/12/2010	SUB-SLAB	Plant

Show All History Records - Page 2

	04/12/2010	04/12/2010	Weekly	Maintenance	04/19/2010	SUB-SLAB	Plant
	04/19/2010	04/19/2010	Weekly	Maintenance	04/26/2010	SUB-SLAB	Plant
	04/26/2010	04/26/2010	Weekly	Maintenance	05/03/2010	SUB-SLAB	Plant
	05/03/2010	05/03/2010	Weekly	Maintenance	05/10/2010	SUB-SLAB	Plant
	05/10/2010	05/10/2010	Weekly	Maintenance	05/17/2010	SUB-SLAB	Plant
	05/17/2010	05/17/2010	Weekly	Maintenance	05/24/2010	SUB-SLAB	Plant
	05/24/2010	05/24/2010	Weekly	Maintenance	05/31/2010	SUB-SLAB	Plant
	05/31/2010	05/31/2010	Weekly	Maintenance	06/07/2010	SUB-SLAB	Plant
	06/07/2010	06/07/2010	Weekly	Maintenance	06/14/2010	SUB-SLAB	Plant
	06/14/2010	06/14/2010	Weekly	Maintenance	06/21/2010	SUB-SLAB	Plant
	06/21/2010	06/21/2010	Weekly	Maintenance	06/28/2010	SUB-SLAB	Plant
	06/28/2010	06/28/2010	Weekly	Maintenance	07/05/2010	SUB-SLAB	Plant
	07/07/2010	07/05/2010	Weekly	Maintenance	07/12/2010	SUB-SLAB	Plant
	07/14/2010	07/14/2010	Weekly	Maintenance	07/21/2010	SUB-SLAB	Plant
	07/21/2010	07/21/2010	Weekly	Maintenance	07/28/2010	SUB-SLAB	Plant
	07/28/2010	07/28/2010	Weekly	Maintenance	08/04/2010	SUB-SLAB	Plant
	08/04/2010	08/04/2010	Weekly	Maintenance	08/11/2010	SUB-SLAB	Plant
	08/11/2010	08/11/2010	Weekly	Maintenance	08/18/2010	SUB-SLAB	Plant
	08/18/2010	08/18/2010	Weekly	Maintenance	08/25/2010	SUB-SLAB	Plant
	08/25/2010	08/25/2010	Weekly	Maintenance	09/01/2010	SUB-SLAB	Plant
	09/01/2010	09/01/2010	Weekly	Maintenance	09/08/2010	SUB-SLAB	Plant
	09/08/2010	09/08/2010	Weekly	Maintenance	09/15/2010	SUB-SLAB	Plant
	09/15/2010	09/15/2010	Weekly	Maintenance	09/22/2010	SUB-SLAB	Plant
	09/22/2010	09/22/2010	Monthly	Maintenance	10/22/2010	SUB-SLAB	Plant
	10/21/2010	10/22/2010	Monthly	Maintenance	11/21/2010	SUB-SLAB	Plant
	11/19/2010	11/20/2010	Monthly	Maintenance	12/20/2010	SUB-SLAB	Plant
	12/14/2010	12/19/2010	Monthly	Maintenance	01/18/2011	SUB-SLAB	Plant
	01/13/2011	01/13/2011	Monthly	Maintenance	02/12/2011	SUB-SLAB	Plant
	02/11/2011	02/12/2011	Monthly	Maintenance	03/14/2011	SUB-SLAB	Plant
	02/14/2011	03/13/2011	Monthly	Maintenance	04/12/2011	SUB-SLAB	Plant
	03/16/2011	03/16/2011	Monthly	Maintenance	04/15/2011	SUB-SLAB	Plant
	04/13/2011	04/15/2011	Monthly	Maintenance	05/15/2011	SUB-SLAB	Plant
	05/13/2011	05/13/2011	Monthly	Maintenance	06/12/2011	SUB-SLAB	Plant
	06/11/2011	06/12/2011	Monthly	Maintenance	07/12/2011	SUB-SLAB	Plant
	07/11/2011	07/11/2011	Monthly	Maintenance	08/10/2011	SUB-SLAB	Plant
	08/10/2011	08/10/2011	Monthly	Maintenance	09/09/2011	SUB-SLAB	Plant
	09/08/2011	09/09/2011	Monthly	Maintenance	10/09/2011	SUB-SLAB	Plant
	10/07/2011	10/08/2011	Monthly	Maintenance	11/07/2011	SUB-SLAB	Plant
	11/06/2011	11/06/2011	Monthly	Maintenance	12/06/2011	SUB-SLAB	Plant
	12/06/2011	12/06/2011	Monthly	Maintenance	01/05/2012	SUB-SLAB	Plant

Columbia Analytical Services™ 1 Mustard Street, Suite 250 | Rochester, NY 14609 | 585-288-5380 | 585-288-8475 fax | www.caslab.com

May 02, 2011

Service Request No: R1102043

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 14, 2011. For your reference, these analyses have been assigned our service request number **R1102043**.

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 Columbia Analytical Services, Inc. (CAS) 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 134. You may also contact me via email at KBunker@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Bunker
Project Manager

CC: Claire DeBergalis

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Haley & Aldrich of New York	**Service Request No.:**	R1102043
Project:	Coopervision #70665-001 4/11	**Date Received:**	4/14/11
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). 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 were collected on 4/11-13/11 by H&A and received for analysis at Columbia Analytical Services on 4/14/11. The samples were received in good condition and consistent with the accompanying chain of custody form. The cooler temperature upon receipt at the laboratory was 5°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, Sulfide, Ferrous Iron, and Total Iron

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

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

Metals analyses are reported in ug/L in this report.

All holding times were met for these analyses except for the following samples: all Ferrous Iron samples were received outside the 24 hour holding time, NO3 and NO2 aliquots were received outside of the 48 hr hold time for locations MW-3 (CAS Submission # R1102043-006) and MW-502 (-007) and were run as soon as possible upon receipt in the lab, Nitrate and Nitrite aliquots were run outside the 48 hour holding time for locations MW-501 (--08), MW-205 (-009), and OW-302S (-010). All samples were run the same day as received. Exceedences are flagged as "*" on the data forms.

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.

Approved by Karen Burke **Date** 5/3/11

Organic Compounds

Ten (10) water samples 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. One (1) water was analyzed for Metabolic Acids by HPLC methodology.

All Initial and Continuing Calibration Criteria was met for these samples.

Batch QC is included in the report. All Laboratory Control Samples (LCS), Laboratory Control Sample Duplicate (LCSD) recoveries, and 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. All samples were found to be preserved to a pH of <2 or the samples were analyzed within 7 days from collection for unpreserved aliquots except for the RSK-175 for locations MW-205 (R1102043-009). This aliquot was found to be unpreserved and was run on the 9th day from sample collection. All CAS vials are certified as preserved therefore matrix interference is suspected.

The Trip Blank and Laboratory Method Blanks were free from contamination.

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

Approved by Karen N Benker Date 5/13/11

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1102043

Lab ID	Client ID
R1102043-001	TB-1
R1102043-002	OW-306
R1102043-003	MW-203
R1102043-004	MW-202
R1102043-005	MW-204
R1102043-006	MW-3
R1102043-007	MW-502
R1102043-008	MW-501
R1102043-009	MW-205
R1102043-010	OW-302S

Columbia Analytical Services, Inc.

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/Arclors).
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.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

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

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/11/11
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 01:52
Sample Name:	TB-1	**Units:**	µg/L
Lab Code:	R1102043-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/11/11
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 01:52
Sample Name:	TB-1	**Units:**	µg/L
Lab Code:	R1102043-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/19/11 01:52	
Toluene-d8	108	87-121	4/19/11 01:52	
Dibromofluoromethane	103	89-119	4/19/11 01:52	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/11/11 1442
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 02:21
Sample Name:	OW-306	**Units:**	µg/L
Lab Code:	R1102043-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/11/11 1442
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 02:21
Sample Name:	OW-306	**Units:**	µg/L
Lab Code:	R1102043-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	4/19/11 02:21	
Toluene-d8	106	87-121	4/19/11 02:21	
Dibromofluoromethane	103	89-119	4/19/11 02:21	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/11/11 1540
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 02:51
Sample Name:	MW-203	**Units:**	µg/L
Lab Code:	R1102043-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/11/11 1540
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 02:51
Sample Name:	MW-203	**Units:**	µg/L
Lab Code:	R1102043-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/19/11 02:51	
Toluene-d8	105	87-121	4/19/11 02:51	
Dibromofluoromethane	100	89-119	4/19/11 02:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1130
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 09:41
Sample Name:	MW-202	**Units:**	µg/L
Lab Code:	R1102043-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1991.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	**16**		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	**10**		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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1130
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 09:41
Sample Name:	MW-202	**Units:**	µg/L
Lab Code:	R1102043-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1991.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	4/19/11 09:41	
Toluene-d8	110	87-121	4/19/11 09:41	
Dibromofluoromethane	105	89-119	4/19/11 09:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1230
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 03:51
Sample Name:	MW-204	**Units:**	µg/L
Lab Code:	R1102043-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	**5.9**		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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1230
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 03:51
Sample Name:	MW-204	**Units:**	µg/L
Lab Code:	R1102043-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/19/11 03:51	
Toluene-d8	106	87-121	4/19/11 03:51	
Dibromofluoromethane	101	89-119	4/19/11 03:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1030
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-3		
Lab Code:	R1102043-006	**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	**188**		mg/L	2.0	1	NA	4/21/11 08:17	
Chloride	9056A	**331**		mg/L	20	100	NA	4/15/11 13:31	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/14/11 16:11	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/15/11 11:05	*
Nitrite as Nitrogen	9056A	10	U	mg/L	10	100	NA	4/15/11 13:31	*
Sulfate	9056A	**3.4**		mg/L	2.0	10	NA	4/15/11 11:05	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/15/11	4/15/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1030
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-3		
Lab Code:	R1102043-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	7790		µg/L	100	1	4/21/11	4/28/11 08:48	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1030
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 04:20
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1102043-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
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	**1500**		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	**98**		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	**320**		50	
95-47-6	o-Xylene	50	U	50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1030
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 04:20
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1102043-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	50	U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/19/11 04:20	
Toluene-d8	108	87-121	4/19/11 04:20	
Dibromofluoromethane	101	89-119	4/19/11 04:20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1030
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 11:02
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1102043-006	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star188.run	**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	**32**		25	
74-82-8	Methane	**1400**		50	
74-98-6	Propane	25	U	25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1310
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-502		
Lab Code:	R1102043-007	**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	**670**		mg/L	2.0	1	NA	4/21/11 08:17	
Chloride	9056A	**693**		mg/L	40	200	NA	4/15/11 13:44	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**0.32**		mg/L	0.10	1	NA	4/14/11 16:11	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/15/11 11:18	*
Nitrite as Nitrogen	9056A	20	U	mg/L	20	200	NA	4/15/11 13:44	*
Sulfate	9056A	2.0	U	mg/L	2.0	10	NA	4/15/11 11:18	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/15/11	4/15/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1310
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-502		
Lab Code:	R1102043-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**571000**		µg/L	100	1	4/21/11	4/28/11 08:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1310
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 04:50
Sample Name:	MW-502	**Units:**	µg/L
Lab Code:	R1102043-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	100

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	2000	U	2000	
71-43-2	Benzene	500	U	500	
75-27-4	Bromodichloromethane	500	U	500	
75-25-2	Bromoform	500	U	500	
74-83-9	Bromomethane	500	U	500	
78-93-3	2-Butanone (MEK)	1000	U	1000	
75-15-0	Carbon Disulfide	1000	U	1000	
56-23-5	Carbon Tetrachloride	500	U	500	
108-90-7	Chlorobenzene	500	U	500	
75-00-3	Chloroethane	**17000**		500	
67-66-3	Chloroform	500	U	500	
74-87-3	Chloromethane	500	U	500	
124-48-1	Dibromochloromethane	500	U	500	
75-34-3	1,1-Dichloroethane	500	U	500	
107-06-2	1,2-Dichloroethane	500	U	500	
75-35-4	1,1-Dichloroethene	500	U	500	
156-59-2	cis-1,2-Dichloroethene	500	U	500	
156-60-5	trans-1,2-Dichloroethene	500	U	500	
78-87-5	1,2-Dichloropropane	500	U	500	
10061-01-5	cis-1,3-Dichloropropene	500	U	500	
10061-02-6	trans-1,3-Dichloropropene	500	U	500	
100-41-4	Ethylbenzene	500	U	500	
591-78-6	2-Hexanone	1000	U	1000	
75-09-2	Methylene Chloride	500	U	500	
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U	1000	
100-42-5	Styrene	500	U	500	
79-34-5	1,1,2,2-Tetrachloroethane	500	U	500	
127-18-4	Tetrachloroethene	500	U	500	
108-88-3	Toluene	500	U	500	
71-55-6	1,1,1-Trichloroethane	500	U	500	
79-00-5	1,1,2-Trichloroethane	500	U	500	
79-01-6	Trichloroethene	500	U	500	
75-01-4	Vinyl Chloride	500	U	500	
95-47-6	o-Xylene	500	U	500	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1310
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 04:50
Sample Name:	MW-502	**Units:**	µg/L
Lab Code:	R1102043-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	100

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	500	U	500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	4/19/11 04:50	
Toluene-d8	110	87-121	4/19/11 04:50	
Dibromofluoromethane	103	89-119	4/19/11 04:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/12/11 1310
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 12:41
Sample Name:	MW-502	**Units:**	µg/L
Lab Code:	R1102043-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star194.run	**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	**18000**		500	
74-98-6	Propane	250	U	250	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-501		
Lab Code:	R1102043-008	**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	**262**		mg/L	2.0	1	NA	4/21/11 08:17	
Chloride	9056A	**7500**		mg/L	200	1000	NA	4/15/11 13:57	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**2.63**		mg/L	0.10	1	NA	4/14/11 16:11	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	4/15/11 11:31	*
Nitrite as Nitrogen	9056A	100	U	mg/L	100	1000	NA	4/15/11 13:57	*
Sulfate	9056A	**64.1**		mg/L	2.0	10	NA	4/15/11 11:31	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/15/11	4/15/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-501		
Lab Code:	R1102043-008	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**11800**		µg/L	100	1	4/21/11	4/28/11 08:59	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 05:20
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1102043-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1984.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	100	U	100	
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	**150**		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	**100**		25	
95-47-6	o-Xylene	25	U	25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 05:20
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1102043-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1984.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	25	U	25	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	4/19/11 05:20	
Toluene-d8	105	87-121	4/19/11 05:20	
Dibromofluoromethane	104	89-119	4/19/11 05:20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 10:11
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1102043-008	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1992.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
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	**160**	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	**110**	D	50	
95-47-6	o-Xylene	50	U	50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 10:11
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1102043-008	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1992.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	50	U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/19/11 10:11	
Toluene-d8	107	87-121	4/19/11 10:11	
Dibromofluoromethane	104	89-119	4/19/11 10:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 11:31
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1102043-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star190.run	**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	**18000**	E	200	
74-98-6	Propane	100	U	100	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0858
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 11:59
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1102043-008	**Basis:**	NA
Run Type:	Dilution		

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star191.run	**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	**19000**	D	500	
74-98-6	Propane	250	U	250	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-205		
Lab Code:	R1102043-009	**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	2.0	U	mg/L	2.0	1	NA	4/21/11 08:17	
Chloride	9056A	**830**		mg/L	40	200	NA	4/15/11 14:24	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**74.1**		mg/L	4.0	40	NA	4/14/11 16:11	*
Nitrate as Nitrogen	9056A	5.0	U	mg/L	5.0	50	NA	4/15/11 19:55	*
Nitrite as Nitrogen	9056A	20	U	mg/L	20	200	NA	4/15/11 14:24	*
Sulfate	9056A	**10.5**		mg/L	2.0	10	NA	4/15/11 11:44	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/15/11	4/15/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	MW-205		
Lab Code:	R1102043-009	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**103000**		µg/L	100	1	4/21/11	4/28/11 09:04	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 05:50
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1102043-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2000

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	40000	U	40000	
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	**300000**		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	**130000**		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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 05:50
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1102043-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2000

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	10000	U	10000	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	4/19/11 05:50	
Toluene-d8	108	87-121	4/19/11 05:50	
Dibromofluoromethane	104	89-119	4/19/11 05:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 12:10
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1102043-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star192.run	**Instrument Name:**	R-GC-02
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	**11**		1.0	
74-85-1	Ethylene	**7.7**		1.0	
74-82-8	Methane	**130**	E	2.0	
74-98-6	Propane	1.0	U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 12:24
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1102043-009	**Basis:**	NA
Run Type:	Dilution		

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star193.run	**Instrument Name:**	R-GC-02
		Dilution Factor:	2

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	**11**	D	2.0	
74-85-1	Ethylene	**7.9**	D	2.0	
74-82-8	Methane	**130**	D	4.0	
74-98-6	Propane	2.0	U	2.0	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 0955
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/20/11 21:09
Sample Name:	MW-205	**Units:**	mg/L
Lab Code:	R1102043-009	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method:	Organic Acids	**Analysis Lot:**	243131
Data File Name:	J:\ACQUDATA\HPLC05\DATA\042011\X0005740.D\	**Instrument Name:**	R-HPLC-05
		Dilution Factor:	20

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	10	U	10	
64-19-7	Acetic Acid	**400**		20	
107-92-6	Butanoic Acid (Butyric Acid)	**2400**		40	
50-21-5	Lactic Acid	20	U	20	
79-09-4	Propionic Acid	**700**		20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	OW-302S		
Lab Code:	R1102043-010	**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	**622**		mg/L	2.0	1	NA	4/21/11 08:17	
Chloride	9056A	**3670**		mg/L	200	1000	NA	4/15/11 14:50	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/14/11 16:11	*
Nitrate as Nitrogen	9056A	2.0	U	mg/L	2.0	20	NA	4/15/11 14:37	*
Nitrite as Nitrogen	9056A	100	U	mg/L	100	1000	NA	4/15/11 14:50	*
Sulfate	9056A	**8.7**		mg/L	2.0	10	NA	4/15/11 11:58	
Sulfide, Acid-Soluble	9034	**4.2**		mg/L	1.0	1	4/15/11	4/15/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
Sample Name:	OW-302S		
Lab Code:	R1102043-010	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**52500**		µg/L	100	1	4/21/11	4/28/11 09:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 06:19
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1102043-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	500

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10000	U	10000	
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	**7500**		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	**220000**	E	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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 06:19
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1102043-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	500

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	2500	U	2500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	4/19/11 06:19	
Toluene-d8	110	87-121	4/19/11 06:19	
Dibromofluoromethane	105	89-119	4/19/11 06:19	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 10:41
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1102043-010	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1993.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2500

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50000	U	50000	
71-43-2	Benzene	13000	U	13000	
75-27-4	Bromodichloromethane	13000	U	13000	
75-25-2	Bromoform	13000	U	13000	
74-83-9	Bromomethane	13000	U	13000	
78-93-3	2-Butanone (MEK)	25000	U	25000	
75-15-0	Carbon Disulfide	25000	U	25000	
56-23-5	Carbon Tetrachloride	13000	U	13000	
108-90-7	Chlorobenzene	13000	U	13000	
75-00-3	Chloroethane	13000	U	13000	
67-66-3	Chloroform	13000	U	13000	
74-87-3	Chloromethane	13000	U	13000	
124-48-1	Dibromochloromethane	13000	U	13000	
75-34-3	1,1-Dichloroethane	**220000**	D	13000	
107-06-2	1,2-Dichloroethane	13000	U	13000	
75-35-4	1,1-Dichloroethene	13000	U	13000	
156-59-2	cis-1,2-Dichloroethene	13000	U	13000	
156-60-5	trans-1,2-Dichloroethene	13000	U	13000	
78-87-5	1,2-Dichloropropane	13000	U	13000	
10061-01-5	cis-1,3-Dichloropropene	13000	U	13000	
10061-02-6	trans-1,3-Dichloropropene	13000	U	13000	
100-41-4	Ethylbenzene	13000	U	13000	
591-78-6	2-Hexanone	25000	U	25000	
75-09-2	Methylene Chloride	13000	U	13000	
108-10-1	4-Methyl-2-pentanone (MIBK)	25000	U	25000	
100-42-5	Styrene	13000	U	13000	
79-34-5	1,1,2,2-Tetrachloroethane	13000	U	13000	
127-18-4	Tetrachloroethene	13000	U	13000	
108-88-3	Toluene	13000	U	13000	
71-55-6	1,1,1-Trichloroethane	13000	U	13000	
79-00-5	1,1,2-Trichloroethane	13000	U	13000	
79-01-6	Trichloroethene	13000	U	13000	
75-01-4	Vinyl Chloride	13000	U	13000	
95-47-6	o-Xylene	13000	U	13000	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/19/11 10:41
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1102043-010	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1993.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2500

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	13000	U	13000	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	4/19/11 10:41	
Toluene-d8	109	87-121	4/19/11 10:41	
Dibromofluoromethane	103	89-119	4/19/11 10:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	4/13/11 1330
Sample Matrix:	Water	**Date Received:**	4/14/11
		Date Analyzed:	4/22/11 14:46
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1102043-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star201.run	**Instrument Name:**	R-GC-02
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	**18**		1.0	
74-85-1	Ethylene	**26**		1.0	
74-82-8	Methane	**54**		2.0	
74-98-6	Propane	1.0	U	1.0	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1102043-MB1	**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	2.0	U	mg/L	2.0	1	NA	4/21/11 08:17	
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	4/15/11 10:08	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/14/11 16:11	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/15/11 10:08	
Nitrite as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/15/11 10:08	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	4/15/11 10:08	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/15/11	4/15/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1102043-MB2	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	4/15/11 15:56	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1102043-MB	**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	4/21/11	4/28/11 08:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/19/11 01:22
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1103563-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/19/11 01:22
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1103563-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	242791
Data File Name:	J:\ACQUDATA\msvoa10\data\041811\D1976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	4/19/11 01:22	
Toluene-d8	108	87-121	4/19/11 01:22	
Dibromofluoromethane	100	89-119	4/19/11 01:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/22/11 10:14
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1103472-01	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	243146
Data File Name:	star186.run	**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	2.0	U	2.0	
74-98-6	Propane	1.0	U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1102043
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/20/11 18:04
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ1103450-01	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method:	Organic Acids	**Analysis Lot:**	243131
Data File Name:	J:\ACQUDATA\HPLC05\DATA\042011\X0005737.D\	**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	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/14/11 - 4/21/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1102043-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	2.07	2.00	103	80 - 120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.416	0.40	104	77 - 129
Sulfate	9056A	2.04	2.00	102	80 - 120
Alkalinity as CaCO3, Total	SM 2320 B	19.2	20.0	96	72 - 115
Nitrate as Nitrogen	9056A	1.04	1.00	104	80 - 120
Nitrite as Nitrogen	9056A	1.03	1.00	103	80 - 120
Sulfide, Acid-Soluble	9034	9.86	14.1	70	51 - 105

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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/15/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1102043-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	9056A	1.01	1.00	101	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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/28/11

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1102043-LCS Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010C	975	1000	98	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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/19/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 242791

Analyte Name	Lab Control Sample RQ1103563-02 Result	Spike Amount	% Rec	% Rec Limits
Acetone	22.5	20.0	112	59 - 140
Benzene	19.6	20.0	98	78 - 121
Bromodichloromethane	19.6	20.0	98	80 - 125
Bromoform	19.3	20.0	96	73 - 132
Bromomethane	20.8	20.0	104	57 - 144
2-Butanone (MEK)	20.3	20.0	101	60 - 133
Carbon Disulfide	21.8	20.0	109	59 - 138
Carbon Tetrachloride	18.2	20.0	91	69 - 135
Chlorobenzene	19.0	20.0	95	80 - 121
Chloroethane	22.2	20.0	111	71 - 130
Chloroform	19.2	20.0	96	78 - 125
Chloromethane	22.4	20.0	112	62 - 133
Dibromochloromethane	19.5	20.0	98	78 - 133
1,1-Dichloroethane	20.0	20.0	100	76 - 122
1,2-Dichloroethane	20.7	20.0	103	78 - 126
1,1-Dichloroethene	18.1	20.0	90	72 - 129
cis-1,2-Dichloroethene	18.5	20.0	92	78 - 122
trans-1,2-Dichloroethene	18.6	20.0	93	75 - 121
1,2-Dichloropropane	21.3	20.0	107	80 - 123
cis-1,3-Dichloropropene	18.8	20.0	94	77 - 125
trans-1,3-Dichloropropene	18.5	20.0	93	69 - 127
Ethylbenzene	20.0	20.0	100	78 - 123
2-Hexanone	21.1	20.0	105	61 - 131
Methylene Chloride	18.9	20.0	94	75 - 125
4-Methyl-2-pentanone (MIBK)	22.3	20.0	111	61 - 132
Styrene	19.7	20.0	99	80 - 132
1,1,2,2-Tetrachloroethane	20.2	20.0	101	72 - 131
Tetrachloroethene	19.2	20.0	96	72 - 131
Toluene	19.6	20.0	98	78 - 122
1,1,1-Trichloroethane	17.7	20.0	88	72 - 128
1,1,2-Trichloroethane	19.5	20.0	98	80 - 122
Trichloroethene	19.8	20.0	99	74 - 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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/19/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 242791

Analyte Name	Lab Control Sample RQ1103563-02 Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	25.2	20.0	126	71 - 136
o-Xylene	19.3	20.0	96	79 - 126
m,p-Xylenes	40.3	40.0	101	79 - 126

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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/22/11

Lab Control Sample Summary
Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L
Basis: NA

Analysis Lot: 243146

Analyte Name	Lab Control Sample RQ1103472-02 Result	Spike Amount	% Rec	% Rec Limits
Ethane	26.3	26.1	101	55 - 165
Ethylene	23.7	24.3	97	48 - 163
Methane	25.8	26.2	98	61 - 154
Propane	25.5	25.4	100	26 - 186

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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1102043
Date Analyzed: 4/20/11

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: 243131

	Lab Control Sample RQ1103450-02			Duplicate Lab Control Sample RQ1103450-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Pyruvic Acid	1.08	0.998	108	1.10	0.998	110	70 - 130	2	30
Acetic Acid	9.59	9.97	96	9.66	9.97	97	70 - 135	<1	30
Butanoic Acid (Butyric Acid)	9.32	9.98	93	9.99	9.98	100	82 - 118	7	30
Lactic Acid	9.52	10.0	95	9.57	10.0	95	70 - 117	<1	30
Propionic Acid	10.2	9.97	102	9.74	9.97	98	80 - 125	5	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.

Columbia Analytical Services℠ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: Coopervision	Project Number: 70665-3018
Project Manager: M. Ramsdell / Mondello	Report CC:
Company/Address: Haley + Aldrich, 200 Town Centre Dr., Rochester NY 14623	
Phone #: 585.321.4219	E-mail: cmondell[illegible]aldrich.com
Sampler's Signature: Thomas G. Robitaille	Sampler's Printed Name: Thom[illegible]ille

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608	PCB's ☐8082 ☐608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	RSK-175	Alkalinity	sulfide	Fe	Wet Chem	Metabolic acids	REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE						1							1	0	4 5[illegible]	2	0	8	
TB-1	-001		[illegible]05	GW	3	3													trip blank
OW-306	-002	4/11/11	14:42	"	3	3													
MW-203	-003	4/11/11	15:40	"	3	3													
MW-202	-004	4/12/11	11:30	"	3	3													
MW-204	-005	4/12/11	12:30	"	3	3													
MW-3	-006	4/12/11	10:30	"	10	3							3	1	1	1	1		
MW-502	-007	4/12/11	13:10	"	10	3							3	1	1	1	1		
MW-501	-008	4/13/11	8:58	[illegible]	10	3							3	1	1	1	1		
MW-205	-009	4/13/11	9:55	"	10	3							3	1	1	1	1	2	
OW-302S	-010	4/13/11	13:30	"	10	3							3	1	1	1	1		

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other H_3PO_4

SPECIAL INSTRUCTIONS/COMMENTS

Metals

Wet Chem: Fe^{2+}; NO_2; NO_3; Cl; SO_4

Please report EDDs to EQUISS standard.

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: NY

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
__ 1 day __ 2 day __ 3 day
__ 4 day __ 5 day
✓ Standard

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 #: 70665-018
BILL TO: AP at Haley & Aldrich

R1102043
Haley & Aldrich, Inc.
Coopervision

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature: Thomas G. Robitaille	Signature: Gregory Anton	Signature	Signature	Signature	Signature
Printed Name: Thomas G Robitaille	Printed Name: Gregory Anton	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Haley + Aldrich	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 4/14/11 1520	Date/Time: 4/14/11 1518	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

SCOC Rev. 10/2010

Cooler Receipt And Preservation Check Form

Project/Client Cooper Vision Folder Number R1102043.

Cooler received on 4/14/11 by: KB **COURIER:** CAS 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?	(CAS/ROC),	CLIENT			
7.	Temperature of cooler(s) upon receipt:	5°				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 4/14/11 1530

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: _____

PC Secondary Review: KB 4/15/11

Cooler Breakdown: Date: 4/15/11 Time: 0913 by: AWH

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			WC10305LF	2/16				
≤2	HNO_3		X	BDB26108F	2/12	MW-502 MW-205	1mL	BDB26109H	>2
≤2	H_2SO_4								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-	BDB26109E	3/12				
	HCl	*	*	411 0020	3/12				

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

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: OK

H_3PO_4 - WC92115F exp 11/14

Bottle lot numbers: 0-235-003, 0-319-004, 031411-2K, 122710-222

Other Comments:

PC Secondary Review: KB 5/3/11

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

Columbia Analytical Services™ 1565 Jefferson Rd, Building 300, Suite 360 | Rochester, NY 14623 | 585-288-5380 | 585-288-8475 fax |

November 02, 2011 Service Request No: R1105754

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 October 15, 2011. For your reference, these analyses have been assigned our service request number **R1105754**.

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 Columbia Analytical Services, Inc. (CAS) 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 KBunker@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Karen Bunker
Project Manager

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Haley & Aldrich of New York	**Service Request No.:**	R1105754
Project:	Coopervision #70665-001 10/11	**Date Received:**	10/15/11
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). 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 were collected on 10/13-14/11 by H&A and received for analysis at Columbia Analytical Services on 10/15/11. The samples were received in good condition and consistent with the accompanying chain of custody form. The cooler temperatures upon receipt at the laboratory were 9.3 & 8.8°C outside the guidelines of 0-6°C. The client was notified via the sample acknowledgement on 10/17/11.

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, Sulfide, Ferrous Iron, and Total Iron

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

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

Metals analyses are reported in ug/L in this report.

All holding times were met for these analyses except for the following samples: 3 Ferrous Iron samples were received outside the 24 hour holding time. MW-501 (CAS Submission # R1105757-007), MW-502 (-008) and MW-3 (-009) were run as soon as possible upon receipt in the lab. All samples were run the same day as received. Exceedences are flagged as "H" on the data forms.

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.

Approved by Karen Burnham Date 11/2/11

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.

All Initial and Continuing Calibration Criteria was met for these samples except for %D for Bromomethane which was outside the ±20% at -27.1% on the 10/19/11 analytical run. Hits for this compound on associated samples should be considered as estimated.

Batch QC is included in the report. All Laboratory Control Samples (LCS), Laboratory Control Sample Duplicate (LCSD) recoveries, and 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. All samples were found to be preserved to a pH of <2 or the samples were analyzed within 7 days from collection for unpreserved aliquots except for the RSK-175 for locations MW-205 and MW-502 (R1105754-005 and -008 respectively). These aliquots were found to be unpreserved and were run within holding time. All CAS vials are certified as preserved therefore 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 Burke Date 11/2/11

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1105754

Lab ID	Client ID
R1105754-001	OW-306
R1105754-002	MW-203
R1105754-003	MW-202
R1105754-004	MW-204
R1105754-005	MW-205
R1105754-006	OW-302S
R1105754-007	MW-501
R1105754-008	MW-502
R1105754-009	MW-3

Columbia Analytical Services™

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/Arclors).
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.

CAS/Rochester Lab ID # for State Certifications[1]

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

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/13/11 1305
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 15:12
Sample Name:	OW-306	**Units:**	µg/L
Lab Code:	R1105754-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5339.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/13/11 1305
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 15:12
Sample Name:	OW-306	**Units:**	µg/L
Lab Code:	R1105754-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5339.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	10/19/11 15:12	
Toluene-d8	103	87-121	10/19/11 15:12	
Dibromofluoromethane	102	89-119	10/19/11 15:12	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/13/11 1435
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 15:42
Sample Name:	MW-203	**Units:**	µg/L
Lab Code:	R1105754-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5340.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/13/11 1435
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 15:42
Sample Name:	MW-203	**Units:**	µg/L
Lab Code:	R1105754-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5340.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	10/19/11 15:42	
Toluene-d8	103	87-121	10/19/11 15:42	
Dibromofluoromethane	102	89-119	10/19/11 15:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/13/11 1600
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/20/11 15:44
Sample Name:	MW-202	**Units:**	µg/L
Lab Code:	R1105754-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5366.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	**20**		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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/13/11 1600
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/20/11 15:44
Sample Name:	MW-202	**Units:**	µg/L
Lab Code:	R1105754-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5366.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	10/20/11 15:44	
Toluene-d8	103	87-121	10/20/11 15:44	
Dibromofluoromethane	102	89-119	10/20/11 15:44	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1705
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 16:42
Sample Name:	MW-204	**Units:**	µg/L
Lab Code:	R1105754-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5342.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	7.7		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	8.7		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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1705
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 16:42
Sample Name:	MW-204	**Units:**	µg/L
Lab Code:	R1105754-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5342.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/19/11 16:42	
Toluene-d8	103	87-121	10/19/11 16:42	
Dibromofluoromethane	102	89-119	10/19/11 16:42	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1545
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-205		
Lab Code:	R1105754-005	**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	10/21/11 09:00	
Chloride	9056A	**821**		mg/L	40	200	NA	10/17/11 23:32	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**119**		mg/L	10	100	NA	10/15/11 13:58	
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	10/28/11 12:01	
Nitrite as Nitrogen	353.2	**0.058**		mg/L	0.010	1	NA	10/15/11 13:43	
Sulfate	9056A	**10.0**		mg/L	2.0	10	NA	10/18/11 01:36	
Sulfide, Acid-Soluble	9034	**2.6**		mg/L	1.0	1	10/18/11	10/18/11 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1545
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-205		
Lab Code:	R1105754-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**106000**		µg/L	1000	10	10/19/11	10/28/11 22:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1545
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 17:11
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1105754-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5343.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2500

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50000	U	50000	
71-43-2	Benzene	13000	U	13000	
75-27-4	Bromodichloromethane	13000	U	13000	
75-25-2	Bromoform	13000	U	13000	
74-83-9	Bromomethane	13000	U	13000	
78-93-3	2-Butanone (MEK)	25000	U	25000	
75-15-0	Carbon Disulfide	25000	U	25000	
56-23-5	Carbon Tetrachloride	13000	U	13000	
108-90-7	Chlorobenzene	13000	U	13000	
75-00-3	Chloroethane	13000	U	13000	
67-66-3	Chloroform	13000	U	13000	
74-87-3	Chloromethane	13000	U	13000	
124-48-1	Dibromochloromethane	13000	U	13000	
75-34-3	1,1-Dichloroethane	**230000**		13000	
107-06-2	1,2-Dichloroethane	13000	U	13000	
75-35-4	1,1-Dichloroethene	13000	U	13000	
156-59-2	cis-1,2-Dichloroethene	13000	U	13000	
156-60-5	trans-1,2-Dichloroethene	13000	U	13000	
78-87-5	1,2-Dichloropropane	13000	U	13000	
10061-01-5	cis-1,3-Dichloropropene	13000	U	13000	
10061-02-6	trans-1,3-Dichloropropene	13000	U	13000	
100-41-4	Ethylbenzene	13000	U	13000	
591-78-6	2-Hexanone	25000	U	25000	
75-09-2	Methylene Chloride	13000	U	13000	
108-10-1	4-Methyl-2-pentanone (MIBK)	25000	U	25000	
100-42-5	Styrene	13000	U	13000	
79-34-5	1,1,2,2-Tetrachloroethane	13000	U	13000	
127-18-4	Tetrachloroethene	13000	U	13000	
108-88-3	Toluene	13000	U	13000	
71-55-6	1,1,1-Trichloroethane	**110000**		13000	
79-00-5	1,1,2-Trichloroethane	13000	U	13000	
79-01-6	Trichloroethene	13000	U	13000	
75-01-4	Vinyl Chloride	13000	U	13000	
95-47-6	o-Xylene	13000	U	13000	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1545
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 17:11
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1105754-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5343.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2500

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	13000	U	13000	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	10/19/11 17:11	
Toluene-d8	105	87-121	10/19/11 17:11	
Dibromofluoromethane	104	89-119	10/19/11 17:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1545
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/18/11 11:10
Sample Name:	MW-205	**Units:**	µg/L
Lab Code:	R1105754-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star280.run	**Instrument Name:**	R-GC-02
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	**24**		1.0	
74-85-1	Ethylene	**17**		1.0	
74-82-8	Methane	**24**		2.0	
74-98-6	Propane	**1.4**		1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1545
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/17/11 15:54
Sample Name:	MW-205	**Units:**	mg/L
Lab Code:	R1105754-005	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method:	Organic Acids	**Analysis Lot:**	265510
Data File Name:	J:\ACQUDATA\HPLC05\DATA\101711\X0006507.D\	**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	**500**		25	
107-92-6	Butanoic Acid (Butyric Acid)	**3000**		50	
50-21-5	Lactic Acid	25	U	25	
79-09-4	Propionic Acid	**730**		25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1400
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	OW-302S		
Lab Code:	R1105754-006	**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	**958**		mg/L	2.0	1	NA	10/21/11 09:00	
Chloride	9056A	**3200**		mg/L	200	1000	NA	10/17/11 23:44	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**6.9**		mg/L	1.0	10	NA	10/15/11 13:58	
Nitrate as Nitrogen	Calculation	0.05	U	mg/L	0.05	1	NA		
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	10/28/11 12:02	
Nitrite as Nitrogen	353.2	**0.031**		mg/L	0.010	1	NA	10/15/11 13:10	
Sulfate	9056A	2.0	U	mg/L	2.0	10	NA	10/18/11 01:49	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/18/11	10/18/11 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1400
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	OW-302S		
Lab Code:	R1105754-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**50600**		µg/L	500	5	10/19/11	10/28/11 22:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1400
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/20/11 16:14
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1105754-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5367.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	500

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10000	U	10000	
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	**72000**		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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1400
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/20/11 16:14
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1105754-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5367.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	500

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	2500	U	2500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	10/20/11 16:14	
Toluene-d8	104	87-121	10/20/11 16:14	
Dibromofluoromethane	103	89-119	10/20/11 16:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1400
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/18/11 11:27
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1105754-006	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star281.run	**Instrument Name:**	R-GC-02
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
74-84-0	Ethane	**5.7**		1.0	
74-85-1	Ethylene	**5.2**		1.0	
74-82-8	Methane	**700**	E	2.0	
74-98-6	Propane	1.0	U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1400
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/18/11 13:37
Sample Name:	OW-302S	**Units:**	µg/L
Lab Code:	R1105754-006	**Basis:**	NA
Run Type:	Dilution		

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star287.run	**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	**11000**	D	250	
74-98-6	Propane	130	U	130	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-501		
Lab Code:	R1105754-007	**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	**424**		mg/L	2.0	1	NA	10/21/11 09:00	
Chloride	9056A	**1940**		mg/L	200	1000	NA	10/17/11 23:57	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**0.26**		mg/L	0.10	1	NA	10/15/11 13:58	H
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	10/28/11 12:03	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/15/11 13:10	
Sulfate	9056A	**4.3**		mg/L	2.0	10	NA	10/18/11 02:01	
Sulfide, Acid-Soluble	9034	**2.2**		mg/L	1.0	1	10/18/11	10/18/11 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-501		
Lab Code:	R1105754-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**4660**		µg/L	100	1	10/19/11	10/28/11 22:20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 18:11
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1105754-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5345.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	100	U	100	
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	**1000**	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	**100**		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	**84**		25	
95-47-6	o-Xylene	25	U	25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 18:11
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1105754-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5345.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	25	U	25	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/19/11 18:11	
Toluene-d8	103	87-121	10/19/11 18:11	
Dibromofluoromethane	105	89-119	10/19/11 18:11	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/20/11 16:43
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1105754-007	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5368.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
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	**900**	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	**92**	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	**72**	D	50	
95-47-6	o-Xylene	50	U	50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/20/11 16:43
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1105754-007	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5368.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	50	U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	10/20/11 16:43	
Toluene-d8	103	87-121	10/20/11 16:43	
Dibromofluoromethane	103	89-119	10/20/11 16:43	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 1245
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/18/11 11:49
Sample Name:	MW-501	**Units:**	µg/L
Lab Code:	R1105754-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star282.run	**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	**13000**		500	
74-98-6	Propane	250	U	250	

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Collected: 10/14/11 0945
Date Received: 10/15/11

Sample Name: MW-502
Lab Code: R1105754-008

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	**730**		mg/L	2.0	1	NA	10/21/11 09:00	
Chloride	9056A	**676**		mg/L	40	200	NA	10/18/11 00:09	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	**0.76**		mg/L	0.10	1	NA	10/15/11 13:58	H
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	10/28/11 12:04	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/15/11 13:12	
Sulfate	9056A	2.0	U	mg/L	2.0	10	NA	10/18/11 02:13	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/18/11	10/18/11 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0945
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-502		
Lab Code:	R1105754-008	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**637000**		µg/L	5000	50	10/19/11	10/28/11 22:27	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0945
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 18:41
Sample Name:	MW-502	**Units:**	µg/L
Lab Code:	R1105754-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5346.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	100

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	2000	U	2000	
71-43-2	Benzene	500	U	500	
75-27-4	Bromodichloromethane	500	U	500	
75-25-2	Bromoform	500	U	500	
74-83-9	Bromomethane	500	U	500	
78-93-3	2-Butanone (MEK)	1000	U	1000	
75-15-0	Carbon Disulfide	1000	U	1000	
56-23-5	Carbon Tetrachloride	500	U	500	
108-90-7	Chlorobenzene	500	U	500	
75-00-3	Chloroethane	**16000**		500	
67-66-3	Chloroform	500	U	500	
74-87-3	Chloromethane	500	U	500	
124-48-1	Dibromochloromethane	500	U	500	
75-34-3	1,1-Dichloroethane	500	U	500	
107-06-2	1,2-Dichloroethane	500	U	500	
75-35-4	1,1-Dichloroethene	500	U	500	
156-59-2	cis-1,2-Dichloroethene	500	U	500	
156-60-5	trans-1,2-Dichloroethene	500	U	500	
78-87-5	1,2-Dichloropropane	500	U	500	
10061-01-5	cis-1,3-Dichloropropene	500	U	500	
10061-02-6	trans-1,3-Dichloropropene	500	U	500	
100-41-4	Ethylbenzene	500	U	500	
591-78-6	2-Hexanone	1000	U	1000	
75-09-2	Methylene Chloride	500	U	500	
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U	1000	
100-42-5	Styrene	500	U	500	
79-34-5	1,1,2,2-Tetrachloroethane	500	U	500	
127-18-4	Tetrachloroethene	500	U	500	
108-88-3	Toluene	500	U	500	
71-55-6	1,1,1-Trichloroethane	500	U	500	
79-00-5	1,1,2-Trichloroethane	500	U	500	
79-01-6	Trichloroethene	500	U	500	
75-01-4	Vinyl Chloride	500	U	500	
95-47-6	o-Xylene	500	U	500	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0945
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 18:41
Sample Name:	MW-502	**Units:**	µg/L
Lab Code:	R1105754-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5346.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	100

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	500	U	500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	10/19/11 18:41	
Toluene-d8	104	87-121	10/19/11 18:41	
Dibromofluoromethane	104	89-119	10/19/11 18:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0945
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/18/11 12:07
Sample Name:	MW-502	**Units:**	µg/L
Lab Code:	R1105754-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star283.run	**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	17000		500	
74-98-6	Propane	250	U	250	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0800
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-3		
Lab Code:	R1105754-009	**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	**184**		mg/L	2.0	1	NA	10/21/11 09:00	
Chloride	9056A	**407**		mg/L	20	100	NA	10/18/11 01:24	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B,4.c	0.10	U	mg/L	0.10	1	NA	10/15/11 13:58	H
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	10/28/11 12:05	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/15/11 13:13	
Sulfate	9056A	**2.7**		mg/L	2.0	10	NA	10/18/11 02:51	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/18/11	10/18/11 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0800
Sample Matrix:	Water	**Date Received:**	10/15/11
Sample Name:	MW-3		
Lab Code:	R1105754-009	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	**18200**		µg/L	100	1	10/19/11	10/28/11 22:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0800
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 19:10
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1105754-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5347.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
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	**1100**		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	**52**		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	**190**		50	
95-47-6	o-Xylene	50	U	50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0800
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/19/11 19:10
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1105754-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5347.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	50	U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	10/19/11 19:10	
Toluene-d8	105	87-121	10/19/11 19:10	
Dibromofluoromethane	104	89-119	10/19/11 19:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	10/14/11 0800
Sample Matrix:	Water	**Date Received:**	10/15/11
		Date Analyzed:	10/18/11 13:47
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1105754-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star288.run	**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	**53**		25	
74-82-8	Methane	**2400**		50	
74-98-6	Propane	25	U	25	

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1105754-MB1	**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	2.0	U	mg/L	2.0	1	NA	10/21/11 09:00	
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	10/17/11 20:00	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	10/15/11 13:58	
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	10/28/11 11:59	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/15/11 13:08	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	10/18/11 00:59	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/18/11	10/18/11 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1105754-MB2	**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	2.0	U	mg/L	2.0	1	NA	10/21/11 09:00	
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	10/18/11 00:59	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1105754-MB	**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	10/19/11	10/28/11 20:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/19/11 11:44
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1110483-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5332.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/19/11 11:44
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1110483-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	265875
Data File Name:	J:\ACQUDATA\msvoa10\data\101911\D5332.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	10/19/11 11:44	
Toluene-d8	104	87-121	10/19/11 11:44	
Dibromofluoromethane	103	89-119	10/19/11 11:44	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/20/11 11:15
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1110565-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5357.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
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	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/20/11 11:15
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1110565-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	266151
Data File Name:	J:\ACQUDATA\msvoa10\data\102011\D5357.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	10/20/11 11:15	
Toluene-d8	105	87-121	10/20/11 11:15	
Dibromofluoromethane	104	89-119	10/20/11 11:15	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/18/11 08:35
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1110434-01	**Basis:**	NA

Dissolved Gases by GC/FID

Analytical Method:	RSK 175	**Analysis Lot:**	265794
Data File Name:	star275.run	**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	2.0	U	2.0	
74-98-6	Propane	1.0	U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Haley & Aldrich, Incorporated	**Service Request:**	R1105754
Project:	Coopervision/70665-001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/17/11 11:24
Sample Name:	Method Blank	**Units:**	mg/L
Lab Code:	RQ1110346-01	**Basis:**	NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analytical Method:	Organic Acids	**Analysis Lot:**	265510
Data File Name:	J:\ACQUDATA\HPLC05\DATA\101711\X0006502.D\	**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	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/15/11 - 10/28/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1105754-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	2.00	2.00	100	80 - 120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.416	0.40	104	67 - 140
Nitrate+Nitrite as Nitrogen	353.2	0.513	0.500	103	90 - 110
Nitrite as Nitrogen	353.2	0.244	0.250	98	90 - 110
Sulfate	9056A	1.95	2.00	97	80 - 120
Alkalinity as CaCO3, Total	SM 2320 B	19.9	20.0	100	72 - 115
Sulfide, Acid-Soluble	9034	8.02	11.9	68	29 - 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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/18/11 - 10/21/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

		Lab Control Sample R1105754-LCS2			
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Chloride	9056A	2.00	2.00	100	80 - 120
Alkalinity as CaCO3, Total	SM 2320 B	950	1000	95	72 - 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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/28/11

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1105754-LCS Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010C	1040	1000	104	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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/19/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 265875

Analyte Name	Lab Control Sample RQ1110483-02 Result	Spike Amount	% Rec	% Rec Limits
Acetone	19.6	20.0	98	54 - 139
Benzene	18.1	20.0	90	78 - 121
Bromodichloromethane	18.9	20.0	94	80 - 125
Bromoform	19.4	20.0	97	68 - 130
Bromomethane	13.1	20.0	65	57 - 144
2-Butanone (MEK)	16.9	20.0	85	60 - 133
Carbon Disulfide	19.4	20.0	97	52 - 140
Carbon Tetrachloride	19.6	20.0	98	68 - 133
Chlorobenzene	19.5	20.0	98	80 - 121
Chloroethane	18.4	20.0	92	71 - 130
Chloroform	18.5	20.0	92	78 - 125
Chloromethane	15.7	20.0	79	61 - 138
Dibromochloromethane	19.9	20.0	100	78 - 133
1,1-Dichloroethane	18.1	20.0	91	76 - 124
1,2-Dichloroethane	18.9	20.0	94	73 - 127
1,1-Dichloroethene	18.8	20.0	94	72 - 129
cis-1,2-Dichloroethene	18.5	20.0	92	78 - 122
trans-1,2-Dichloroethene	17.6	20.0	88	75 - 121
1,2-Dichloropropane	18.7	20.0	94	80 - 123
cis-1,3-Dichloropropene	17.8	20.0	89	77 - 125
trans-1,3-Dichloropropene	18.0	20.0	90	69 - 127
Ethylbenzene	19.6	20.0	98	78 - 123
2-Hexanone	17.8	20.0	89	61 - 131
Methylene Chloride	17.4	20.0	87	75 - 125
4-Methyl-2-pentanone (MIBK)	17.7	20.0	89	61 - 132
Styrene	20.2	20.0	101	80 - 132
1,1,2,2-Tetrachloroethane	19.3	20.0	97	72 - 131
Tetrachloroethene	19.3	20.0	96	72 - 131
Toluene	18.5	20.0	92	78 - 122
1,1,1-Trichloroethane	17.7	20.0	89	72 - 128
1,1,2-Trichloroethane	18.8	20.0	94	80 - 122
Trichloroethene	18.4	20.0	92	74 - 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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/19/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 265875

Analyte Name	Lab Control Sample RQ1110483-02 Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	17.8	20.0	89	72 - 138
o-Xylene	20.0	20.0	100	77 - 118
m,p-Xylenes	40.3	40.0	101	79 - 126

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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/20/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 266151

Analyte Name	Lab Control Sample RQ1110565-02 Result	Spike Amount	% Rec	% Rec Limits
Acetone	16.9	20.0	84	54 - 139
Benzene	18.9	20.0	94	78 - 121
Bromodichloromethane	20.1	20.0	100	80 - 125
Bromoform	20.8	20.0	104	68 - 130
Bromomethane	15.3	20.0	76	57 - 144
2-Butanone (MEK)	18.5	20.0	93	60 - 133
Carbon Disulfide	16.9	20.0	84	52 - 140
Carbon Tetrachloride	21.3	20.0	107	68 - 133
Chlorobenzene	20.0	20.0	100	80 - 121
Chloroethane	19.7	20.0	99	71 - 130
Chloroform	19.2	20.0	96	78 - 125
Chloromethane	16.0	20.0	80	61 - 138
Dibromochloromethane	21.1	20.0	106	78 - 133
1,1-Dichloroethane	18.6	20.0	93	76 - 124
1,2-Dichloroethane	19.6	20.0	98	73 - 127
1,1-Dichloroethene	19.0	20.0	95	72 - 129
cis-1,2-Dichloroethene	19.0	20.0	95	78 - 122
trans-1,2-Dichloroethene	18.5	20.0	92	75 - 121
1,2-Dichloropropane	19.2	20.0	96	80 - 123
cis-1,3-Dichloropropene	18.3	20.0	91	77 - 125
trans-1,3-Dichloropropene	18.5	20.0	93	69 - 127
Ethylbenzene	20.2	20.0	101	78 - 123
2-Hexanone	18.4	20.0	92	61 - 131
Methylene Chloride	18.3	20.0	91	75 - 125
4-Methyl-2-pentanone (MIBK)	17.9	20.0	89	61 - 132
Styrene	20.4	20.0	102	80 - 132
1,1,2,2-Tetrachloroethane	19.2	20.0	96	72 - 131
Tetrachloroethene	20.4	20.0	102	72 - 131
Toluene	19.3	20.0	97	78 - 122
1,1,1-Trichloroethane	18.8	20.0	94	72 - 128
1,1,2-Trichloroethane	18.7	20.0	93	80 - 122
Trichloroethene	19.3	20.0	96	74 - 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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/20/11

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 266151

Lab Control Sample
RQ1110565-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	18.7	20.0	93	72 - 138
o-Xylene	20.4	20.0	102	77 - 118
m,p-Xylenes	41.4	40.0	104	79 - 126

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

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/18/11

Lab Control Sample Summary
Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L
Basis: NA

Analysis Lot: 265794

Analyte Name	Lab Control Sample RQ1110434-02 Result	Spike Amount	% Rec	Duplicate Lab Control Sample RQ1110434-03 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	27.5	26.0	106	26.3	26.0	101	56 - 148	4	30
Ethylene	22.8	24.3	94	23.3	24.3	96	58 - 155	2	30
Methane	27.3	26.2	104	26.4	26.2	100	55 - 150	3	30
Propane	26.6	25.5	104	25.7	25.5	101	56 - 154	3	30

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1105754
Date Analyzed: 10/17/11

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: 265510

	Lab Control Sample RQ1110346-02			Duplicate Lab Control Sample RQ1110346-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Pyruvic Acid	1.04	1.00	104	1.04	1.00	104	70 - 130	<1	30
Acetic Acid	9.97	10.0	100	9.94	10.0	99	70 - 135	<1	30
Butanoic Acid (Butyric Acid)	9.12	10.0	91	10.4	10.0	104	78 - 113	13	30
Lactic Acid	8.77	9.97	88	8.92	9.97	89	61 - 109	2	30
Propionic Acid	10.3	9.97	103	10.3	9.97	104	80 - 125	<1	30

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Columbia Analytical Services℠ — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax)

Project Name: COOPERVISION	Project Number:
Project Manager: M. RAMSDELL	Report CC:
Company/Address: HALEY & ALDRICH OF NY, 200 TOWN CENTRE DR, ROCHESTER, NY 14623	
Phone #: 585-321-4262	E-mail: mramsdell@haleyaldrich.com
Sampler's Signature: D.Naramor/E.SCHULTZ	Sampler's Printed Name: [signature]

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Sulfides	Fe, Fe+2, NO3, NO2, Cl, SO4	Alkalinity	RSK-175			Organic Acids	REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE																				
OW-306	-001	10/13/11	1305	AQ	3	X														
MW-203	-002	10/13/11	1435	AQ	3	X														
MW-202	-003	10/13/11	1600	AQ	3	X														
MW-204	-004	10/13/11	1705	AQ	3	X														
MW-205	-005	10/14/11	1575	AQ	11	X							X	X	X	X			X	
OW-302S	-006	10/14/11	1400	AQ	10	X							X	X	X	X				
MW-501	-007	10/14/11	12:45	AQ	10	X							X	X	X	X				
MW-502	-008	10/14/11	9:45	AQ	10	X							X	X	X	X				
MW-3	-009	10/14/11	800	AQ	10	X							X	X	X	X				

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ______

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
X Standard

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

Edata ✓ Yes ___ No

INVOICE INFORMATION
PO #: 70665-018
BILL TO:

R1105754
Haley & Aldrich, Inc.
Coopervision

STATE WHERE SAMPLES WERE COLLECTED: NEW YORK

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature: [signature]	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name: Emil Schultz	Printed Name: Gregory LaFave	Printed Name	Printed Name	Printed Name	Printed Name
Firm: H+A	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 10/15/11 @ 1141	Date/Time: 10/15/11 1141	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

Cooler Receipt And Preservation Check Form

Project/Client Cooperwiring Folder Number R1105754

Cooler received on 10/15/11 by: (JK) COURIER: CAS 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	barely		
6.	Where did the bottles originate?	(CAS/ROC,)	CLIENT			
7.	Temperature of cooler(s) upon receipt:	9.3°	8.8°			
	Is the temperature within 0° - 6° C?:	Yes	Yes	Yes	Yes	Yes
	If No, Explain Below	(No)	(No)	No	No	No

Date/Time Temperatures Taken: _____

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: notified client on acc.

PC Secondary Review: KB 10/17/11

Cooler Breakdown: Date: 10/17/11 Time: 1108 by: DPW

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
≥12	NaOH				
≤2	HNO_3	✓	✓	BDB261135	9/12
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-	WC1030986	5/12
	HCl	*	*	411/010	9/12

Sample ID	Vol. Added	Lot Added	Final pH
MW-502, MW-26S	1.0mL	BDB261135	≤2

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

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 1-132-001, 091911-2LL, 072511-2DD

Other Comments:

PC Secondary Review: KB 10/2/11

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

H:\SMODOCS\Cooler Receipt 3.doc