



July 7, 2016

Mr. Qu Qi
IHSB Central Unit Regional Supervisor
NCDEQ DWM
217 West Jones Street
Raleigh, North Carolina 27603

RE: **2016 Annual Water Quality Monitoring Report**
TE Connectivity Legacy Site
Former AMP Building 90
375 W. Bodenhamer Street
Kernersville, North Carolina 27284
IHSB #NONCD0002205

Dear Mr. Qi,

On behalf of TE Connectivity, HRP Associates, Inc. (HRP) presents the enclosed 2016 Annual Water Quality Monitoring Report pertaining to the above referenced site. Data presented herein was obtained in accordance with the Site's approved Sampling and Analysis Plan. Analytical results are consistent with historical trends.

Please do not hesitate to contact me at (800) 752-3922 with any questions regarding the content of this report or ongoing site activities. Thank you for your time and have a good day.

Sincerely,
HRP ASSOCIATES, INC.

A handwritten signature in black ink that reads 'S. Malin'.

Shaun C. Malin, LG, RSM
Regional Manager

Enclosure

Cc: Ms. Bonnie Ware (NCDEQ WSRO)
Mr. Glen Foster (TE Connectivity)



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2016 ANNUAL WATER QUALITY MONITORING REPORT

TE Connectivity Legacy Site
Former AMP Building 90
375 W. Bodenhamer Street
Kernersville, North Carolina 27284
NCDEQ IHSB #NONCD0002205

Prepared For:

TE Connectivity
c/o: Mr. Glen Foster
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PO Box 3608
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Prepared By:

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HRP #: TYC2036.GW

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General Information

Site Information:

Former AMP Building 90
375 W. Bodenhamer Street
Kernersville, North Carolina 27284
NCDEQ IHSB #NONCD0002205

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2800 Fulling Mill Road
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Report Author:



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NC Licensed Geologist:



Shaun C. Malin, LG #2216
Regional Manager

1.0 EXECUTIVE SUMMARY

HRP Associates, Inc. (HRP) presents the following 2016 Annual Water Quality Monitoring Report to the North Carolina Department of Environmental Quality (NCDEQ) on behalf of TE Connectivity. This report presents groundwater sample acquisition methods and procedures, and summarizes the data obtained at the former facility located at 375 West Bodenhamer Street, Kernersville, North Carolina. The property was formerly known as AMP Incorporated Building 90 (#NONCD0002205) and is herein referred to as the Site.

Following 28 years of remediation and routine groundwater monitoring, 1,1,2-trichloroethane (TCA) and 1,2-dichloroethane (DCA) are the primary constituents of concern detected in Site groundwater. Data obtained in May 2016 is consistent with historical trends.

DCA was detected in EW-7D above the North Carolina groundwater quality standard at a concentration of 1.3 micrograms per liter ($\mu\text{g/L}$). TCA was observed in samples collected from EW-7D and EW-6D, albeit at concentrations below the EPA's maximum contaminant level of 5 $\mu\text{g/L}$.

Decades of analytical data demonstrate compliance with regulatory standards in six of eight wells (**Appendix A**). Routine monitoring of compliant wells is not warranted at this advanced stage in the remedial effort. On behalf of TE, HRP requests the NCDEQ's concurrence regarding the permanent abandonment of wells EW-6D, MW-5D, MW-6D, MW-8, MW-9, and MW-10.

A revised Sampling and Analysis Plan (SAP) is presented in Section 5.0. The monitoring of EW-5D and EW-7D will continue annually in support of the Monitored Natural Attenuation remedy. A determination of No Further Action will be pursued when compliance is achieved in these wells for four consecutive events.

2.0 INTRODUCTION

Annual groundwater monitoring activities were conducted in May 2016 at the former AMP Building 90 located at 375 West Bodenhamer Street in Kernersville, North Carolina in accordance with the Site's approved Sampling and Analysis Plan (SAP) in support of the monitored natural attenuation (MNA) remedial strategy.

AMP historically conducted metal stamping operations within Building 90. Dissolved chlorinated solvents in groundwater are related to 1) a former waste accumulation area (waste oils and solvents), and 2) three underground storage tanks (waste oil and solvent storage). These areas were located near the west corner of the building (**Figure 1**). The Site was assigned incident number #NONCD0002205 by the NCDEQ Division of Waste Management (DWM) Inactive Hazardous Sites Branch (IHSB). Note that the Site was formerly identified as #5956 when regulated by the Division of Water Quality - Aquifer Protection Section.

A pump and treatment system was utilized to remove constituents of concern from groundwater between 1987 and 2001. The system comprised one recovery well which discharged treated water to a NCDEQ permitted infiltration gallery. Operation of the system ceased in February 2001 upon achievement of remedial objectives. Decommission of the system was completed in August 2011. A natural attenuation remedial strategy (i.e., Monitored Natural Attenuation) has been employed at the Site following the completion of active remediation in 2001.

3.0 **ROUTINE MONITORING ACTIVITIES**

HRP personnel collected groundwater samples in accordance with EPA Region IV standard operating procedures and pertinent NCDEQ protocols. The groundwater monitoring network consists of eight well locations. Five of the eight wells were sampled in May 2016 to assess current groundwater conditions in accordance with the SAP. Active and inactive monitoring locations are depicted in **Figure 1**.

3.1 **HYDROGEOLOGIC DATA**

Depth-to-water elevations were recorded at seven monitoring locations using a decontaminated air/water interface probe. Measurements were recorded in feet below ground surface (bgs) to the nearest 0.01-foot from the surveyed top of casing. Water level gauging data provides estimates of groundwater flow direction and hydraulic gradients. Significant precipitation preceded the annual monitoring event. HRP personnel were unable to obtain a water level from MW-5D due to the presence of approximately one inch of standing water within the field that the well resides. The inability to collect this data point did not impact interpretation of hydrogeologic conditions.

3.1.1 **Groundwater Flow Direction**

Groundwater flow direction was interpreted by contouring water elevation data calculated from depth-to-water measurements. Flow direction is generally perpendicular to the elevation contours, or equipotential lines. Potentiometric surface data are presented in **Table 1** and depicted on **Figure 1**.

3.1.2 **Estimated Hydraulic Gradients**

The horizontal hydraulic gradient within the surficial aquifer was estimated by comparing the groundwater elevation recorded in monitoring well EW-7D with elevations observed in MW-10 and MW-8. The hydraulic gradient was calculated using the standard equation:

$$i = \Delta h / \Delta L,$$

where Δh is the change in head between two (2) wells and ΔL is the horizontal distance between wells. The average horizontal hydraulic gradient was approximately 0.010 ft/ft in May 2016.

3.2 **SAMPLING METHODOLOGY**

Water quality field parameters (i.e., conductivity, pH, turbidity, dissolved oxygen, and temperature) were measured at discrete volumes during the purging of each well using portable field instruments. The instruments were calibrated daily before use per the manufacturer's directions. Field parameter data are presented as **Appendix C**.

Wells were purged until a) water quality parameters stabilized, b) a total of five well-volumes were evacuated, or c) well yield diminished. Wells were purged and sampled using a decontaminated submersible stainless-steel pump or a peristaltic pump with dedicated tubing.

3.3 LABORATORY ANALYTICAL METHODS

Samples were submitted under chain-of-custody to a North Carolina certified laboratory for the analysis of volatile organic compounds (VOCs) via EPA Method 601. Analytical results are presented in Section 4.0 and summarized in **Table 2**. The laboratory analytical report is presented as **Appendix B**.

All samples were collected in accordance with the EPA Region IV Science and Ecosystem Support Division's (SESD) Quality System Operating Procedures. Laboratory "blanks" were collected to monitor quality control and assess for potential cross-contamination resulting from exposure of the sample or sampling equipment to foreign materials. One trip blank, provided by the laboratory, was stored with all samples to verify that contamination was not introduced during transport.

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical data was evaluated by comparing constituent detections to the 15A North Carolina Administrative Code (NCAC) 02L.0202 Groundwater Quality Standards (i.e., 2L Standard). For those constituents for which there is no 2L Standard, the EPA maximum containment levels (MCL) were used for evaluation.

TCA and DCA are the primary constituents of concern remaining at the Site following 28 years of remediation and routine groundwater monitoring. DCA was detected in EW-7D above its 2L Standard (0.4 µg/L) at a concentration of 1.3 µg/L. TCA was reported in EW-6D and EW-7D below the EPA MCL (5.0 µg/L) at concentrations of 4.0 µg/L and 3.6 µg/L, respectively. EW-7D was the only monitoring well that contained constituent concentrations in excess of regulatory criteria during the annual reporting period.

North Carolina has established a TCA *Interim Maximum Allowable Concentration* (IMAC) of 0.6 µg/L; however, this concentration has not been formally published within Section .0202(g) of 15A NCAC 02L. TCA was observed within EW-7D and EW-6D and at concentrations above the IMAC during the annual reporting period.

VOCs were not reported in groundwater samples collected from EW-5D, MW-8, or MW-9 during the May 2016 monitoring event.

Appendix A presents a summary of historic analytical data and includes plots of temporal variation. **Figure 2** and **Table 2** summarize the VOCs detected during the annual monitoring event. **Appendix B** comprises laboratory reports and chain-of-custody forms.

5.0 REVISED SAMPLING AND ANALYSIS PLAN

The Site's groundwater monitoring network consists of eight well locations; five of which were active during the May 2016 annual sampling event in accordance with the current Sampling and Analysis Plan (SAP). The table below summarizes the primary constituent of concern and the most recent exceedance reported in each well.

Former extraction well EW-7D is the only monitoring location incorporated in the current SAP that consistently observes regulatory exceedances at this advanced stage in the remedial effort (**Appendix A**). As such, adjustments to the 2017 SAP are warranted based on the information presented below.

| Well ID | Primary COC Exceedance | COC Last Detected | Consecutive Events in Compliance | 2016 SAP | 2017 SAP |
|---------|------------------------|-------------------|----------------------------------|----------|----------|
| EW-5D | Vinyl Chloride | 05/07/13 | 3 | x | x |
| EW-6D | Vinyl Chloride | 05/24/12 | 4 | x | |
| EW-7D | 1,2-DCA | 05/05/16 | NA | x | x |
| MW-5D | 1,1,2-DCA | 02/27/98 | Removed from SAP ¹ | | |
| MW-6D | 1,1,2-TCA | 10/28/91 | 21 | | |
| MW-8 | n/a | | 47 | x | |
| MW-9 | 1,1,2-TCA | 02/28/03 | 14 | x | |
| MW-10 | n/a | | 17 | | |

Notes:

COC - constituent of concern

n/a - not applicable

NA - not achieved

SAP - Sampling and Analysis Plan

¹ Well removed from SAP in 1998 with concurrence from NCDENR; deemed redundant with EW-5D (reference Appendix D of this report).

The most recent regulatory exceedance in EW-5D was reported in May 2013 (vinyl chloride). Constituent detections and/or exceedances have not been observed at EW-5D for three consecutive monitoring events. It is anticipated that May 2017 will represent the final monitoring of EW-5D.

Former extraction well EW-6D has achieved four consecutive monitoring events without an observed regulatory exceedance. TE will no longer collect groundwater samples at this location.

Vinyl chloride, 1,2-DCA, and 1,1,2-TCE were observed in EW-7D at concentrations in exceedance of regulatory standards during the May 2016 event. Annual monitoring of EW-7D will continue in 2017.

Monitoring well MW-5D has not been sampled since February 1998 due to its similarity with EW-5D (i.e., similar depths, screened interval, constituent concentrations, and approximately 25 feet apart). The monitoring of both wells was deemed redundant, and concurrence pertaining to the cessation of monitoring MW-5D was granted by the NCDENR in June 1998 (**Appendix D**).

Monitoring well MW-6D has not been sampled since 2013 following 21 consecutive monitoring events without an observed regulatory exceedance. The last reported exceedance was in October 1991.

Fourteen consecutive monitoring events have been performed without a regulatory exceedance reported in MW-9. The last exceedance was observed in February 2003. TE will no longer collect groundwater samples at this location.

Down-gradient wells MW-8 and MW-10 have never yielded a regulatory exceedance since installation in 1988 and 2001, respectively. TE will no longer collect groundwater samples at these locations.

HRP requests the NCDEQ's concurrence regarding the permanent abandonment of monitoring wells EW-6D, MW-5D, MW-6D, MW-8, MW-9, and MW-10 in consideration of the aforementioned information. The monitoring of EW-5D and EW-7D will continue annually until compliance is achieved for four consecutive events, at which time a determination of No Further Action will be requested.

6.0 **CONCLUSIONS AND RECOMMENDATIONS**

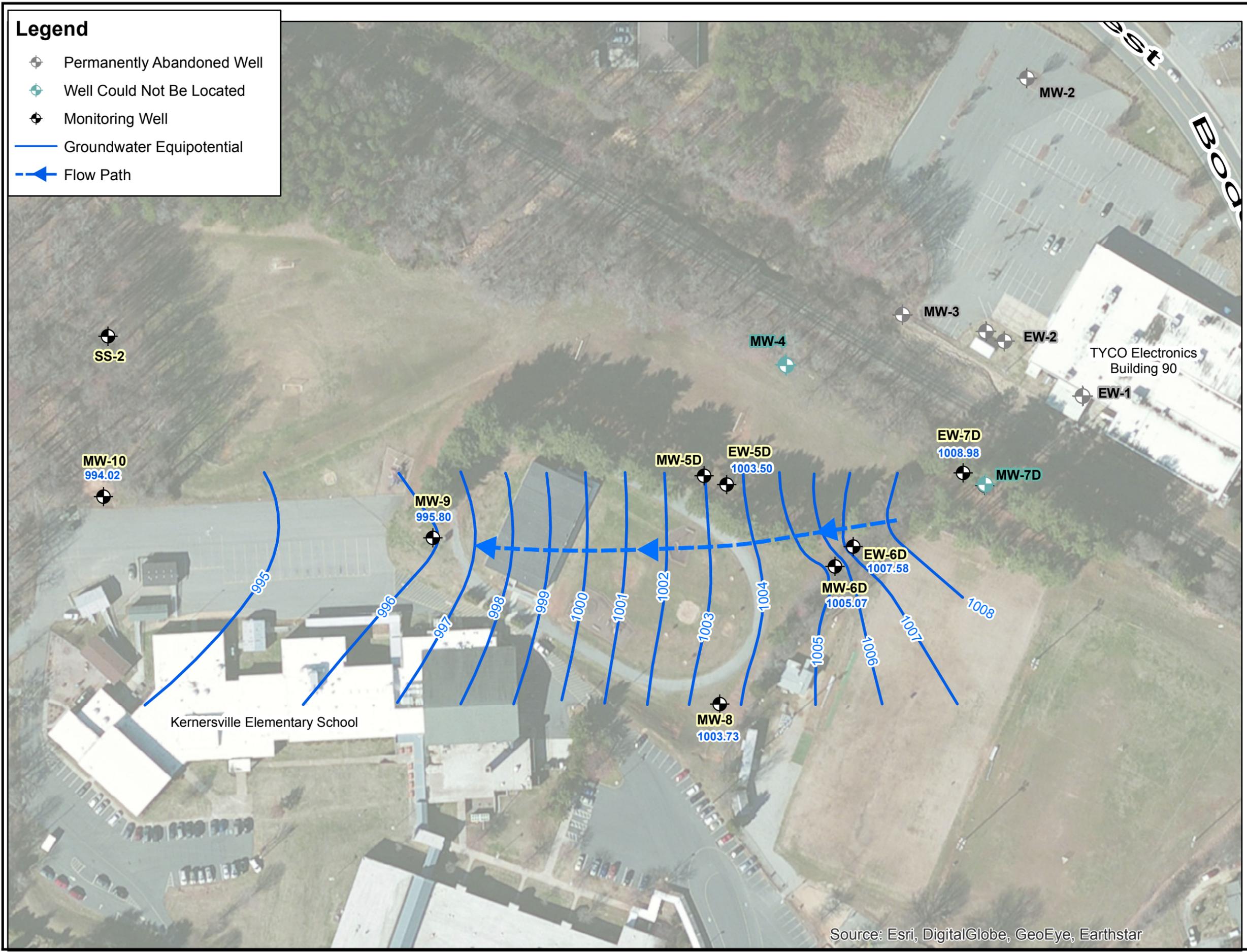
HRP concludes the following based on groundwater data obtained during the 2016 annual monitoring event in conjunction with historic information:

- Groundwater flows generally east to west with an average horizontal hydraulic gradient of 0.010 ft/ft;
- DCA was detected above the 2L Standard in up-gradient monitoring location EW-7D;
- TCA was detected in EW-6D and EW-7D at concentrations below the EPA MCL of 5 µg/L, but above the interim state criterion of 0.6 µg/L;
- Constituents of concern were not reported in groundwater samples collected from EW-5D, MW-8, and MW-9; and
- Natural attenuation processes are ongoing as demonstrated by the lack of constituent detections within down-gradient monitoring wells.

Routine groundwater monitoring of EW-5D and EW-7D will continue annually as discussed in Section 5.0. On behalf of TE, HRP requests the NCDEQ's concurrence regarding the permanent abandonment of monitoring wells EW-6D, MW-5D, MW-6D, MW-8, MW-9, and MW-10. The continued monitoring of these wells is not warranted due to the lack of constituent exceedances demonstrated over time. The next monitoring event will be performed in May 2017. A request for a determination of No Further Action will be pursued when analytical results demonstrate compliance with regulatory standards.

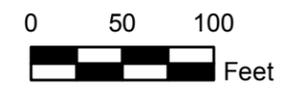
FIGURES

Path: H:\T\Tyco Electronics\2015-16\Kernersville\Figures\Figure 1 - Groundwater - May 2016.mxd



- Legend**
- ⊕ Permanently Abandoned Well
 - ⊕ Well Could Not Be Located
 - ⊕ Monitoring Well
 - Groundwater Equipotential
 - Flow Path

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| | | | | | |
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| Revisions | No. | Date | | | |
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| Designed By: | CLB | Drawn By: | BOB | Reviewed By: | SCA |
| Issue Date: | 06/06/2016 | Project No: | TYC2036.GW | Sheet Size: | 11X17 |

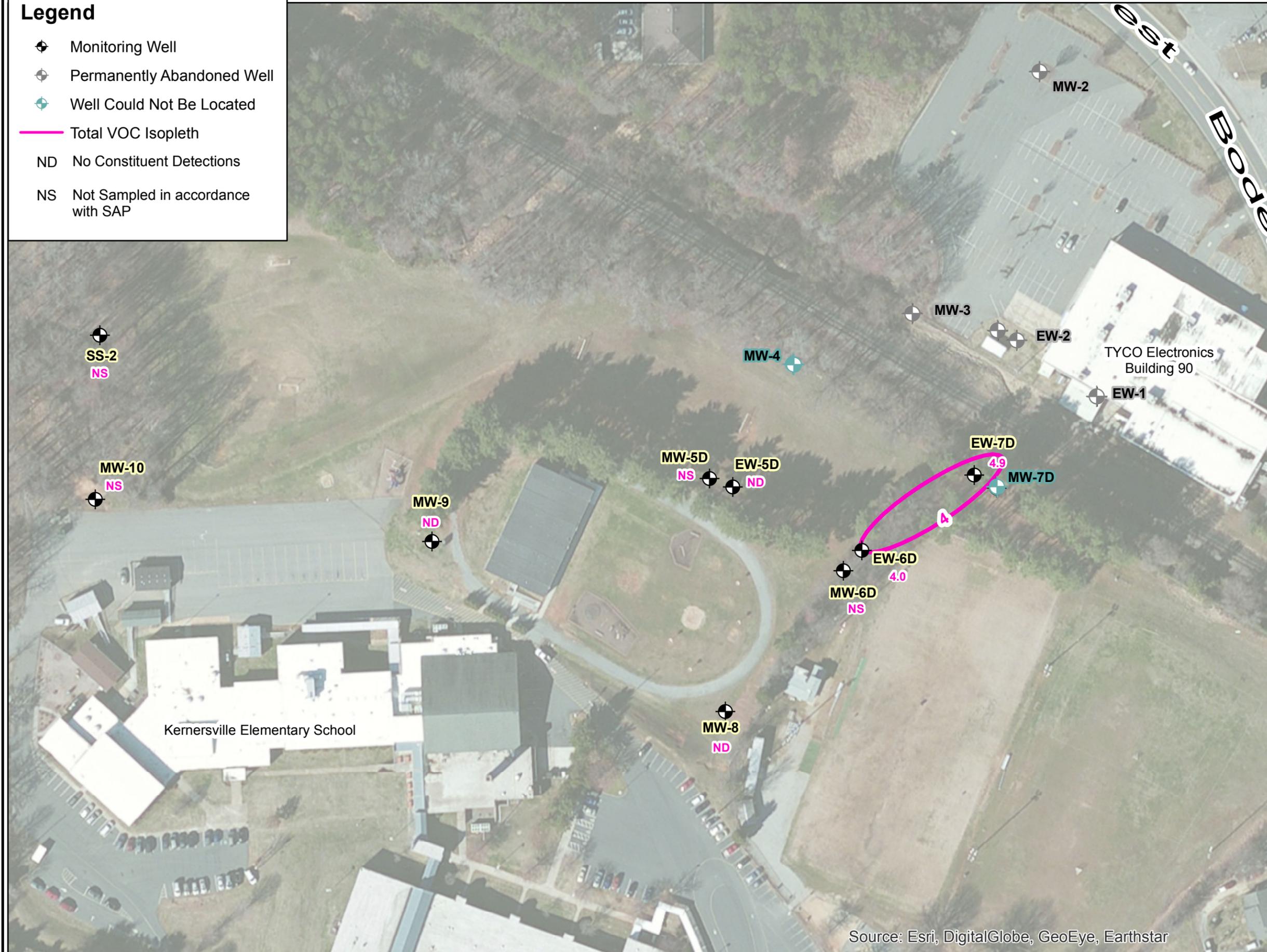
Groundwater Potentiometric Surface
 May 2016
 TYCO Electronics Corp.
 Building 90
 375 W. Bodenhamer Street
 Kernersville, North Carolina

FIGURE NO.
1

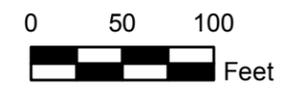
Source: Esri, DigitalGlobe, GeoEye, Earthstar

Legend

-  Monitoring Well
-  Permanently Abandoned Well
-  Well Could Not Be Located
-  Total VOC Isopleth
- ND No Constituent Detections
- NS Not Sampled in accordance with SAP



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| Issue Date: | 06/06/2016 | Project No: | TYC2036.GW | Sheet Size: | 11X17 |
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Total Volatile Organic Compound Isopleth - May 2016
 TYCO Electronics Corp.
 Building 90
 375 W. Bodenhamer Street
 Kenersville, North Carolina

FIGURE NO.
2

Source: Esri, DigitalGlobe, GeoEye, Earthstar

TABLES

TABLE 1
Groundwater Elevation Data and Other Field Measured Data
 Tyco Electronics, Kernersville, NC – Building 90
 May 5, 2016

| Well ID | Screen Interval (ft btoc) | Measuring Point Elevation (ft msl) | Depth to Water (ft btoc) | Groundwater Elevation (ft msl) | pH (su) | Conductivity (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp (°C) | Volume Purged (gal) |
|-------------|---------------------------|------------------------------------|--------------------------|--------------------------------|----------------|----------------------|-----------------|-------------------------|-----------|---------------------|
| EW-1 | 13.7-23.7 | 1017.02 | NM | NM | ABANDONED 2012 | | | | | |
| EW-2 | 10.2-20.2 | 1010.73 | NM | NM | ABANDONED 2012 | | | | | |
| EW-5d | 43-73 | 1010.91 | 7.41 | 1003.50 | 6.08 | 0.1126 | 3.92 | 1.65 | 13.9 | 12.5 |
| EW-6d | 56-76 | 1019.36 | 11.78 | 1007.58 | 5.62 | 0.0583 | 9.71 | 3.00 | 14.9 | 60.0 |
| EW-7d | 31-51 | 1018.19 | 9.21 | 1008.98 | 5.49 | 0.0845 | 10.27 | 0.26 | 13.8 | 50.0 |
| MW-2 | NA | 1017.74 | NM | NM | ABANDONED 2012 | | | | | |
| MW-3 | 13-23 | 1007.99 | NM | NM | ABANDONED 2012 | | | | | |
| MW-4 | 16-21.5 | 1008.88 | NM | NM | NS | NS | NS | NS | NS | NS |
| MW-5d | 62-72 | 1010.29 | NM | NM | NS | NS | NS | NS | NS | NS |
| MW-6d | 64-74 | 1017.76 | 12.69 | 1005.07 | NS | NS | NS | NS | NS | NS |
| MW-7d | 42-52 | 1018.59 | NM | NM | NS | NS | NS | NS | NS | NS |
| MW-8 | 48-58 | 1020.38 | 16.65 | 1003.73 | 6.27 | 0.1281 | 36.57 | 2.17 | 15.5 | 18.5 |
| MW-9 | 29-39 | 1019.71 | 23.91 | 995.80 | 5.28 | 0.0656 | 79.93 | 4.85 | 16.5 | 29.0 |
| MW-10 | 22.5-32.5 | 1004.62 | 10.60 | 994.02 | NS | NS | NS | NS | NS | NS |
| Infil. Gal. | NA | NA | NM | NM | NS | NS | NS | NS | NS | NS |

[5]
 [1]
 [2]
 [3]
 [3]
 [4]

NOTES:

- [1] Total depth of MW-2 measured from top of casing.
- [2] Well obstructed.
- [3] Monitoring well could not be located
- [4] Infiltration Trench closed according to State guidelines.
- [5] 1.47 feet of casing added to EW-6d
- ft btoc indicates feet below top of casing
- ft msl indicates feet above mean sea level
- d - indicates the well is screened in the deep water bearing unit
- NM: Not Measured
- NS: Not Sampled
- su: standard units
- mS/cm: millisiemens per centimeter
- NTU: Nephelometric Turbidity Unit
- °C: degrees Celcius
- Wells resurveyed, October 1997; the new elevations have been used for all elevation calculations.

TABLE 2
Summary of Detected Volatile Organic Compounds
Former AMP, Inc. Building 90 - Kernersville, North Carolina
May 5, 2016

| Wells Sampled | Date Sampled | Vinyl Chloride µg/L ^[1] | 1,2-DCA µg/L ^[1] | PCE µg/L ^[1] | 1,1,2-TCA µg/L ^[2] | Other VOCs µg/L | Total VOCs µg/L |
|-----------------|--------------|---------------------------------------|--------------------------------|----------------------------|----------------------------------|--------------------|--------------------|
| NC 2L Standard | | 0.03 | 0.4 | 0.7 | 5 | -- | -- |
| EW-5d | 5/5/2016 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| EW-6d | 5/5/2016 | <1.0 | <1.0 | <1.0 | 4.0 | ND | 4.0 |
| EW-7d | 5/5/2016 | <1.0 | 1.3 | <1.0 | 3.6 | ND | 4.9 |
| MW-8 | 5/5/2016 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| MW-9 | 5/5/2016 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| Trip Blank (TB) | 5/5/2016 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |

NOTES:

^[1] North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013).

^[2] EPA Maximum Contaminant Level (MCL)

BOLDFACE = concentration greater than applicable standard

EW - former extraction well

MW - monitoring well

ND - constituent not detected

DCA - dichloroethane

TCA - trichloroethane

PCE - tetrachloroethene

VOCs - volatile organic compounds

µg/L - micrograms per liter



APPENDIX A

Groundwater Analytical Database

APPENDIX A
Summary of VOCs Detected in EW-5D
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | Methylene Chloride | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|--------------------|---------|---------|-----------|------------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 5 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 27 Feb 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 15 Aug 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 37 | ND | 37.0 |
| 28 Feb 1996 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 13 | ND | 13.0 |
| 13 Aug 1996 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 1.9 | ND | 1.9 |
| 2 Oct 1996 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.7 | 1.1 | 3.8 |
| 29 Oct 1996 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 23 | ND | 23.0 |
| 5 Feb 1997 | 4.1 | <4.0 | <1.0 | <1.0 | <1.0 | 46 | ND | 50.1 |
| 2 May 1997 | <4.0 | <8.0 | <2.0 | <2.0 | <2.0 | 67 | ND | 67.0 |
| 28 May 1997 | <4.0 | <8.0 | <2.0 | <2.0 | <2.0 | 50 | ND | 50.0 |
| 27 Aug 1997 | <4.0 | <8.0 | <2.0 | <2.0 | <2.0 | 61 | ND | 61.0 |
| 27 Feb 1998 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 47 | ND | 47.0 |
| 18 Feb 1999 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 26 | ND | 26.0 |
| 31 Aug 1999 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 25 | ND | 25.0 |
| 26 Feb 2000 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 30 | ND | 30.0 |
| 31 Aug 2000 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 32 | ND | 32.0 |
| 8 Feb 2001 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 29 | ND | 29.0 |
| 10 Aug 2001 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.0 | ND | 2.0 |
| 21 Feb 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 9.0 | ND | 9.0 |
| 23 Aug 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 12 | ND | 12.0 |
| 14 Mar 2003 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 21 Aug 2003 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 4.2 | ND | 4.2 |
| 19 Feb 2004 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 4.7 | ND | 4.7 |
| 24 Aug 2004 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.9 | ND | 2.9 |
| 16 Feb 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 1.1 | ND | 1.1 |
| 17 Aug 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 23 Feb 2006 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 15 Aug 2006 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 30 May 2007 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 18 May 2009 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2011 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2012 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 7 May 2013 | 1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | 1.0 |
| 14 May 2014 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 25 Mar 2015 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 5 May 2016 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)

b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)

All units in µg/L

NA - Not available

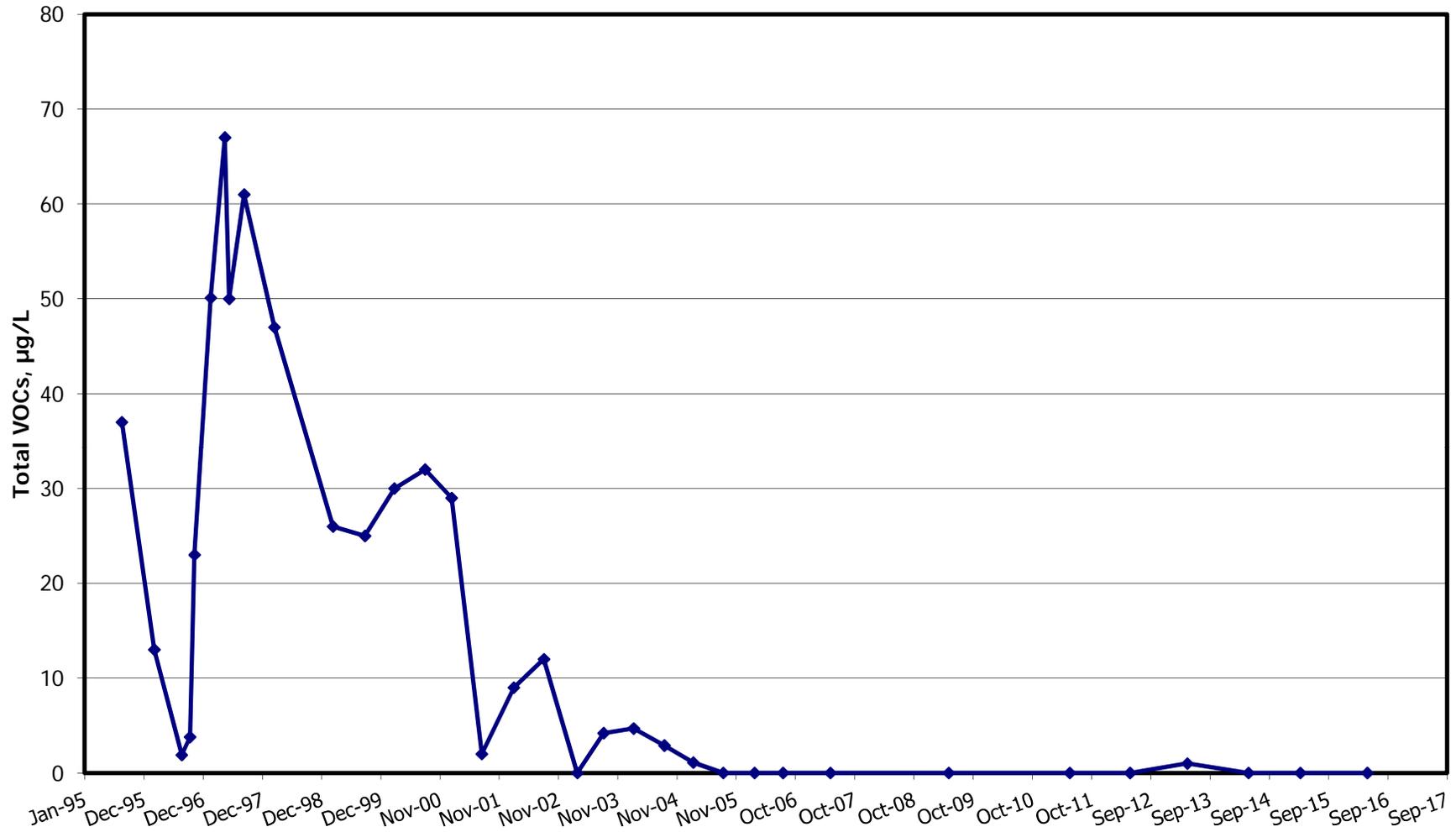
ND - Not detected

NS - Not sampled

The following notes indicate additional constituents detected in groundwater samples:

- 1 Tetrachloroethene (PCE)
- 2 Duplicate sample result was 29 µg/L of 1,1,2-TCA
- 3 Duplicate sample result was <1

APPENDIX A
EW-5d
Bldg. 90, Kernersville Facility, Kernersville, NC



APPENDIX A
Summary of VOCs Detected in EW-6D
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | Methylene Chloride | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|--------------------|---------|------------|-----------|------------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 5 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 19 Aug 1994 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20 | ND | 20.0 |
| 27 Feb 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 23 | ND | 23.0 |
| 16 Aug 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 7.9 | ND | 7.9 |
| 27 Feb 1996 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 11 | ND | 11.0 |
| 12 Aug 1996 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 7.5 | ND | 7.5 |
| 1 Oct 1996 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | ND | 1.5 |
| 29 Oct 1996 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.1 | ND | 2.1 |
| 5 Feb 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 3.9 | ND | 3.9 |
| 2 May 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 1.7 | ND | 1.7 |
| 28 May 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 1.1 | ND | 1.1 |
| 27 Aug 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 1.6 | ND | 1.6 |
| 18 Feb 1999 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 5.0 | ND | 5.0 |
| 19 Aug 1999 | <2.0 | <5.0 | <1.0 | <1.0 | <1.0 | 1.6 | ND | 1.6 |
| 26 Feb 2000 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.0 | ND | 3.0 |
| 31 Aug 2000 | <2.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.0 | ND | 3.0 |
| 13 Feb 2001 | <2.0 | <5.0 | <1.0 | <1.0 | <1.0 | 9.0 | ND | 9.0 |
| 10 Aug 2001 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 7.0 | ND | 7.0 |
| 21 Feb 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 9.0 | ND | 9.0 |
| 23 Aug 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 12 | ND | 12.0 |
| 28 Feb 2003 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 9.4 | ND | 9.4 |
| 21 Aug 2003 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 4.5 | ND | 4.5 |
| 19 Feb 2004 | <5.0 | <5.0 | <1.0 | 5.3 | <1.0 | 0.6 | ND | 5.9 |
| 24 Aug 2004 | <5.0 | <5.0 | <1.0 | 3.1 | <1.0 | <1.0 | ND | 3.1 |
| 16 Feb 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 13 | ND | 13.0 |
| 17 Aug 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 8.5 | ND | 8.5 |
| 23 Feb 2006 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.0 | ND | 3.0 |
| 15 Aug 2006 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 30 May 2008 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5.4 | ND | 5.4 |
| 18 May 2009 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2011 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2012 | 1.2 | <5.0 | <1.0 | <1.0 | <1.0 | 1.5 | ND | 2.7 |
| 7 May 2013 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 14 May 2014 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.6 | ND | 3.6 |
| 25 Mar 2015 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.4 | ND | 3.4 |
| 5 May 2016 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.0 | ND | 4.0 |

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)

b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)

All units in µg/L

NA - Not available

ND - Not detected

NS - Not sampled

APPENDIX A
Summary of VOCs Detected in EW-7D
 Bldg. 90, Kernersville Facility, Kernersville, NC

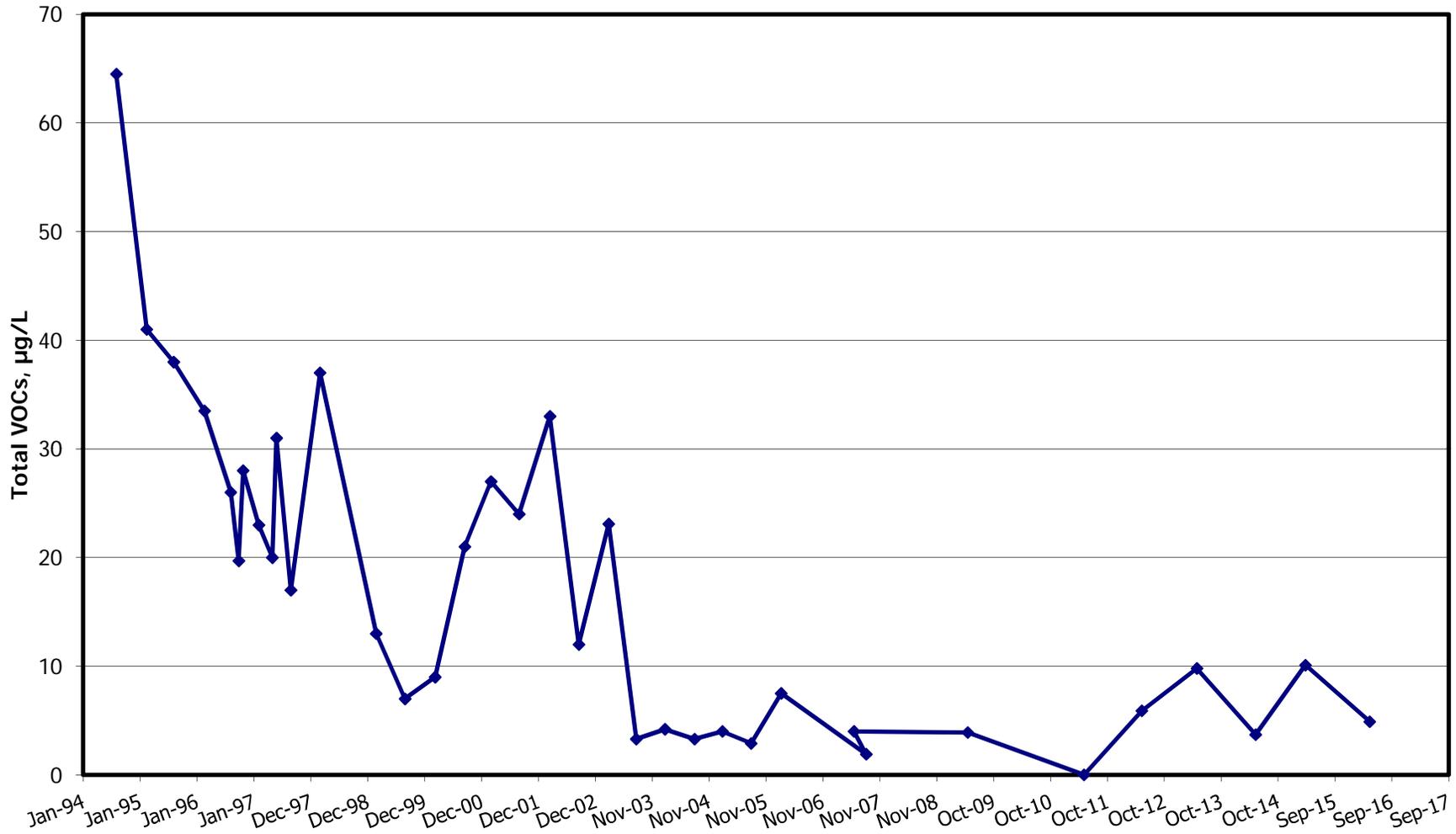
| Date | Vinyl Chloride | Methylene Chloride | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|--------------------|---------|---------|-----------|-----------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 5 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 19 Aug 1994 | 1.1 | 2.4 | 1.5 | 1.5 | <1.0 | 58 | ND | 64.5 |
| 27 Feb 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 41 | ND | 41 |
| 16 Aug 1995 | <4.0 | <8.0 | <2.0 | <2.0 | <2.0 | 38 | ND | 38 |
| 27 Feb 1996 | <2.0 | <4.0 | <1.0 | 1.5 | <1.0 | 32 | ND | 33.5 |
| 12 Aug 1996 | <4.0 | <8.0 | <2.0 | <2.0 | <2.0 | 26 | ND | 26 |
| 1 Oct 1996 | <1.0 | <1.0 | <1.0 | 1.7 | <1.0 | 18 | ND | 19.7 |
| 29 Oct 1996 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 28 | ND | 28 |
| 5 Feb 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 23 | ND | 23 |
| 2 May 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 20 | ND | 20 |
| 28 May 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 31 | ND | 31 |
| 27 Aug 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 17 | ND | 17 |
| 27 Feb 1998 | <2.0 | <4.0 | 1.0 | <1.0 | <1.0 | 36 | ND | 37 |
| 18 Feb 1999 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 13 | ND | 13 |
| 19 Aug 1999 | <1.0 | <5.0 | 1.0 | 6.0 | <1.0 | <1.0 | ND | 7.0 |
| 26 Feb 2000 | <1.0 | <5.0 | <1.0 | 9.0 | <1.0 | <1.0 | ND | 9.0 |
| 31 Aug 2000 | <2.0 | <10 | <2.0 | <2.0 | <2.0 | 21 | ND | 21 |
| 13 Feb 2001 | <2.0 | <10 | <2.0 | <2.0 | <3.0 | 27 | ND | 27 |
| 10 Aug 2001 | <1.0 | <5.0 | <1.0 | 2.0 | <1.0 | 22 | ND | 24 |
| 21 Feb 2002 | 3.0 | <5.0 | <1.0 | 4.0 | <1.0 | 24 | 2.0 | 33 |
| 23 Aug 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 12 | ND | 12 |
| 28 Feb 2003 | <1.0 | <5.0 | <1.0 | 3.6 | <1.0 | 18 | 1.5 | 23.1 |
| 21 Aug 2003 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.3 | ND | 3.3 |
| 19 Feb 2004 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 4.2 | ND | 4.2 |
| 24 Aug 2004 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.3 | ND | 3.3 |
| 16 Feb 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 4.0 | ND | 4.0 |
| 17 Aug 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.9 | ND | 2.9 |
| 23 Feb 2006 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 7.5 | ND | 7.5 |
| 15 Aug 2007 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.9 | ND | 1.9 |
| 30 May 2007 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.0 | ND | 4.0 |
| 18 May 2009 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.9 | ND | 3.9 |
| 24 May 2011 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2012 | <1.0 | <5.0 | <1.0 | 1.3 | <1.0 | 4.6 | ND | 5.9 |
| 7 May 2013 | 3.0 | <5.0 | <1.0 | 1.9 | <1.0 | 4.9 | ND | 9.8 |
| 14 May 2014 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.7 | ND | 3.7 |
| 25 Mar 2015 | 2.0 | <1.0 | <1.0 | 1.9 | <1.0 | 6.2 | ND | 10.1 |
| 5 May 2016 | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | 3.6 | ND | 4.9 |

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)
 b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)
 All units in µg/L
 NA - Not available
 ND - Not detected
 NS - Not sampled

The following notes indicate additional constituents detected in groundwater samples:

1 1,1-Dichloroethane (1,1-DCA)

APPENDIX A
EW-7d
Bldg. 90, Kernersville Facility, Kernersville, NC



APPENDIX A
Summary of VOCs Detected in MW-5D
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | Methylene Chloride | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|--------------------|---------|---------|-----------|-----------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 5 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 9 Aug 1988 | ND | ND | ND | ND | ND | 3 | ND | 3 |
| 21 Sep 1988 | ND | ND | ND | ND | ND | 5 | ND | 5 |
| 19 Oct 1988 | ND | ND | ND | ND | ND | 19 | ND | 19 |
| 7 Dec 1988 | ND | ND | ND | ND | ND | 3 | ND | 3 |
| 11 Jan 1989 | ND | ND | ND | ND | ND | 3 | ND | 3 |
| 10 Feb 1989 | ND | ND | ND | ND | ND | 6 | 1.4 | 7.4 |
| 10 Mar 1989 | ND | ND | ND | ND | ND | 4 | ND | 4 |
| 11 Apr 1989 | ND | ND | ND | ND | ND | 3.3 | ND | 3.3 |
| 16 May 1989 | ND | ND | ND | ND | ND | 4 | ND | 4 |
| 18 Aug 1989 | ND | 1 | ND | ND | ND | 3 | 1 | 5 |
| 3 Nov 1989 | ND | 1 | ND | ND | ND | 2 | ND | 3 |
| 8 Feb 1990 | ND | ND | ND | ND | ND | 4 | ND | 4 |
| 15 May 1990 | ND | 6 | ND | ND | ND | 5 | 7 | 18 |
| 12 Jul 1990 | ND | ND | ND | ND | ND | 3 | ND | 3 |
| 16 Oct 1990 | ND | ND | ND | 3 | 1 | 7 | ND | 11 |
| 16 Jan 1991 | NS | NS | NS | NS | NS | NS | NS | NS |
| 15 Apr 1991 | ND | ND | 7 | ND | ND | 7 | ND | 14 |
| 26 Jun 1991 | ND | ND | ND | 3 | 3 | 8 | ND | 14 |
| 17 Sep 1991 | ND | ND | ND | 2 | ND | 8 | ND | 10 |
| 7 Jan 1992 | ND | ND | ND | 1 | ND | ND | ND | 1 |
| 7 Apr 1992 | ND | ND | ND | 3 | 1 | 7 | ND | 11 |
| 7 Jul 1992 | ND | ND | ND | 5 | ND | 4 | ND | 9 |
| 6 Oct 1992 | 1 | ND | ND | 3 | ND | 11 | ND | 15 |
| 31 Jan 1993 | 2 | ND | ND | 3 | ND | 5 | ND | 10 |
| 5 May 1993 | ND | 2 | ND | 4 | ND | 4 | 2 | 12 |
| 24 Feb 1994 | <2 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 18 Aug 1994 | 1.5 | <1 | <1 | 9.2 | <1 | <1 | ND | 10.7 |
| 27 Feb 1995 | <2 | 1.3 | <1 | 8.8 | <1 | <1 | ND | 10.1 |
| 15 Aug 1995 | <2 | <1 | <1 | 7.6 | <1 | 2.1 | ND | 9.7 |
| 28 Feb 1996 | <2 | 1.7 | <1 | 11 | <1 | 7.8 | ND | 20.5 |
| 12 Aug 1996 | <2 | <4 | <1 | 9.8 | <1 | 2.8 | ND | 12.6 |
| 2 Oct 1996 | 2.9 | <1 | <1 | 5.2 | <1 | 9.7 | ND | 17.8 |
| 29 Oct 1996 | <1 | <1 | <1 | 9 | <1 | 4.5 | ND | 13.5 |
| 5 Feb 1997 | <2 | <1 | <1 | 10 | <1 | 2.1 | ND | 12.1 |
| 2 May 1997 | <2 | <1 | <1 | 3.7 | <1 | 24 | ND | 27.7 |
| 28 May 1997 | 2.5 | <1 | <1 | 6 | <1 | 29 | ND | 37.5 |
| 27 Aug 1997 | <2 | <1 | <1 | 4.4 | <1 | 14 | ND | 18.4 |
| 27 Feb 1998 | <2 | <1 | <1 | 6.8 | <1 | 10 | ND | 16.8 |

Monitoring location removed from SAP in 1998^c

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)

b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)

^c Well removed from SAP in 1998 due to duplicity with EW-5D (similar well depth, screened interval, constituent concentrations, and proximity). Correspondence presented as Appendix D.

All units in µg/L

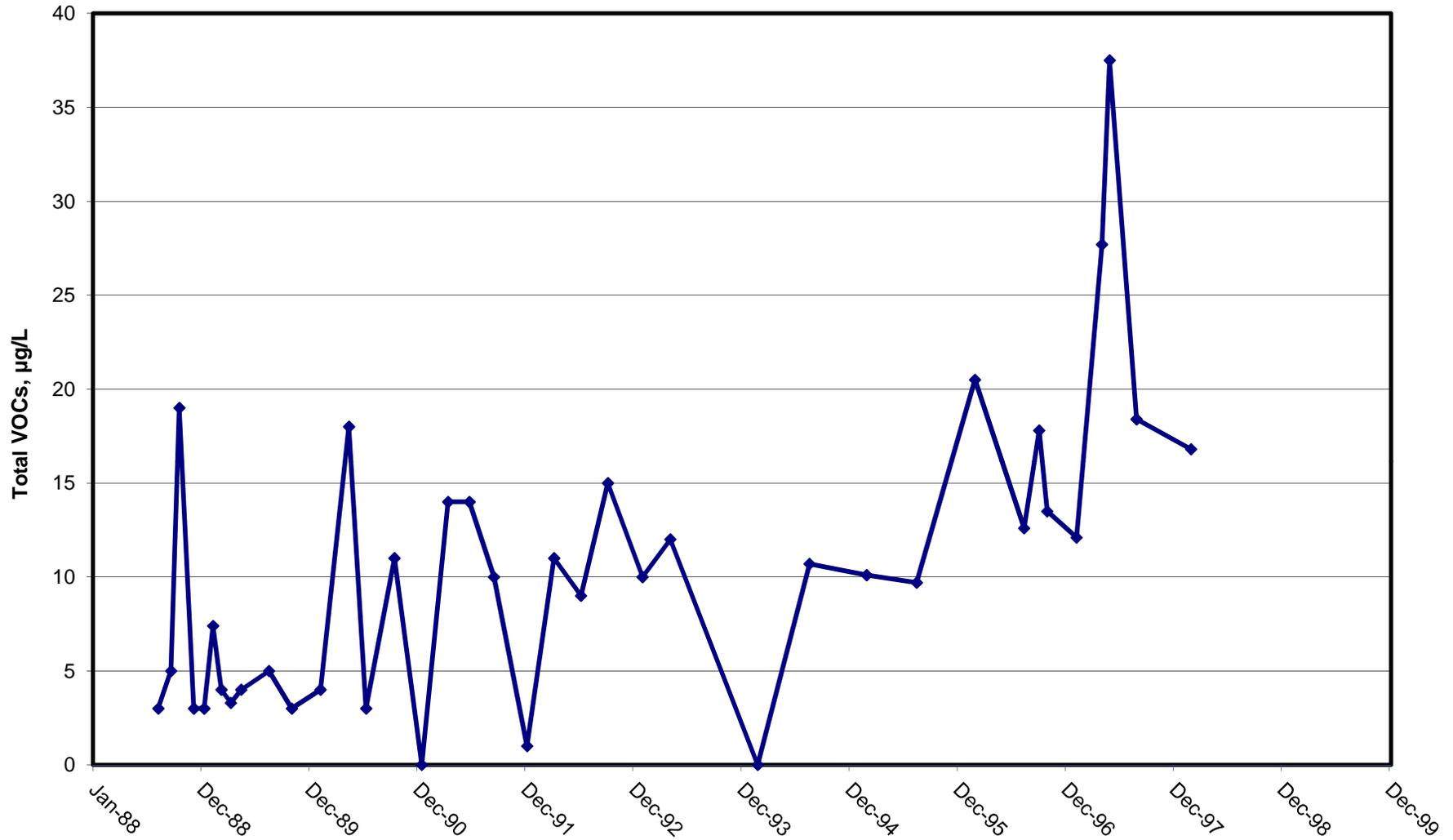
NA - Not available

ND - Not detected

NS - Not sampled

SAP - Sampling and Analysis Plan

APPENDIX A
MW-5D
Bldg. 90, Kernersville Facility, Kernersville, NC



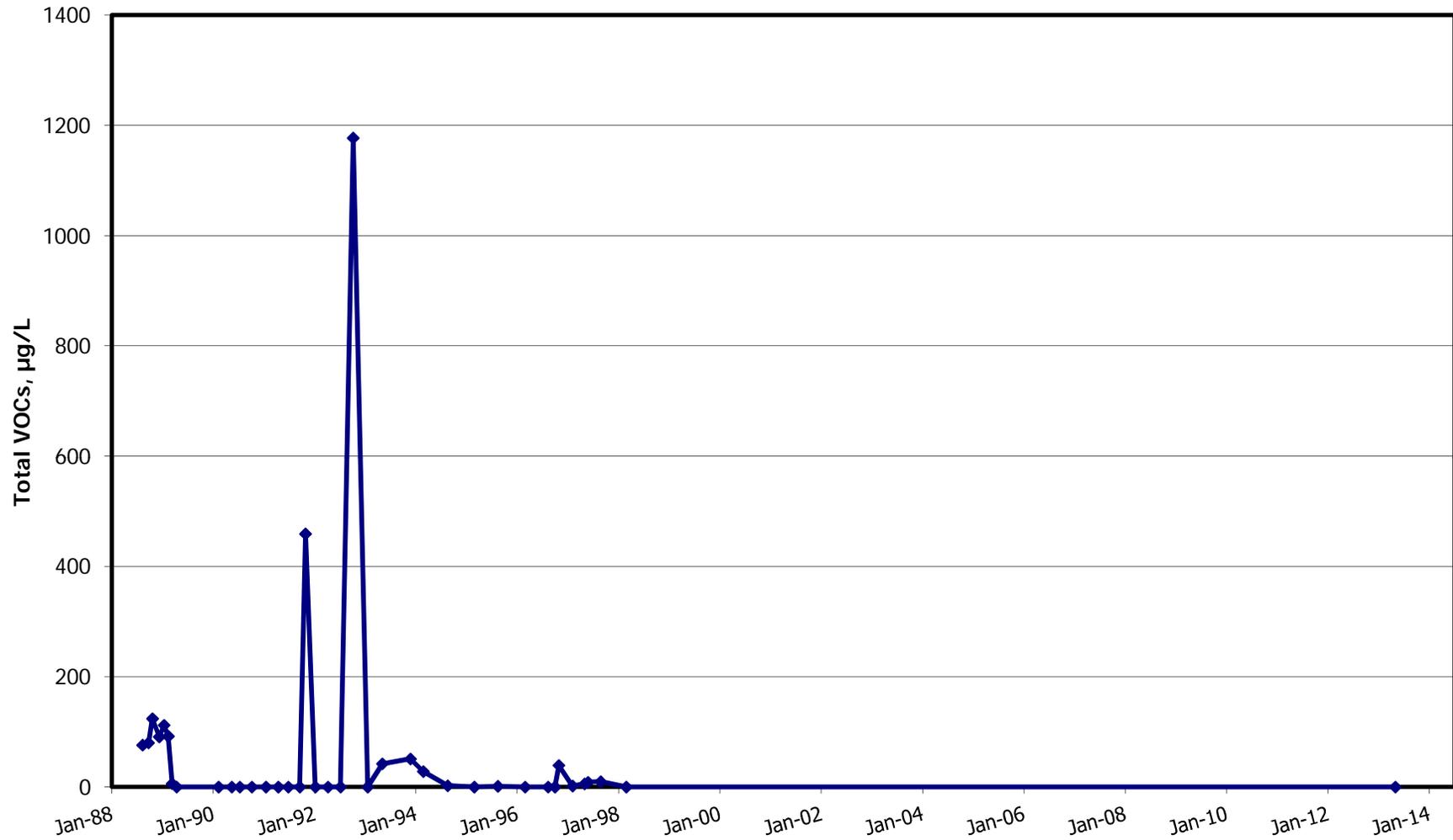
APPENDIX A
Summary of VOCs Detected in MW-6D
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | Methylene Chloride | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|--------------------|---------|---------|-----------|-----------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 5 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 9 Aug 1988 | 5 | ND | 2 | 1 | ND | 68 | ND | 76 |
| 21 Sep 1988 | ND | ND | ND | ND | ND | 80 | ND | 80 |
| 19 Oct 1988 | 4 | ND | ND | ND | ND | 120 | ND | 124 |
| 7 Dec 1988 | 6 | ND | 1 | 1 | ND | 83 | ND | 91 |
| 11 Jan 1989 | ND | ND | 1 | 1 | ND | 110 | ND | 112 |
| 10 Feb 1989 | 5.6 | 9.4 | ND | ND | ND | 77 | ND | 92 |
| 10 Mar 1989 | ND | ND | ND | ND | ND | 6 | ND | 6 |
| 11 Apr 1989 | ND | ND | ND | ND | ND | ND | ND | ND |
| 8 Feb 1990 | NS | NS | NS | NS | NS | NS | NS | NS |
| 15 May 1990 | NS | NS | NS | NS | NS | NS | NS | NS |
| 12 Jul 1990 | NS | NS | NS | NS | NS | NS | NS | NS |
| 6 Oct 1990 | NS | NS | NS | NS | NS | NS | NS | NS |
| 16 Jan 1991 | NS | NS | NS | NS | NS | NS | NS | NS |
| 15 Apr 1991 | NS | NS | NS | NS | NS | NS | NS | NS |
| 26 Jun 1991 | NS | NS | NS | NS | NS | NS | NS | NS |
| 17 Sep 1991 | NS | NS | NS | NS | NS | NS | NS | NS |
| 28 Oct 1991 | ND | 9 | ND | 10 | ND | 440 | ND | 459 |
| 7 Jan 1992 | NS | NS | NS | NS | NS | NS | NS | NS |
| 7 Apr 1992 | NS | NS | NS | NS | NS | NS | NS | NS |
| 7 Jul 1992 | NS | NS | NS | NS | NS | NS | NS | NS |
| 6 Oct 1992 | ND | ND | ND | ND | 77 | ND | 1100 | 1177 |
| 19 Jan 1993 | NS | NS | NS | NS | NS | NS | NS | NS |
| 5 May 1993 | ND | ND | ND | ND | ND | ND | 42 | 42 |
| 23 Nov 1993 | <10 | <5 | <5 | <5 | <5 | <5 | 51 | 51 |
| 24 Feb 1994 | <2 | <4 | <1 | <1 | <1 | 4.2 | 24 | 28.2 |
| 19 Aug 1994 | <1 | <1 | <1 | <1 | <1 | 2.3 | 29 | 2.3 |
| 27 Feb 1995 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 16 Aug 1995 | <2 | <4 | <1 | <1 | <1 | 1.3 | ND | 1.3 |
| 28 Feb 1996 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 12 Aug 1996 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 1 Oct 1996 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 29 Oct 1996 | <2 | 2.2 | <2 | <2 | <2 | <2 | 37 | 39.2 |
| 5 Feb 1997 | <2 | <4 | <1 | <1 | <1 | <1 | 1.7 | 1.7 |
| 2 May 1997 | <2 | <4 | <1 | <1 | <1 | <1 | 5.7 | 5.7 |
| 28 May 1997 | <2 | <4 | <1 | <1 | <1 | <1 | 8.7 | 8.7 |
| 27 Aug 1997 | <2 | <4 | <1 | <1 | <1 | <1 | 9.6 | 9.6 |
| 27 Feb 1998 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 7 May 2013 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | ND |

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)
 b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)
 All units in µg/L
 NA - Not available
 ND - Not detected
 NS - Not sampled

The following notes indicate additional constituents detected in groundwater samples:
 1 Chloroform attributed to laboratory or other contamination

APPENDIX A
MW-6d
Bldg. 90, Kernersville Facility, Kernersville, NC



APPENDIX A
Summary of VOCs Detected in MW-8
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | TCE | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|-------|---------|---------|-----------|-----------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 3 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 9 Aug 1988 | ND | ND | ND | ND | ND | 2 | ND | 2 |
| 21 Sep 1988 | ND | ND | ND | ND | ND | 1 | ND | 1 |
| 19 Oct 1988 | ND | ND | ND | ND | ND | 2 | ND | 2 |
| 7 Dec 1988 | ND | ND | ND | ND | ND | 1 | ND | 1 |
| 11 Jan 1989 | ND | ND | ND | ND | ND | 3 | ND | 3 |
| 10 Feb 1989 | ND | 1 | ND | ND | ND | 2.6 | ND | 3.6 |
| 10 Mar 1989 | ND | ND | ND | ND | ND | ND | ND | ND |
| 11 Apr 1989 | ND | ND | ND | ND | ND | ND | ND | ND |
| 16 May 1989 | ND | ND | ND | ND | ND | 1 | ND | 1 |
| 18 Aug 1989 | ND | ND | ND | ND | ND | 1 | ND | 1 |
| 2 Nov 1989 | ND | ND | ND | ND | ND | ND | ND | ND |
| 8 Feb 1990 | ND | ND | ND | ND | ND | ND | ND | ND |
| 15 May 1990 | ND | ND | ND | ND | ND | ND | ND | ND |
| 12 Jul 1990 | ND | ND | ND | ND | ND | ND | ND | ND |
| 16 Oct 1990 | ND | ND | ND | ND | 3 | ND | ND | 3 |
| 16 Jan 1991 | ND | ND | ND | ND | ND | ND | ND | ND |
| 15 Apr 1991 | ND | ND | ND | ND | ND | 1 | ND | 1 |
| 26 Jun 1991 | ND | ND | ND | ND | ND | 4 | ND | 4 |
| 17 Sep 1991 | ND | ND | ND | ND | ND | 1 | ND | 1 |
| 7 Jan 1992 | ND | ND | ND | ND | ND | ND | ND | ND |
| 7 Apr 1992 | ND | ND | ND | ND | ND | ND | ND | ND |
| 7 Jul 1992 | ND | ND | ND | ND | ND | ND | ND | ND |
| 6 Oct 1992 | ND | ND | ND | ND | ND | ND | ND | ND |
| 19 Jan 1993 | ND | ND | ND | ND | ND | ND | ND | ND |
| 5 May 1993 | ND | ND | ND | ND | ND | ND | ND | ND |
| 22 Nov 1993 | <10 | <5 | <5 | <5 | <5 | <5 | ND | ND |
| 24 Feb 1994 | <2 | 2.4 | <1 | <1 | <1 | <1 | ND | 2.4 |
| 18 Aug 1994 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 27 Feb 1995 | <2 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 16 Aug 1995 | <2 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 28 Feb 1996 | <2 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 13 Aug 1996 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 5 Feb 1997 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 27 Aug 1997 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 10 Nov 1997 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 27 Feb 1998 | <2 | <4 | <1 | <1 | <1 | <1 | ND | ND |
| 19 Aug 1999 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 31 Aug 2000 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 9 Aug 2001 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 21 Feb 2002 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 23 Aug 2002 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 21 Aug 2003 | <5 | <5 | <1 | <1 | <1 | <1 | ND | ND |
| 24 Aug 2004 | <5 | <5 | <1 | <1 | <1 | <1 | ND | ND |
| 16 Aug 2005 | <5 | <5 | <1 | <1 | <1 | <1 | ND | ND |
| 7 May 2013 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 25 Mar 2015 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |
| 5 May 2016 | <1 | <1 | <1 | <1 | <1 | <1 | ND | ND |

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)

b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)

All units in µg/L

NA - Not available

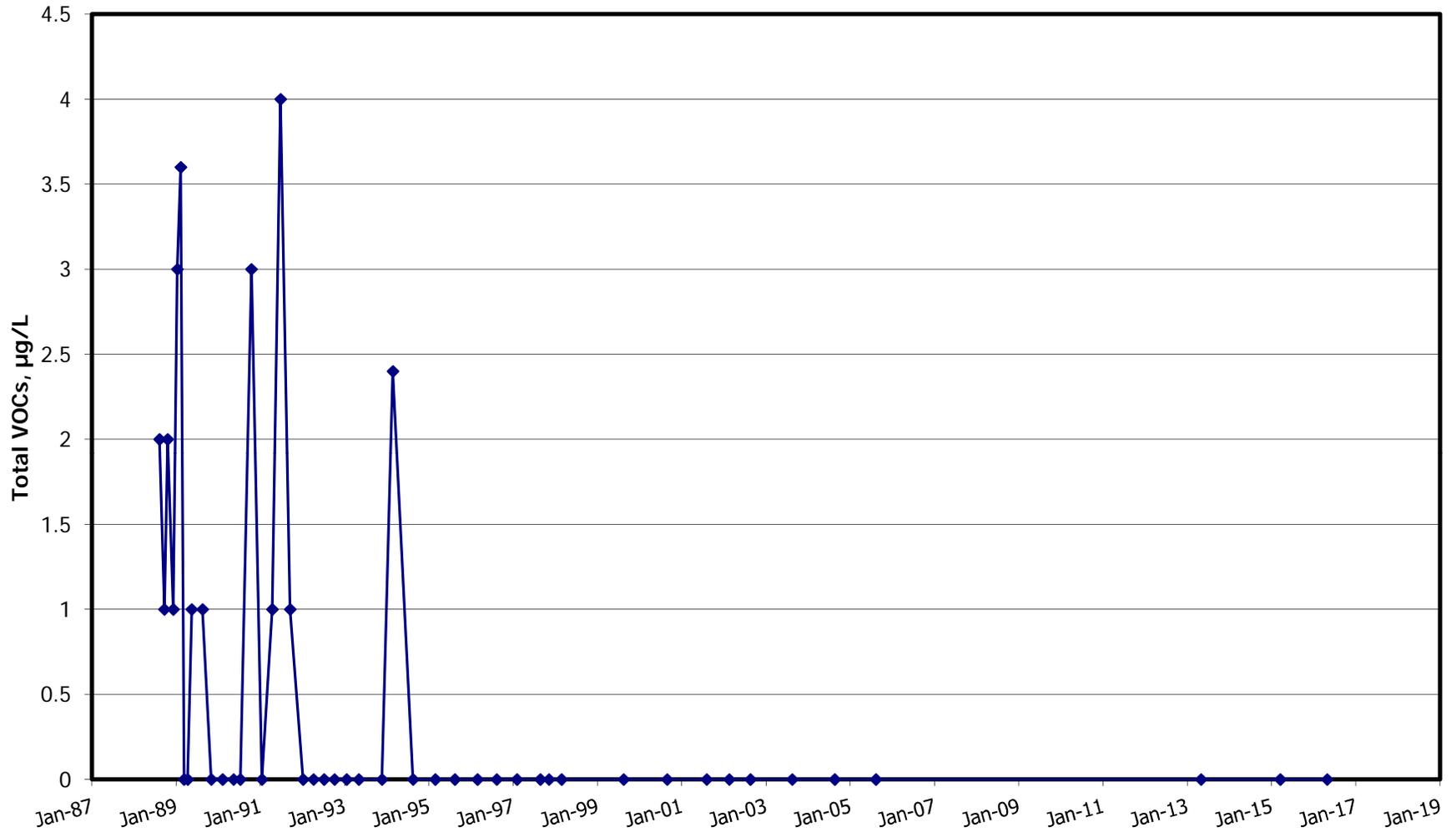
ND - Not detected

NS - Not sampled

The following notes indicate additional constituents detected in groundwater samples:

- 1 Chloroform detected but attributed to equipment decontamination procedure and not included in table

APPENDIX A
MW-8
Bldg. 90, Kernersville Facility, Kernersville, NC



APPENDIX A
Summary of VOCs Detected in MW-9
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | Methylene Chloride | 1,1-DCE | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|--------------------|---------|---------|-----------|-----------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | | | |
| | 0.03 (a) | 5 (a) | 350 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 9 Aug 1988 | ND | ND | ND | ND | ND | 6.0 | ND | 6.0 |
| 21 Sep 1988 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 19 Oct 1988 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 7 Dec 1988 | ND | ND | ND | ND | ND | ND | ND | ND |
| 11 Jan 1989 | ND | ND | ND | ND | ND | 3.0 | ND | 3.0 |
| 10 Feb 1989 | ND | ND | ND | ND | ND | 2.1 | 0.5 | 2.6 |
| 10 Mar 1989 | ND | ND | ND | ND | ND | 1.0 | ND | 1.0 |
| 11 Apr 1989 | ND | ND | ND | ND | ND | ND | ND | ND |
| 16 May 1989 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 18 Aug 1989 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 2 Nov 1989 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 8 Feb 1990 | ND | ND | 1.0 | ND | ND | 2.0 | ND | 3.0 |
| 15 May 1990 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 12 Jul 1990 | ND | 1.0 | ND | ND | ND | 3.0 | ND | 4.0 |
| 16 Oct 1990 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 16 Jan 1991 | ND | ND | ND | ND | ND | 1.0 | ND | 1.0 |
| 15 Apr 1991 | ND | ND | ND | ND | ND | 2.0 | ND | 2.0 |
| 26 Jun 1991 | ND | ND | ND | ND | ND | 4.0 | ND | 4.0 |
| 17 Sep 1991 | ND | ND | ND | ND | ND | 3.0 | ND | 3.0 |
| 7 Jan 1992 | ND | ND | ND | ND | ND | 3.0 | ND | 3.0 |
| 7 Apr 1992 | ND | ND | ND | ND | ND | 4.0 | ND | 4.0 |
| 7 Jul 1992 | ND | ND | ND | ND | ND | 4.0 | ND | 4.0 |
| 6 Oct 1992 | ND | ND | ND | ND | ND | 3.0 | 2.0 | 5.0 |
| 19 Jan 1993 | ND | ND | ND | ND | ND | 3.0 | 8.0 | 11 |
| 5 May 1993 | ND | ND | ND | ND | ND | 2.0 | 2.0 | 4.0 |
| 22 Nov 1993 | <1.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1 J | 1.0 |
| 24 Feb 1994 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 2.0 | ND | 2.0 |
| 18 Aug 1994 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.7 | 18.6 | 2.3 |
| 27 Feb 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 1.4 | ND | 1.4 |
| 16 Aug 1995 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 3.7 | ND | 3.7 |
| 28 Feb 1996 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 2.6 | ND | 2.6 |
| 13 Aug 1996 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 1.8 | ND | 1.8 |
| 6 Feb 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 3.6 | ND | 3.6 |
| 27 Aug 1997 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 3.5 | ND | 3.5 |
| 27 Feb 1998 | <2.0 | <4.0 | <1.0 | <1.0 | <1.0 | 5.3 | ND | 5.3 |
| 18 Feb 1999 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 9.0 | ND | 9.0 |
| 19 Aug 1999 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 7.0 | ND | 7.0 |
| 26 Feb 2000 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 11 | ND | 11 |
| 31 Aug 2000 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 10 | ND | 10 |
| 8 Feb 2001 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 12 | ND | 12 |
| 10 Aug 2001 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 8.0 | ND | 8.0 |
| 21 Feb 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 12 | ND | 12 |
| 23 Aug 2002 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 11 | ND | 11 |
| 28 Feb 2003 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 7.2 | ND | 7.2 |
| 21 Aug 2003 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.2 | ND | 3.2 |
| 19 Feb 2004 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.1 | ND | 2.1 |
| 24 Aug 2004 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.2 | ND | 2.2 |
| 16 Feb 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 3.2 | ND | 3.2 |
| 17 Aug 2005 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.7 | ND | 2.7 |
| 23 Feb 2006 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 2.0 | ND | 2.0 |
| 15 Aug 2007 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 30 May 2007 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | ND | 1.5 |
| 18 May 2009 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.7 | ND | 2.7 |
| 24 May 2011 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2012 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 1.5 | ND | 1.5 |
| 7 May 2013 | <1 | <5 | <1 | <1 | <1 | 1.9 | ND | 1.9 |
| 25 Mar 2015 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | ND | 1.2 |
| 5 May 2016 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)

b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)

All units in µg/L

NA - Not available

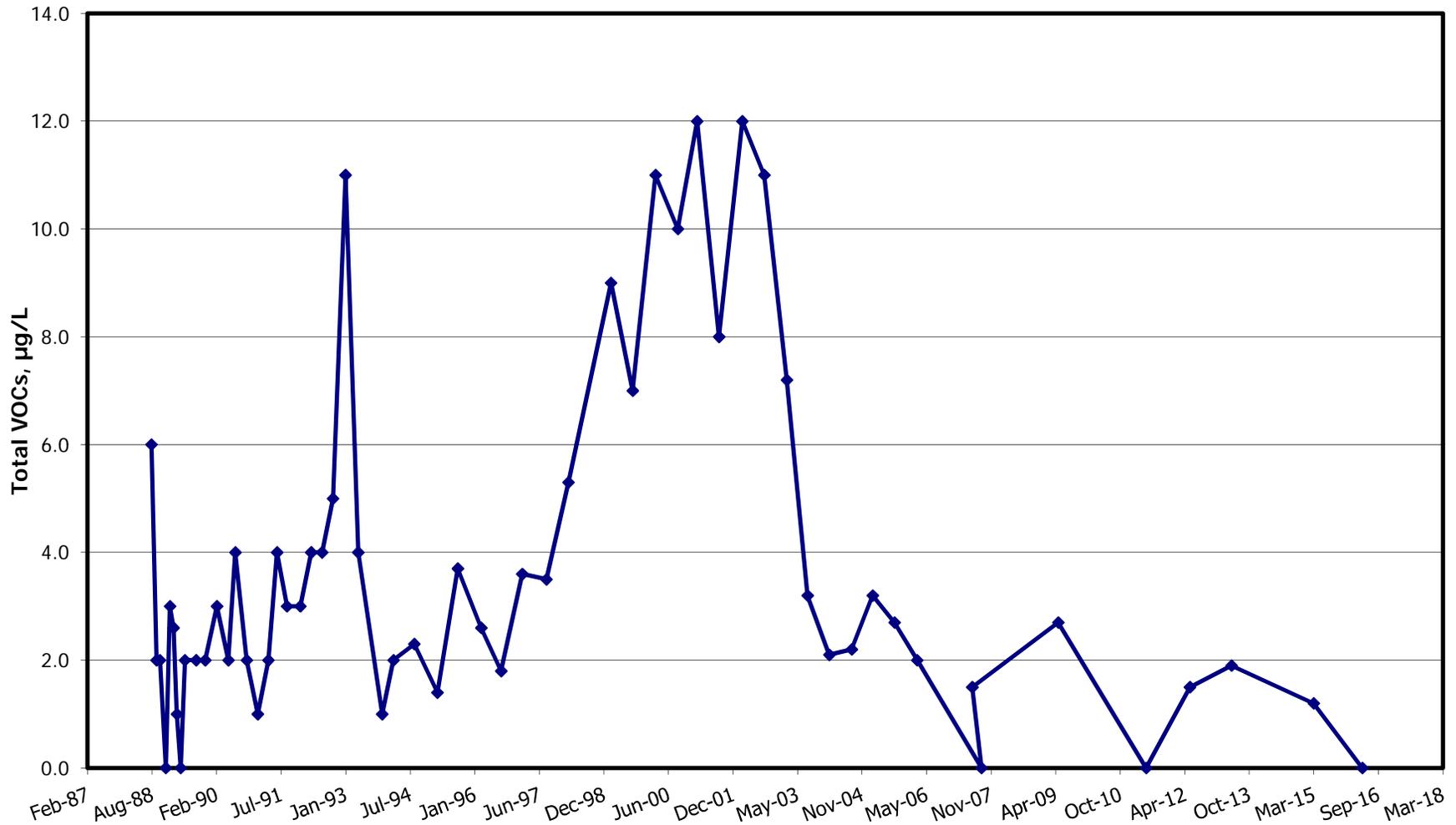
ND - Not detected

NS - Not sampled

The following notes indicate additional constituents detected in groundwater samples:

- 1 TCE
- 2 PCE
- 3 Chloroethane (3 µg/L); chloroform (5 µg/L)
- 4 Chloroform detected but attributed to equipment decontamination procedure and not included in table
- 5 Bromodichloromethane (1.6 µg/L) and chloroform (17 µg/L) attributed to equipment decontamination
- 6 Chloroform (16 µg/L) and bromodichloromethane (1.8 µg/L) attributed to equipment decontamination
- 7 Duplicate sample result 11 µg/L.

APPENDIX A
MW-9
Bldg. 90, Kernersville Facility, Kernersville, NC



APPENDIX A
Summary of VOCs Detected in MW-10
 Bldg. 90, Kernersville Facility, Kernersville, NC

| Date | Vinyl Chloride | 1,2-DCA | 1,1,1-TCA | 1,1,2-TCA | Other VOCs | Total VOCs |
|-------------|-----------------------------|---------|-----------|-----------|------------|------------|
| | Regulatory Standard (µg/L): | | | | | |
| | 0.03 (a) | 0.4 (a) | 200 (a) | 5 (b) | NA | NA |
| 25 May 2001 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 9 Aug 2001 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 21 Feb 2002 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 23 Aug 2002 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 28 Feb 2003 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 21 Aug 2003 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 19 Feb 2004 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 Aug 2004 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 16 Feb 2005 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 17 Aug 2005 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 23 Feb 2006 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 15 Aug 2007 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 30 May 2007 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 18 May 2009 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 24 May 2011 | <1.0 | <1.0 | <1.0 | <1.0 | 1.4 | 1.4 |
| 24 May 2012 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |
| 7 May 2013 | <1.0 | <1.0 | <1.0 | <1.0 | ND | ND |

[1]

a - North Carolina Administrative Code 2L.0202 Groundwater Quality Standards (April 1, 2013)

b - USEPA Maximum Containment Level (November 2011 Regional Screening Level Summary Table)

All units in µg/L

NA - Not available

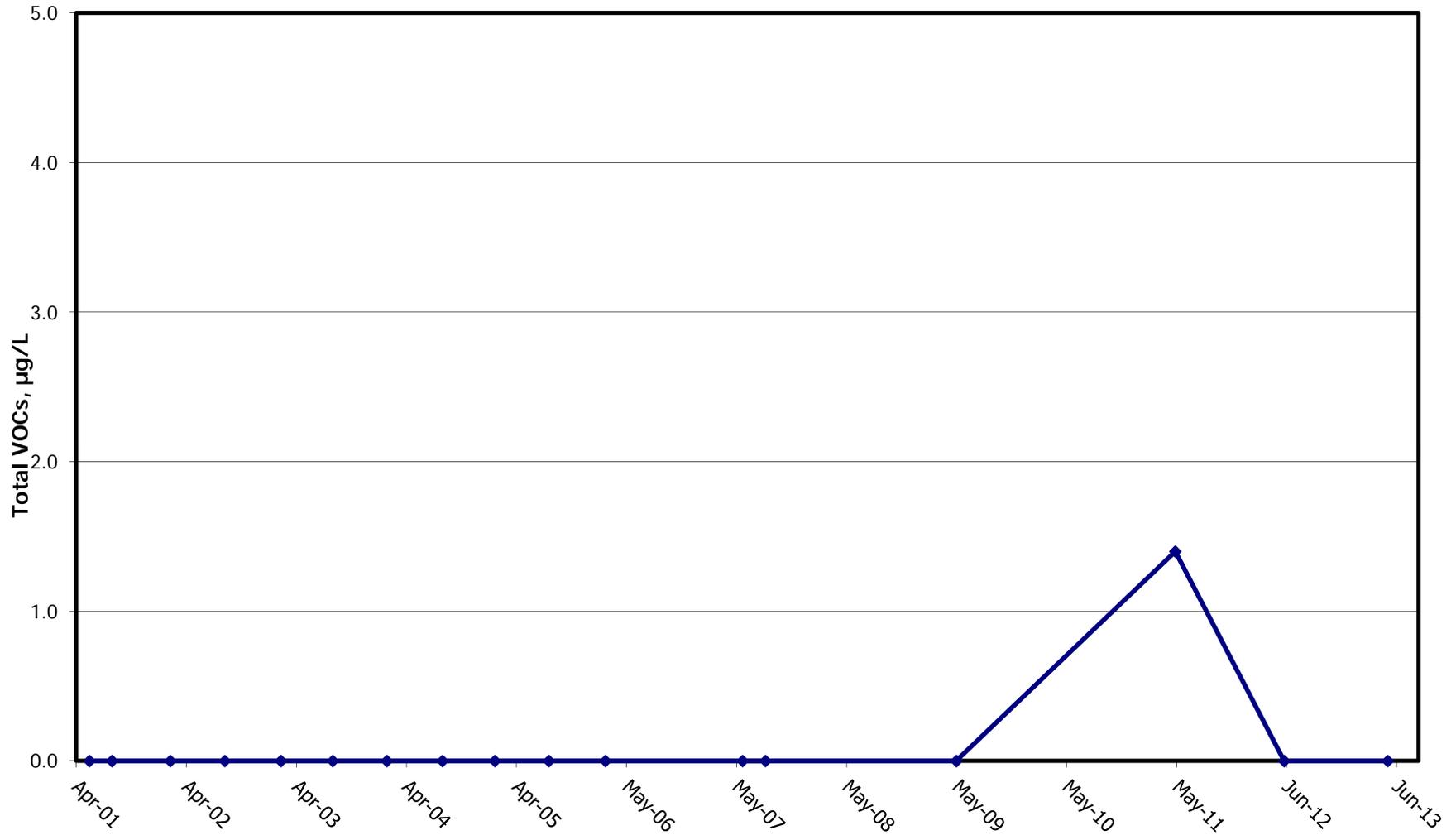
ND - Not detected

NS - Not sampled

The following notes indicate additional constituents detected in groundwater samples:

- 1 Chloroform

APPENDIX A
MW-10
Bldg. 90, Kernersville Facility, Kernersville, NC



APPENDIX B

May 2016 Laboratory Analytical Report

May 13, 2016

Christina Blaszkiewicz
HRP Associates
1327 Miller Road
Suite D
Greenville, SC 29607

RE: Project: TYCO KERNERSVILLE TYC2036 GW
Pace Project No.: 92296736

Dear Christina Blaszkiewicz:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TYCO KERNERSVILLE TYC2036 GW
Pace Project No.: 92296736

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Sample: 90-MW-8 | Lab ID: 92296736001 | Collected: 05/05/16 09:45 | Received: 05/06/16 13:30 | Matrix: Water | | | | |
|---------------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 601 Volatiles by SM 6200 | | Analytical Method: SM 6200B | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-35-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 79-00-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 79-34-5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 95-50-1 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 107-06-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 78-87-5 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 106-46-7 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-27-4 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 05/12/16 19:47 | 74-83-9 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-25-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 156-59-2 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 10061-01-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 74-87-3 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 124-48-1 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-71-8 | M1 |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 05/12/16 19:47 | 75-09-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 156-60-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 10061-02-6 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-69-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 75-01-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 05/12/16 19:47 | 106-93-4 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 05/12/16 19:47 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 05/12/16 19:47 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | 1 | | 05/12/16 19:47 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Sample: 90-MW-9 | | Lab ID: 92296736002 | | Collected: 05/05/16 11:09 | Received: 05/06/16 13:30 | Matrix: Water | | |
|---------------------------------|---------|-----------------------------|--------------|---------------------------|--------------------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 601 Volatiles by SM 6200 | | Analytical Method: SM 6200B | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-35-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 79-00-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 79-34-5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 95-50-1 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 107-06-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 78-87-5 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 106-46-7 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-27-4 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 05/12/16 20:04 | 74-83-9 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-25-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 156-59-2 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 10061-01-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 74-87-3 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 124-48-1 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-71-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 05/12/16 20:04 | 75-09-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 156-60-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 10061-02-6 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-69-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 75-01-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 05/12/16 20:04 | 106-93-4 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 05/12/16 20:04 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 05/12/16 20:04 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 05/12/16 20:04 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Sample: 90-EW-6D | | Lab ID: 92296736003 | | Collected: 05/05/16 13:58 | Received: 05/06/16 13:30 | Matrix: Water | | |
|---------------------------------|------------|-----------------------------|--------------|---------------------------|--------------------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 601 Volatiles by SM 6200 | | Analytical Method: SM 6200B | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-35-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 71-55-6 | |
| 1,1,2-Trichloroethane | 4.0 | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 79-00-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 79-34-5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 95-50-1 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 107-06-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 78-87-5 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 106-46-7 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-27-4 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 05/12/16 20:21 | 74-83-9 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-25-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 156-59-2 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 10061-01-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 74-87-3 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 124-48-1 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-71-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 05/12/16 20:21 | 75-09-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 156-60-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 10061-02-6 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-69-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 75-01-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 05/12/16 20:21 | 106-93-4 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | 1 | | 05/12/16 20:21 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 05/12/16 20:21 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | 1 | | 05/12/16 20:21 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Sample: 90-EW-5D | | Lab ID: 92296736004 | | Collected: 05/05/16 14:12 | Received: 05/06/16 13:30 | Matrix: Water | | |
|---------------------------------|---------|-----------------------------|--------------|---------------------------|--------------------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 601 Volatiles by SM 6200 | | Analytical Method: SM 6200B | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-35-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 79-00-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 79-34-5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 95-50-1 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 107-06-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 78-87-5 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 106-46-7 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-27-4 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 05/12/16 20:38 | 74-83-9 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-25-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 156-59-2 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 10061-01-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 74-87-3 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 124-48-1 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-71-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 05/12/16 20:38 | 75-09-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 156-60-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 10061-02-6 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-69-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 75-01-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 05/12/16 20:38 | 106-93-4 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 05/12/16 20:38 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 05/12/16 20:38 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 05/12/16 20:38 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Sample: 90-EW-7D | | Lab ID: 92296736005 | | Collected: 05/05/16 15:17 | Received: 05/06/16 13:30 | Matrix: Water | | |
|---------------------------------|------------|-----------------------------|--------------|---------------------------|--------------------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 601 Volatiles by SM 6200 | | Analytical Method: SM 6200B | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-35-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 71-55-6 | |
| 1,1,2-Trichloroethane | 3.6 | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 79-00-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 79-34-5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 95-50-1 | |
| 1,2-Dichloroethane | 1.3 | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 107-06-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 78-87-5 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 106-46-7 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-27-4 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 05/12/16 20:55 | 74-83-9 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-25-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 156-59-2 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 10061-01-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 74-87-3 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 124-48-1 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-71-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 05/12/16 20:55 | 75-09-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 156-60-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 10061-02-6 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-69-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 75-01-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 05/12/16 20:55 | 106-93-4 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | 1 | | 05/12/16 20:55 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 05/12/16 20:55 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 05/12/16 20:55 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Sample: TRIP BLANK | | Lab ID: 92296736006 | Collected: 05/05/16 00:00 | Received: 05/06/16 13:30 | Matrix: Water | | | |
|---------------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 601 Volatiles by SM 6200 | | Analytical Method: SM 6200B | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-34-3 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-35-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 79-00-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 79-34-5 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 95-50-1 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 107-06-2 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 78-87-5 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 106-46-7 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-27-4 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 05/12/16 21:13 | 74-83-9 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-25-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 156-59-2 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 10061-01-5 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 74-87-3 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 124-48-1 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-71-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 05/12/16 21:13 | 75-09-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 156-60-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 10061-02-6 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 127-18-4 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-69-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 75-01-4 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 05/12/16 21:13 | 106-93-4 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 05/12/16 21:13 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 70-130 | 1 | | 05/12/16 21:13 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 05/12/16 21:13 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

QC Batch: MSV/36795 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 601 by 6200B
Associated Lab Samples: 92296736001, 92296736002, 92296736003, 92296736004, 92296736005, 92296736006

METHOD BLANK: 1732730 Matrix: Water
Associated Lab Samples: 92296736001, 92296736002, 92296736003, 92296736004, 92296736005, 92296736006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Bromoform | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Bromomethane | ug/L | ND | 5.0 | 05/12/16 17:30 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Chlorobenzene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Chloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Chloroform | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Chloromethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Methylene Chloride | ug/L | ND | 2.0 | 05/12/16 17:30 | |
| Tetrachloroethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Trichloroethene | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| Vinyl chloride | ug/L | ND | 1.0 | 05/12/16 17:30 | |
| 1,2-Dichloroethane-d4 (S) | % | 100 | 70-130 | 05/12/16 17:30 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 05/12/16 17:30 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 05/12/16 17:30 | |

LABORATORY CONTROL SAMPLE: 1732731

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 55.3 | 111 | 60-140 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 54.7 | 109 | 60-140 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 53.9 | 108 | 60-140 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

LABORATORY CONTROL SAMPLE: 1732731

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethane | ug/L | 50 | 54.7 | 109 | 60-140 | |
| 1,1-Dichloroethene | ug/L | 50 | 54.8 | 110 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 56.8 | 114 | 60-140 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 52.5 | 105 | 60-140 | |
| 1,2-Dichloroethane | ug/L | 50 | 48.6 | 97 | 60-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 55.6 | 111 | 60-140 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 54.4 | 109 | 60-140 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 53.2 | 106 | 60-140 | |
| Bromodichloromethane | ug/L | 50 | 54.6 | 109 | 60-140 | |
| Bromoform | ug/L | 50 | 57.7 | 115 | 60-140 | |
| Bromomethane | ug/L | 50 | 42.6 | 85 | 60-140 | |
| Carbon tetrachloride | ug/L | 50 | 54.6 | 109 | 60-140 | |
| Chlorobenzene | ug/L | 50 | 54.1 | 108 | 60-140 | |
| Chloroethane | ug/L | 50 | 50.9 | 102 | 60-140 | |
| Chloroform | ug/L | 50 | 53.4 | 107 | 60-140 | |
| Chloromethane | ug/L | 50 | 36.5 | 73 | 60-140 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 54.9 | 110 | 60-140 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 53.2 | 106 | 60-140 | |
| Dibromochloromethane | ug/L | 50 | 58.9 | 118 | 60-140 | |
| Dichlorodifluoromethane | ug/L | 50 | 42.1 | 84 | 60-140 | |
| Methylene Chloride | ug/L | 50 | 55.6 | 111 | 60-140 | |
| Tetrachloroethene | ug/L | 50 | 52.1 | 104 | 60-140 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 53.9 | 108 | 60-140 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 53.1 | 106 | 60-140 | |
| Trichloroethene | ug/L | 50 | 51.9 | 104 | 60-140 | |
| Trichlorofluoromethane | ug/L | 50 | 51.0 | 102 | 60-140 | |
| Vinyl chloride | ug/L | 50 | 49.3 | 99 | 60-140 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 102 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1732732 1732733

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|-------------|--------|-------------|--------|----------|-----------|--------------|--------|------|
| | | Spike Conc. | Result | Spike Conc. | Result | | | | | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 20 | 24.7 | 26.0 | 124 | 130 | 60-140 | 5 |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 21.9 | 20.5 | 110 | 102 | 60-140 | 7 |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20 | 22.2 | 22.1 | 110 | 110 | 60-140 | 0 |
| 1,1-Dichloroethane | ug/L | ND | 20 | 20 | 24.5 | 25.7 | 122 | 129 | 60-140 | 5 |
| 1,1-Dichloroethene | ug/L | ND | 20 | 20 | 25.8 | 27.3 | 129 | 136 | 60-140 | 6 |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20 | 22.8 | 22.2 | 114 | 111 | 60-140 | 3 |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20 | 21.6 | 21.6 | 108 | 108 | 60-140 | 0 |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20 | 21.2 | 21.7 | 105 | 108 | 60-140 | 3 |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20 | 24.3 | 24.4 | 122 | 122 | 60-140 | 0 |
| 1,3-Dichlorobenzene | ug/L | ND | 20 | 20 | 22.5 | 22.6 | 112 | 113 | 60-140 | 1 |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TYCO KERNERSVILLE TYC2036 GW

Project No.: 92296736

| Parameter | 92296736001 | | MS | | MSD | | MS | | MSD | | % Rec | Limits | RPD | Qual |
|---------------------------|-------------|--------|-------------|-----------------|-----------|------------|-------|-------|--------|------|-------|--------|-----|------|
| | Units | Result | Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | % Rec | % Rec | | | | | | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20 | 21.5 | 22.2 | 107 | 110 | 60-140 | 3 | | | | |
| Bromodichloromethane | ug/L | ND | 20 | 20 | 22.9 | 23.4 | 114 | 117 | 60-140 | 2 | | | | |
| Bromoform | ug/L | ND | 20 | 20 | 22.2 | 20.5 | 111 | 103 | 60-140 | 8 | | | | |
| Bromomethane | ug/L | ND | 20 | 20 | 17.6 | 22.2 | 88 | 111 | 60-140 | 23 | | | | |
| Carbon tetrachloride | ug/L | ND | 20 | 20 | 24.1 | 25.7 | 121 | 128 | 60-140 | 6 | | | | |
| Chlorobenzene | ug/L | ND | 20 | 20 | 22.7 | 23.6 | 114 | 118 | 60-140 | 4 | | | | |
| Chloroethane | ug/L | ND | 20 | 20 | 25.1 | 25.5 | 125 | 128 | 60-140 | 2 | | | | |
| Chloroform | ug/L | ND | 20 | 20 | 23.9 | 24.8 | 118 | 122 | 60-140 | 4 | | | | |
| Chloromethane | ug/L | ND | 20 | 20 | 19.6 | 22.0 | 98 | 110 | 60-140 | 12 | | | | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 23.8 | 25.0 | 119 | 125 | 60-140 | 5 | | | | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 22.3 | 22.7 | 112 | 113 | 60-140 | 2 | | | | |
| Dibromochloromethane | ug/L | ND | 20 | 20 | 22.7 | 22.9 | 114 | 114 | 60-140 | 1 | | | | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 27.1 | 28.5 | 136 | 142 | 60-140 | 5 M1 | | | | |
| Methylene Chloride | ug/L | ND | 20 | 20 | 24.6 | 25.2 | 123 | 126 | 60-140 | 2 | | | | |
| Tetrachloroethene | ug/L | ND | 20 | 20 | 22.4 | 22.7 | 112 | 114 | 60-140 | 1 | | | | |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 24.2 | 25.9 | 121 | 129 | 60-140 | 7 | | | | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 21.4 | 22.0 | 107 | 110 | 60-140 | 3 | | | | |
| Trichloroethene | ug/L | ND | 20 | 20 | 23.0 | 23.9 | 112 | 116 | 60-140 | 4 | | | | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 25.2 | 26.6 | 126 | 133 | 60-140 | 6 | | | | |
| Vinyl chloride | ug/L | ND | 20 | 20 | 25.4 | 26.8 | 127 | 134 | 60-140 | 5 | | | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 105 | 103 | 70-130 | | | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 99 | 99 | 70-130 | | | | | |
| Toluene-d8 (S) | % | | | | | | 99 | 101 | 70-130 | | | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TYCO KERNERSVILLE TYC2036 GW

Pace Project No.: 92296736

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|-----------|-------------------|------------------|
| 92296736001 | 90-MW-8 | SM 6200B | MSV/36795 | | |
| 92296736002 | 90-MW-9 | SM 6200B | MSV/36795 | | |
| 92296736003 | 90-EW-6D | SM 6200B | MSV/36795 | | |
| 92296736004 | 90-EW-5D | SM 6200B | MSV/36795 | | |
| 92296736005 | 90-EW-7D | SM 6200B | MSV/36795 | | |
| 92296736006 | TRIP BLANK | SM 6200B | MSV/36795 | | |

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: HRP ASSOCIATES Project # _____

WO# : 92296736



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: IR Gun #5 SN: 15527198 _____ Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: 0.0°C Cooler Temp Corrected (°C): 3.8 Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C
 USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No
 Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

| | | COMMENTS: |
|--|--|--|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name and/or Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Filtered Volume Received for Dissolved Tests? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes Date/Time/ID/Analysis Matrix: <u>GW</u> | | |
| All containers needing acid/base preservation have been checked? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Samples checked for dechlorination | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: [Signature] Date: 5/6/19

Project Manager SRF Review: [Signature] Date: 5/7/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|--|--|---|--|---|--|
| Section A | | Section B | | Section C | |
| Required Client Information: Company: HRP Associates, Inc. Address: 1327 Miller Road Greenville, SC 29607 Email: cib@hrpassociates.com Phone: NONE Fax: <u>Standard</u> Requested Due Date: <u>5/20/16</u> | | Required Project Information: Report To: Christina Blaszkiewicz Copy To: <u>Scott Anderson</u> Purchase Order #: <u>TYC2030.GW</u> Project Name: <u>Tyco Myer Lee (Building 109)</u> Project #: <u>TYC2030.GW</u> | | Invoice Information: Attention: <u>CAROL SANDANILIS</u> Company Name: <u>HRP Associates</u> Address: <u>177 Scott Swamp Rd., Farmington CT</u> Pace Quote: Pace Project Manager: <u>aylor.ezell@pacelabs.com</u> Pace Profile #: <u>6997-1</u> | |
| Regulatory Agency | | State / Location | | Page: 1 Of 1 | |

| ITEM # | MATRIX | CODE | COLLECTED | | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see valid codes to left) | # OF CONTAINERS | PRESERVATIVES | | | | | | | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |
|--------|------------|------|------------|------------|-----------------------------|---------------------------------------|-----------------|---------------|----------|-------------|-------|------|-----|------|---------------|-----|-----------------------------------|-------------------------|
| | | | START DATE | START TIME | | | | END DATE | END TIME | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | | | | |
| 1 | MW-2 | DW | 5-4-16 | 1620 | G | GW | 4 | | | | | | | | | X | | |
| 2 | MW-5 | WW | 5-4-16 | 1500 | G | GW | 4 | | | | | | | | | X | | |
| 3 | MW-6 | SL | 5-4-16 | 1425 | G | GW | 4 | | | | | | | | | X | | |
| 4 | Trip Blank | OT | 5-4-16 | - | WT | WT | 2 | | | | | | | | | X | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|--------|------|---------------------------|--------|-------|-------------------|
| | Christina Blaszkiewicz / HRP | 5-6-16 | 1100 | Christina Blaszkiewicz | 5-6-16 | 13:30 | |
| | Christina Blaszkiewicz | 5-6-16 | 1100 | Bill Meyer | 5-6-16 | 1510 | Y W Y |
| | Christina Blaszkiewicz | 5-6-16 | 1100 | Bill Meyer | 5-6-16 | 1510 | Y W Y |

| | |
|---|---------------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: Christina Blaszkiewicz | DATE Signed: 5-6-16 |
| SIGNATURE of SAMPLER: <i>[Signature]</i> | |

APPENDIX C

Field Data Sheets

Tyco Electronics, Kernersville, NC (Building 90)

Water Level Log - May 2016

Date: 5/5/16

Analyst: MP/CB

| Well ID | DTW | | Total Depth | NOTES: |
|---------|-----------------------|------|-------------|--------|
| | 1/10 ft | Time | | |
| EW-1 | Abandoned 2012 | | | |
| EW-2 | Abandoned 2012 | | | |
| EW-5d | 7.41 | | 76 | |
| EW-6d | 11.78 | | 76 | |
| EW-7d | 9.21 | | 51 | |
| MW-2 | Abandoned 2012 | | | |
| MW-3 | Abandoned 2012 | | | |
| MW-4 | Unable to Locate 2013 | | 21.5 | |
| MW-5d | | | 72 | |
| MW-6d | 12.69 | | 74 | |
| MW-7d | Unable to Locate 2013 | | 52 | |
| MW-8 | 10.65 | | 58 | |
| MW-9 | 23.91 | | 39 | |
| MW-10 | 10.60 | | 32.5 | |

NOTES:

- Collect water levels at all wells.
- Collect water levels from top of PVC casing
- 1.47' of casing was added to EW-6d
- MW-5d, could not get water level due to pouring rain, water was standing on top of well

Meter Calibration Sheet

HRP Job #: TIC2030 GW
 Description: Kernersville 2016
 Location: Kernersville NC

pH (standard units)

Date: 5-5-16 Analyst: _____
 Time: 0800 Meter Serial No: _____

Meter: _____ Model #: _____

| Actual pH | Lot Number | Expiration Date | Measured (SU)* | Mid-Day Reading (7.0) | End of Day Reading (7.0) |
|-----------|------------|-----------------|----------------|-----------------------|--------------------------|
| 4.00 | 5GJ661 | Oct-17 | 4.03 | | |
| 7.00 | 5GI488 | Sep-17 | 7.03 | | |
| 10.00 | 5GI740 | Sep-17 | 10.10 | | |
| 7.00** | 5GI488 | Sep-17 | 7.07 | | |

* Only report pH units to 0.1
 *pH reading must be within ± 0.1 standard units
 ** - QC check for pH reading must be within ± 0.1 standard units

Comments: _____

Conductivity (uS/cm)

Date: 5-5-16 Analyst: _____
 Time: 0800 Meter Serial No: _____

Meter: _____ Model: _____

| Actual Conductivity (uS/cm) | Lot Number | Expiration Date | Measured |
|-----------------------------|------------|-----------------|----------|
| 84 | 5GF943 | Jun-16 | 81.6 |
| 1413 | 5GH718 | Aug-16 | 1412 |
| 447 (Verification only) | 5GH664 | Aug-16 | 448 |

*Conductivity reading must be within $\pm 10\%$

Comments: _____

Turbidity (NTU)

Date: 5-5-16 Analyst: _____
 Time: 0800 Meter Serial No: _____

Meter: _____ Model: _____

| Actual Turbidity (NTU) | Lot Number | Expiration Date | Measured | Mid-Day Reading (7.0) | End of Day Reading (7.0) |
|------------------------|------------|-----------------|----------|-----------------------|--------------------------|
| 1000 | 40703 | Jul-16 | 995.2 | | |
| 10.0 | 40763 | Jul-16 | 10.03 | | |
| 0.02 | 40701 | Jul-16 | 0.02 | | |

*Turbidity reading must be within $\pm 10\%$

Comments: _____

HRP Associates, Inc.
1327 Miller Road
Greenville, SC 29607

Field Data Sheet

Date: 5/5/16 Well ID: EW-5d
Analyst (s): MPICB Client: TYCO
Location: KERNERSVILLE, NC

Purge Method (circle):
Whale Pump
Grundfos Pump
Bailer: Teflon
PVC
Bladder Pump
Peristaltic Pump
Other: _____

Well Diameter (in): 4
Casing Material: PVC / Steel
Depth to Water (TOC): 7.41 @ 12:40
Depth to Immiscible Layer: -
Total Depth: 76
Length of Water Column: 68.59
Well Volume (gal): 46.5
0.75" = 0.023 1" = 0.041 2" = 0.163
4" = 0.678 6" = 1.47 8" = 2.611

Well Locked: Yes / No _____
Well Condition: _____
Well Pad: _____
pH Meter No: _____
Conductivity Meter No: _____
Comments: _____
Weather: RAIN, 50°

| Parameters | Initial | 1 | DUP** | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------------------|---------|-------|----------------|-------|-------|--------|--------|---|---|
| Time* | 1300 | 1317 | 1318 | 1330 | 1345 | 1356 | 1412 | | |
| Volume Purged (gal/ml) | 0 | 2.5 | 2.5 | 5 | 7.5 | 10 | 12.5 | | |
| pH (su) | 6.09 | 6.25 | 6.25 | 6.23 | 6.09 | 6.10 | 6.08 | | |
| Conductivity (uS/cm) | 112.1 | 128.7 | 128 | 125.8 | 123.4 | 121.2 | 112.4 | | |
| Temperature (°C) | 14.1 | 14.2 | 14.3 | 14.3 | 14.2 | 14.1 | 13.9 | | |
| Turbidity (ntu / Subj*) | 59.14 | 10.73 | | 9.15 | 6.60 | 5.83 | 3.92 | | |
| ORP (mV) | - | - | - | - | - | - | - | | |
| DO (mg/L) | 1.65 | 1.59 | 1.23 | 1.23 | 1.17 | 1.38 | 1.18 | | |
| Odor (Subj*) | None | None | None | None | None | Slight | Slight | | |
| Water Level | | | | | | | | | |

Subj* - 1 - Clear/Low 2 - Slightly Turbid / Low-moderate 3 - Turbid / Moderate 4 - Highly Turbid / Heavy

* All well stabilization parameters were analyzed at the time of sample collection.

** One (1) duplicate pH measurement will be taken once per day, or once per twenty (20) samples.

Notes: _____

* Well volume = Length of water column X corresponding well diameter coefficient (i.e. 2" = 0.163)

Sample Collection Time: 1412

HRP Associates, Inc.
1327 Miller Road
Greenville, SC 29607

Field Data Sheet

Date: 5/15/16 Well ID: EW-6d
Analyst (s): MLCB Client: TYCO
Location: KENNESVILLE, NC

Purge Method (circle):
Whale Pump
Grundfos Pump
Bailer: Teflon
PVC
Bladder Pump
Peristaltic Pump
Other: Pyphnon S-S.

Well Diameter (in): 4
Casing Material: PVC/Steel
Depth to Water (TOC): 11.78 @ 12:45
Depth to Immiscible Layer: -
Total Depth: 76
Length of Water Column: 64.22
Well Volume (gal): 43.5
0.75" = 0.023 1" = 0.041 2" = 0.163
4" = 0.678 6" = 1.47 8" = 2.611

Well Locked: (Yes/No)
Well Condition: GOOD
Well Pad: GOOD
pH Meter No: _____
Conductivity Meter No: _____
Comments: _____
Weather: RAIN 50°

| Parameters | Initial | 1 | DUP** | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|-------|---|
| Time* | 13:10 | 13:17 | | 13:25 | 13:34 | 13:43 | 13:50 | 13:58 | |
| Volume Purged (gal/ml) | 0 | 10 | | 20 | 30 | 40 | 50 | 60 | |
| pH (su) | 6.39 | 6.52 | 6.51 | 6.49 | 5.91 | 5.70 | 5.70 | 5.62 | |
| Conductivity (uS/cm) | 215 | 215 | | 168.6 | 83.5 | 67.2 | 64.2 | 58.3 | |
| Temperature (°C) | 14.4 | 14.6 | | 14.1 | 14.6 | 14.2 | 14.7 | 14.9 | |
| Turbidity (ntu / Subj*) | 154.6 | 120.8 | | 70.68 | 28.24 | 17.63 | 14.86 | 9.71 | |
| ORP (mV) | - | - | | - | - | - | - | - | |
| DO (mg/L) | 3.00 | 3.60 | | 2.14 | 2.61 | 2.70 | 2.59 | 2.87 | |
| Odor (Subj*) | none | none | | none | none | none | None | None | |
| Water Level | 11.78 | 20.70 | | 20.80 | 20.50 | 20.42 | 20.37 | 20.35 | |

Subj* - 1 - Clear/Low 2- Slightly Turbid / Low-moderate 3 - Turbid / Moderate 4 - Highly Turbid / Heavy

* All well stabilization parameters were analyzed at the time of sample collection.

** One (1) duplicate pH measurement will be taken once per day, or once per twenty (20) samples.

Notes: _____

* Well volume = Length of water column X corresponding well diameter coefficient (i.e. 2" = 0.163)

Sample Collection Time: 13:58

HRP Associates, Inc.
1327 Miller Road
Greenville, SC 29607

Field Data Sheet

Date: 5/5/16 Well ID: EW-7d
 Analyst (s): MP/CB Client: TYCO
 Location: KERNERSVILLE, NC

Purge Method (circle):
 Whale Pump
 Grundfos Pump
 Bailer: Teflon
 PVC
 Bladder Pump
 Peristaltic Pump
 Other: Typhoon S.S.

Well Diameter (in): 4"
 Casing Material: PVC / Steel
 Depth to Water (TOC): 9.21 @ 14:30
 Depth to Immiscible Layer: —
 Total Depth: 51
 Length of Water Column: 41.79
 Well Volume (gal): 28.3
 0.75" = 0.023 1" = 0.041 2" = 0.163
 4" = 0.678 6" = 1.47 8" = 2.611

Well Locked: Yes / No (No)
 Well Condition: VAULT
 Well Pad: VAULT
 pH Meter No: _____
 Conductivity Meter No: _____
 Comments: _____
 Weather: RAIN, 50°

| Parameters | Initial | 1 | DUP** | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------------------|---------|------|-------|-------|------|------|-------|---|---|
| Time* | 14:38 | 1447 | | 14:55 | 1502 | 1512 | 1517 | | |
| Volume Purged (gal/ml) | 0 | 10 | | 20 | 30 | 40 | 50 | | |
| pH (su) | 5.95 | 5.66 | 5.65 | 5.59 | 5.53 | 5.51 | 5.49 | | |
| Conductivity (uS/cm) | 85.1 | 88.7 | | 87.1 | 85.9 | 84.3 | 84.5 | | |
| Temperature (°C) | 14.0 | 14.0 | | 14.4 | 14.3 | 14.4 | 13.8 | | |
| Turbidity (ntu / Subj*) | 10.52 | 7.48 | | 5.21 | 3.93 | 4.40 | 10.27 | | |
| ORP (mV) | — | — | | — | — | — | — | | |
| DO (mg/L) | 0.26 | 0.71 | | 1.18 | 1.04 | 0.76 | 1.10 | | |
| Odor (Subj*) | none | None | | none | None | None | None | | |
| Water Level | | | | | | | | | |

Subj* - 1 - Clear/Low 2- Slightly Turbid / Low-moderate 3 - Turbid / Moderate 4 - Highly Turbid / Heavy
 * All well stabilization parameters were analyzed at the time of sample collection.
 ** One (1) duplicate pH measurement will be taken once per day, or once per twenty (20) samples.

Notes: _____

* Well volume = Length of water column X corresponding well diameter coefficient (i.e. 2" = 0.163)

Sample Collection Time: 1517

HRP Associates, Inc.
1327 Miller Road
Greenville, SC 29607

Field Data Sheet

Date: 5/5/16 Well ID: MW-8
Analyst (s): MP/CB Client: TYCO
Location: Kernsville, NC

Purge Method (circle):
Whale Pump
Grundfos Pump
Bailer: Teflon
PVC
Bladder Pump
Peristaltic Pump
Other: Typhoon S.S.

Well Diameter (in): 4
Casing Material: PVC / Steel
Depth to Water (TOC): 16.65 @ 8:35
Depth to Immiscible Layer: -
Total Depth: 41.71
Length of Water Column: 25.06
Well Volume (gal): 17
0.75" = 0.023 1" = 0.041 2" = 0.163
4" = 0.678 6" = 1.47 8" = 2.611

Well Locked: Yes / No
Well Condition: GOOD
Well Pad: 6000
pH Meter No: _____
Conductivity Meter No: _____
Comments: _____
Weather: Rain, 50°

| Parameters | Initial | 1 | DUP** | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------------------|---------|-------|-------|-------|-------|---|---|---|---|
| Time* | 8:44 | 9:04 | | 9:30 | 0945 | | | | |
| Volume Purged (gal/ml) | 0 | 10 | | 18 | 18.5 | | | | |
| pH (su) | 6.10 | 6.44 | 6.44 | 6.53 | 6.27 | | | | |
| Conductivity (uS/cm) | 179.2 | 172.2 | | 153.7 | 128.1 | | | | |
| Temperature (°C) | 13.8 | 14.6 | | 15.7 | 15.5 | | | | |
| Turbidity (ntu / Subj*) | 72.89 | 81.96 | | 44.57 | 36.57 | | | | |
| ORP (mV) | - | - | | - | - | | | | |
| DO (mg/L) | 2.17 | 2.85 | | 3.10 | 3.66 | | | | |
| Odor (Subj*) | none | none | | none | None | | | | |
| Water Level | 16.65 | | | | | | | | |

Subj* - 1 - Clear/Low 2 - Slightly Turbid / Low-moderate 3 - Turbid / Moderate 4 - Highly Turbid / Heavy

* All well stabilization parameters were analyzed at the time of sample collection.

** One (1) duplicate pH measurement will be taken once per day, or once per twenty (20) samples.

Notes: Dry @ 18 gallons, 9:30, allowing to recharge then will collect sample

* Well volume = Length of water column X corresponding well diameter coefficient (i.e. 2" = 0.163)

Sample Collection Time: 0945

HRP Associates, Inc.
1327 Miller Road
Greenville, SC 29607

Field Data Sheet

Date: 5/5/16 Well ID: MW-9
Analyst (s): MP/CB Client: TYCO
Location: KORNERVILLE, NC

Purge Method (circle):
Whale Pump
Grundfos Pump
Bailer: Teflon
PVC
Bladder Pump
Peristaltic Pump
Other: Typhoon S.S.

Well Diameter (in): 4"
Casing Material: PVC / Steel
Depth to Water (TOC): 23.91 @ 10.05
Depth to Immiscible Layer: -
Total Depth: 39
Length of Water Column: 15.09
Well Volume (gal): 10.2
0.75" = 0.023 1" = 0.041 2" = 0.163
4" = 0.678 6" = 1.47 8" = 2.611

Well Locked: Yes / No
Well Condition: Good
Well Pad: Good
pH Meter No:
Conductivity Meter No:
Comments:
Weather: Rain, 50°

| Parameters | Initial | 1 | DUP** | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------------------|---------|-------|-------|-------|--------------------|---|---|---|---|
| Time* | 10:10 | 10:28 | | 10:48 | 11:09 | | | | |
| Volume Purged (gal/ml) | 0 | 10 | | 20 | 29 | | | | |
| pH (su) | 5.36 | 5.29 | 5.28 | 5.34 | 5.28 | | | | |
| Conductivity (uS/cm) | 66.4 | 65.5 | | 64.3 | 65.6 | | | | |
| Temperature (°C) | 15.2 | 15.9 | | 16.4 | 16.5 | | | | |
| Turbidity (ntu / Subj*) | 373.5 | 17.43 | | 4.93 | 7.9 7.9 | | | | |
| ORP (mV) | - | - | | - | - | | | | |
| DO (mg/L) | 4.85 | 5.32 | | 5.15 | 5.39 | | | | |
| Odor (Subj*) | none | none | | none | None | | | | |
| Water Level | 23.91 | | | | | | | | |

Subj* - 1 - Clear/Low 2- Slightly Turbid / Low-moderate 3 - Turbid / Moderate 4 - Highly Turbid / Heavy
* All well stabilization parameters were analyzed at the time of sample collection.
** One (1) duplicate pH measurement will be taken once per day, or once per twenty (20) samples.

Notes: Dry @ 29 gallons, 11:05

* Well volume = Length of water column X corresponding well diameter coefficient (i.e. 2" = 0.163)

Sample Collection Time: 11:09

APPENDIX D

1998 Monitoring Well Network Correspondence

AMP Incorporated
P.O. Box 3608
Harrisburg, PA
17105-3608
USA

Phone: 717-564-0100
www.amp.com

Glen L. Foster
Mail Stop 21-20
Phone: 717-810-3858
Fax: 717-810-3888
glfoster@amp.com



May 12, 1998

Mr. Larry D. Coble
Winston-Salem Regional Supervisor
North Carolina Department of Environment and Natural Resources
585 Waightown Street
Winston-Salem, NC 27107-2241

RECEIVED
MAY 18 1998
HARDING LAWSON ASSOCIATES

Re: Proposed Monitoring Network and Schedule under 2L Regulations
Renewal of Permit No. WQ0000831
AMP Incorporated Building No. 90
Kernersville, North Carolina
Incident No. 5956

Dear Mr. Coble:

In conjunction with the recent reissuance of Groundwater Remediation Permit WQ0000831 for the referenced site, AMP Incorporated (AMP), based on recommendations from our environmental consultant, Harding Lawson Associates, proposes the monitoring strategy below for the Kernersville site. This proposal is intended to address the requirements of Section III.1 of the permit.

- Semi-Annual Sampling (January and July): EW-1, EW-5d, EW-6d, EW-7d, MW-4, and MW-9;
- Annually (July): MW-3 and MW-8.

The groundwater samples will be analyzed for Volatile Organic Compounds (VOCs) by EPA Method 601. At the time of sampling, water levels in all site wells will be measured and recorded.

Please note the following about the proposed monitoring schedule:

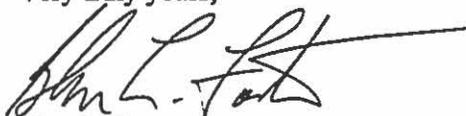
- The monitor wells to be sampled annually, MW-3 and MW-8, have been free of contaminants since at least 1994.
- Of the existing wells at the site, EW-2, MW-2, MW-5d, MW-6d, and MW-7d have been excluded from the monitoring network. EW-2 has historically contained low levels of VOCs (<6.1 ug/l since 1992) and is located on the fringe of the plume. MW-2 is significantly upgradient of the current plume and has not historically been included in the monitoring program. Data from wells MW-5d, MW-6d, and MW-7d duplicate that from nearby wells EW-5d, EW-6d, and EW-7d.

Mr. Larry Coble
May 12, 1998
Page 2

A table comparing the proposed monitoring network with the network outlined in the existing Groundwater Remediation Permit is attached.

Please contact me with any questions or comments you may have concerning this information. As always, AMP appreciates your assistance with our groundwater remediation sites.

Very truly yours,



Glen L. Foster
Project Manager

Attachment

cc: Jan Smith, Harding Lawson Associates

**AMP Incorporated
 Kernersville - Building 90
 Proposed Monitoring Schedule**

| Well | Frequency of Monitoring in Current Permit | Proposed Frequency of Monitoring | Comments |
|-------|---|----------------------------------|---|
| EW-1 | NL | Semi-annual | Well aids in defining northeastern (upgradient) plume boundary. |
| EW-2 | NL | NL | Well has contained 6.1 ug/L or less since 1992 and lies on the fringe of the plume. |
| EW-5d | NL | Semi-annual | Active recovery well recently brought on line and center of current plume. |
| EW-6d | NL | Semi-annual | Well aids in defining southern plume boundary. |
| EW-7d | NL | Semi-annual | Former active recovery well and former center of plume; aids in defining southeastern plume boundary. |
| MW-2 | NL | NL | Well is significantly upgradient of site based on documented groundwater flow patterns. |
| MW-3 | Semi-annual | Annual | Sidegradient well which has been non-detect since 1992. |
| MS-4 | Semi-annual | Semi-annual | Sidegradient well which will aid in determining impact from recently-activated EW-5d. |
| MS-5s | Semi-annual | NL | Well abandoned in November 1994 with DENR approval. |
| MS-5d | Semi-annual | NL | Well duplicates information provided by EW-5d. |
| MS-6s | Semi-annual | NL | Well abandoned in November 1994 with DENR approval. |
| MS-6d | Semi-annual | NL | Well duplicates information provided by EW-6d. |
| MW-7s | Semi-annual | NL | Well abandoned in November 1994 with DENR approval. |
| MW-7d | Semi-annual | NL | Well duplicates information provided by EW-7d. |
| MW-8 | Semi-annual | Annual | Sidegradient well which has been non-detect since 1994. |
| MW-9 | Semi-annual | Semi-annual | Most downgradient well; aids in defining plume extent. |

NL: Not listed in monitoring schedule

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
WINSTON-SALEM REGIONAL OFFICE
DIVISION OF WATER QUALITY
GROUNDWATER SECTION

18 June 1998

CERTIFIED MAIL NUMBER: P-536 305 157
RETURN RECEIPT REQUESTED

RECEIVED
JUN 25 1998

HARDING LAWSON ASSOCIATES

Mr. Glen L. Foster
Project Manager
Global Environmental Health & Safety
AMP Incorporated
M.S. 021-020
P.O. Box 3608
Harrisburg, PA 17105-3608

SUBJECT: Revised Groundwater Monitoring Strategy at AMP Inc. Bldg. 90; 375 W. Bodenhamer St., Kernersville, Forsyth County; Groundwater Incident No. 5956; Groundwater Incident Ranking 095/E; Permits WQ0000831/GW97189

Dear Mr. Foster;

To streamline the permitting process, the Groundwater Section's Permits and Compliance Unit has requested the Regional Offices to remove all monitoring requirements (except those that monitor treatment system effluent) from Non-Discharge Permits. The Groundwater Section will now prescribe these "plume-tracking" requirements in a letter format, which will increase the efficiency and decrease the cost of requesting changes in sampling schedules. Per your letter and supporting documentation dated 12 May 1998, the following monitoring requirements will be in effect at the subject site:

Wells EW-1, EW-5d, EW-6d, EW-7d, MW-4 and MW-9 shall be sampled semiannually every February and August. Wells MW-3 and MW-8 shall be sampled annually every August. All samples shall be analyzed for volatiles by EPA Method 601. The results shall be reported to the Winston-Salem Regional Office every March and September.

Water levels shall also be measured and reported for each of the above wells (and others as necessary). Water levels must be measured before sampling for the remaining parameters. The depth to water in each well shall be measured from the surveyed point on the top of the casing.

In the event that Non-Discharge Permit No. WQ0000831 (dated 3 March 1998) is rescinded, the treatment system influent and effluent shall continue to be sampled quarterly every February, May, August and November and analyzed by EPA Method 601. The results shall be sent to the Winston-Salem Regional Office every



JAMES B. HUNT JR.
GOVERNOR

WAYNE MCDEVITT
SECRETARY

Mr. Glen L. Foster
18 June 1998
Page 2 of 2

March and September, along with the monitoring well data. *As long as Non-Discharge Permit No. WQ0000831 remains in effect, the treatment system influent and effluent results shall continue to be sent to the address in the permit.*

The revised groundwater quality monitoring schedule described above addresses Section III.1. and Section IV.4. of Permit No. WQ0000831. This schedule is final and binding and is enforceable under 15A NCAC 2L .0110 (a) and (c). Any request for a change in this schedule shall be made in writing to the Winston-Salem Regional Office. AMP should implement this revised strategy with the August 1998 sampling event.

If you have any questions about this monitoring schedule, please contact Don Geddes at the letterhead address or phone number.

Sincerely,



Larry D. Coble

Winston-Salem Regional Supervisor

LDC/DJG/djg

cc: Regional Office Incident File
Bob Cheek - Groundwater Section, Central Office