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May 9, 2011

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Mr. Robert E. Aston, PG
Corrective Action Officer
United States Environmental Protection Agency, Region 7
901 N. Fifth Street
Kansas City, Kansas 66101

RE: 2011 Annual Site Sampling Report
Sauer-Danfoss Facility – Ames, Iowa

Dear Mr. Aston:

The following letter report constitutes the 2011 Annual Site Sampling Report for the Sauer-Danfoss Company (Sauer-Danfoss) site in Ames, Iowa. Included is a summary of system operation, remedial system monitoring, and annual reporting.

SYSTEM OPERATION

Between January 1, 2010 and December 31, 2010, approximately 3,552,041 gallons were pumped from the collection sump and discharged to the City of Ames, Iowa sanitary sewer. For comparison purposes, approximately 1,723,875 gallons were pumped from the collection sump during 2009.

Operational Issues

Semiannual remedial system maintenance was conducted on May 11, 2010 and October 26, 2010, by Fehr-Graham & Associates (FGA) and Mechanical Comfort, Inc. personnel. No significant repairs or adjustments were recommended based on the semiannual maintenance events. Summaries of the semiannual maintenance activities are provided in Attachment 1.

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Typical trench capture of approximately 40 to 100 feet downgradient of the trench in the vicinity of piezometers PZ-1 and PZ-2, and monitoring well MW-19 has been historically observed, suggesting constituent migration beyond the trench may be captured during normal system operation. However, analysis of groundwater samples from downgradient monitoring well MW-33 in 2008 and 2009 found levels of tetrachloroethene (PCE) concentrations increasing to above quantitation limits and/or the Maximum Contaminant Level (MCL). To further evaluate this trend, monitoring well MW-33 was re-sampled on April 19, 2010, based on a conference call with Sauer-Danfoss, the USEPA, and FGA on January 26, 2010. No analytes were detected in the April 2010 MW-33 sample. However, groundwater samples analyzed from MW-19 and MW-33 during the October 2010 annual sampling event show an increase in PCE and several other volatile organic compounds (VOCs). This suggests that, again, the interceptor trench did not hold the plume on-site. 2010 was also marked by a notable increase in precipitation as compared to 2009. The collection sump discharged approximately twice as much water to the sanitary sewer during 2010 as compared to 2009. Historically during high precipitation events, the remedial system failed to adequately provide corrective measures.

Trench capture in the area of monitoring well MW-12 has historically been less definitive, where the groundwater elevation has been measured below the high water level setpoint of the trench. Prior to 2008, analysis of groundwater samples collected from monitoring well MW-12 have historically shown constituent concentrations below reporting limits, suggesting some level of capture in the vicinity. This trend has been reversing, with an increasing level of constituent concentrations observed at MW-12 from 2008 to 2010. Groundwater samples could not be collected from monitoring well MW-12 during the October 2009 annual sampling event as the well was found dry. Monitoring well MW-12 was subsequently sampled on April 19, 2010, based on a conference call with Sauer-Danfoss, the USEPA, and FGA on January 26, 2010. The April 2010 sample exhibited PCE concentrations of 13 ug/L, above the MCL of 5 ug/L, as compared to the October 2008 annual sampling event where PCE concentrations were 12.9 ug/L. The October 2010 annual sampling event shows PCE concentrations of 225 ug/L, in addition to several other VOC analytes that were detected above quantitation limits and/or specific MCLs. This suggests that the remedial system is failing to provide adequate corrective measures in this area. However, MW-34 was installed down-gradient of MW-12 to evaluate off-site migration. Results from MW-34 have displayed no concentrations above MCLs/PRGs.

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REMEDIAL SYSTEM MONITORING

As required by Sauer-Danfoss facility's Non-Domestic Wastewater Discharge Permit (Permit No. 6593-7) issued by the City of Ames Water and Pollution Control Department (WPCD), samples were collected quarterly from the remedial system discharge and analyzed for select constituents listed in Table 1. Laboratory results are presented in Table 2. An increase in all analyzed constituents was observed during 4th Quarter 2010. Copies of the quarterly reports submitted to the City of Ames WPCD are included in Attachment 2.

ANNUAL SAMPLING

Monitoring Well Installation

Monitoring well MW-34 was installed on September 2, 2010 down-gradient of existing MW-12, as depicted on Figure 1. The monitoring well was placed approximately 14 feet below ground surface (bgs). As discussed in the August 6, 2010 Memorandum to the USEPA, titled Proposed Construction of Monitoring Well MW-34, this new well has become part of the shallow groundwater sampling network. Due to its downgradient location, it will be sampled on an annual basis and analyzed for all of the constituents listed on the attached Table 1. MW-34 was initially sampled during the October 2010 sampling event.

Groundwater Elevation

Groundwater elevations were measured in on-site monitoring wells during the October 2010 annual sampling event. Groundwater elevations are summarized in Table 3 and Figure 1. The water level in the sump was measured at 940.43 feet Mean Sea Level (MSL). Assuming the groundwater elevation in the collection trench was equal to that measured in the sump, resulting groundwater elevation contours show groundwater flow toward the collection trench throughout the site (see Figure 1).

The sump high water level setpoint is 941.21 feet MSL. During the October 2010 annual sampling event, the groundwater elevation at both monitoring wells MW-12 and MW-19 were above the sump high water level setpoint. Historically, this suggested that impacted groundwater at these monitoring wells was being intercepted by the collection trench. However, analysis of groundwater samples collected since the October 2008 annual sampling event show increasing constituent concentrations above specific MCLs at these locations. One possible explanation is the volume of precipitation received in 2010; it was likely too much for the collection trench pump to handle successfully.

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Groundwater Volatile Organic Compound (VOC) Constituents

Annual groundwater sampling was conducted on October 20, 2010, in accordance with the 1996 Sampling and Analysis Plan (SAP) (revised in October 2003, September 2004, and September 2006). Monitoring wells MW-10, MW-11, MW-12, MW-R13, MW-18, MW-19, MW-20, MW-R30, MW-31, MW-32, MW-33, and MW-34 were sampled to monitor the performance of the remedial system in providing hydraulic containment of the VOC plume. An additional sampling event was conducted on March 31, 2011 to re-sample monitoring well MW-33, which showed elevated levels of contaminant(s) in the October 2010 sample in response to the USEPA letter dated March 29, 2011. Groundwater samples were also collected from monitoring wells MW-18 and MW-19 in response from the October 20, 2010 sampling.

The sampling protocol for low-recovery wells detailed in the US Army Corps of Engineers *Revised Standard Operating Procedure for Low-flow Groundwater Purging and Sampling*, as incorporated into the SAP, was utilized for monitoring wells exhibiting low groundwater recovery; while the sampling protocol for low-flow sampling specified in the SAP was utilized for the remainder of the selected monitoring wells. The bladder pump intake was positioned at the midpoint of the well screen. Groundwater was directed from the pump discharge tubing into a flow-through cell to track water quality parameters of pH, specific conductance, turbidity, dissolved oxygen (DO), and temperature. Groundwater samples were collected following stabilization of all water quality parameters. Groundwater sampling and final water quality stabilization data is presented in Table 4. Following purging, the pump tubing was disconnected from the flow-through cell, and groundwater samples were collected.

Groundwater samples were analyzed for the constituents listed in Table 1. Results are shown in Table 5, as well as in Figure 2. A comparison of the results from the October 20, 2010 and March 31, 2011 sampling events for monitoring wells MW-18, MW-19, and MW-33 can be seen in Figure 3. Laboratory analytical results are provided in Attachment 3. Table 5 compares October 2010 and March 2011 analytical results with respective historical concentrations obtained during the following sampling events:

- September/October 1994 (Harding Lawson Associates, June 1995 Report)
- November 21, 1997 (Montgomery Watson, February 23, 1998, Annual Sampling Report)
- October 20, 1998 (Montgomery Watson, March 1, 1999, Annual Site Sampling Report)
- October 20, 1999 (Montgomery Watson, February 28, 2000, Annual Site Sampling Report)
- November 9, 2000 (Montgomery Watson, March 21, 2001, Annual Site Sampling Report)

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- November 6, 2001 (MWH, April 8, 2002, Annual Site Sampling Report)
- October 22, 2002 (MWH, May 5, 2003, Annual Site Sampling Report)
- November 17-19, 2003 (MWH, September 27, 2004, Annual Site Sampling Report)
- November 8-19, 2004 (MWH, May 25, 2005, Annual Site Sampling Report)
- November 14-16, 2005 (MWH, June 28, 2006, Annual Site Sampling Report)
- November 13-17, 2006 (MWH, April 26, 2007, Annual Site Sampling Report)
- October 8-10, 2007 (MWH, July 31, 2008, Annual Site Sampling Report)
- October 27-31, 2008 (FGA, March 26, 2009, Annual Site Sampling Report)
- October 15, 2009 (FGA, April 5, 2010, Annual Site Sampling Report)
- April 19, 2010 (FGA, based on January 26, 2010 USEPA conference call).

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A comparative summary of samples collected via low-flow sampling is provided below:

- MW-10: Constituent concentrations in monitoring well MW-10 were generally greater than, or similar to, those observed in prior years. Concentrations of 1,1-dichloroethene (1,1-DCE); 1,4-dioxane; PCE; and trichloroethene (TCE) remained above their respective MCL/Preliminary Remediation Goal (PRG). The concentrations of 1,1,1-trichloroethane (1,1,1-TCA) was also above the MCL for the first time since 2004.

- MW-11: Constituent concentrations in monitoring well MW-11 remained similar to those observed in October 2008. Concentrations of 1,1-DCE; PCE; and TCE remain above their respective MCLs.

- MW-12: Constituent concentrations in monitoring well MW-12 were greater than those observed in prior years. PCE concentrations remained above the MCL and increased to 225 ug/L, compared to the lower levels observed in April 2010 (13 ug/L) and October 2008 (12.9 ug/L). The concentrations of 1,1-DCE (19.4 ug/L) exceeded the MDL of 7 ug/L for the first time since the initiation of routine annual sampling. Detections of 1,1-dichloroethane (1,1-DCA); 1,1,1-TCA; and TCE above laboratory quantitation limits were also observed for the first time.

- MW-R13: Constituent concentrations in monitoring well MW-R13 are higher than those observed in October 2008, but are generally similar to concentrations observed in November 2006. Concentrations of 1,1-DCA; 1,1-DCE; 1,4-dioxane; methylene chloride; PCE; 1,1,1-TCA; 1,1,2-trichloroethane (1,1,2-TCA); TCE; and vinyl chloride remain above the respective MCL/PRGs.

- MW-18: Constituent concentrations in monitoring well MW-18 increased with 1,1-DCE (29.7 ug/L) and PCE (309 ug/L) exceeding their respective MDLs of 7 ug/L and 5 ug/L for the first time since routine annual sampling was initiated. Detections above laboratory quantitation limits were also observed for 1,1-DCA; 1,1,1-TCA; and TCE. Monitoring well MW-18 was re-sampled on March 31, 2011; constituent concentrations were all below laboratory quantitation limits.

- MW-19: Constituent concentrations in monitoring well MW-19 were higher than those observed in October 2009. Concentrations of 1,1-DCE; 1,4-dioxane; PCE; and TCE are above the respective MCL/PRGs. Concentrations of 1,1-DCA; cis-1,2-dichloroethene (cis-1,2-DCE); 1,1,1-TCA; and 1,1,2-TCA were greater than those observed in October 2009, but concentrations remained below their respective MCL. Monitoring well MW-19 was re-sampled on March 31, 2011. Concentrations of 1,4-dioxane; PCE; and TCE remained above their specific MCL/PRG. There was a decrease in concentrations of the remaining constituents.

- MW-20: Constituent concentrations in monitoring well MW-20 were generally similar to those observed in October 2009. Concentrations of 1,1-DCE; 1,4-dioxane; PCE; and TCE remain above their respective MCL/PRG.

- MW-R30: Constituent concentrations in monitoring well MW-R30 are below laboratory quantitation limits, with the exception of cis-1,2-DCE; PCE; and TCE. The TCE concentration (74.8 ug/L) is above the MCL of 5 ug/L. A decrease below the MCL was observed in PCE concentrations as compared to October 2009.

- MW-31: Constituent concentrations in monitoring well MW-31 have remained below laboratory quantitation limits, with the exception of PCE and TCE. A decrease below the MCL was observed in PCE concentrations as compared to October 2009.

- MW-32: Constituent concentrations in monitoring well MW-32 have remained below laboratory quantitation limits, with the exception of TCE (2.5 ug/L).

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- MW-33: Constituent concentrations in monitoring well MW-33 have increased compared to prior years. The PCE concentration (54.6 ug/L) is above the MCL of 5 ug/L. Other increases observed above the laboratory quantitation limits were 1,1-DCE and 1,1,1-TCA. Monitoring well MW-33 was re-sampled on March 31, 2011; constituent concentrations had returned to below laboratory quantitation limits.

- MW-34: Constituent concentrations in monitoring well MW-34 have remained below laboratory quantitation limits.

Shallow groundwater isoconcentration contour maps and hydrogeologic profiles for VOCs historically and/or currently exceeding MCLs/PRGs (1,1-DCA; 1,2-dichloroethane (1,2-DCA); 1,1-DCE; cis-1,2-DCE; trans-1,2-dichloroethene (trans-1,2-DCE); 1,4-dioxane; methylene chloride; PCE; 1,1,1-TCA; 1,1,2-trichloroethane (1,1,2-TCA); TCE; and vinyl chloride) are provided in Figures 4 through 28.

Graphs of historical 1,1-DCA; 1,1-DCE; cis-1,2-DCE; 1,4-dioxane; methylene chloride; PCE; 1,1,1-TCA; 1,1,2-TCA; TCE; and vinyl chloride concentrations in monitoring wells historically showing detections above laboratory quantitation limits are provided in Figures 29 through 38. Concentrations of analyzed constituents appear to be remaining generally steady. A decreasing trend is observed for cis-1,2-DCE.

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Data Validation

All samples were analyzed for both the constituents specified in the Construction Work Plan and 1,4-dioxane within the EPA Method SW-8260B maximum holding time of fourteen (14) days. Samples collected on October 20, 2010, were delivered at the laboratory on October 20, 2010 within three (3) hours of final collection and refrigerated upon receival. Samples were received at the laboratory at a temperature of 5.3 degrees Celsius; samples were received on ice. It should be noted that the groundwater temperature was between approximately ten (10) and seventeen (17) degrees Celsius during the sampling. Analysis of all trip and equipment blanks indicated constituent concentrations were below laboratory quantitation limits. A duplicate sample was collected from monitoring well MW-19 and submitted to the laboratory labeled as D01. The Relative Percent Differences (RPDs) between the MW-19 sample and its duplicate was within 20 percent for all constituents. Calculated RPDs are summarized in Table 6. Surrogate compound recovery was within the acceptable range for all samples evaluated. Matrix spike (MS) / matrix spike duplicate (MSD) recovery was within the acceptable range for all but one (1) of the sample batches evaluated, where the PCE recovery for the MS was 33 percent and the MSD was 13 percent. The RPDs between MS and MSD samples were within the acceptable levels. The lab control sample (LCS) / lab control sample duplicate (LCSD) recovery were within the acceptable range, however the acetone LCS/LCSD RPD of 36 was outside

the control limit of 20. The laboratory blank's calibration verification recovery was outside the method control limit for 1,1-DCA; 1,1-DCE; cis-1,2-DCE; and vinyl chloride in several batches. The LCS for all of these analytes met the acceptance criteria and were used to validate the sample batch. The laboratory blank's percent relative standard deviation (% RSD) for PCE in several batches was above 15%; the average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

Samples collected on March 31, 2011, were delivered at the laboratory on March 31, 2011 within three (3) hours of final collection and refrigerated upon receival. Samples were received at the laboratory at a temperature of 1.3 degrees Celsius; samples were received on ice. Analysis of all trip and equipment blanks indicated constituent concentrations were below laboratory quantitation limits. A duplicate sample was collected from monitoring well MW-33 and submitted to the laboratory labeled as D01. The RPDs between the MW-33 sample and its duplicate was within 20 percent for all constituents. Calculated RPDs are summarized in Table 6. Surrogate compound recovery was within the acceptable range for all samples evaluated. MS / MSD recovery was within the acceptable range for all samples evaluated and the RPDs between MS and MSD samples were within the acceptable level. The laboratory blank's calibration verification recovery was outside the method control limit for PCE in the trip blank batch. The LCS for PCE met the acceptance criteria and was used to validate the sample batch. The laboratory blank's percent RSD for vinyl chloride in the trip blank batch was above 15%; the average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

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NEXT STEPS

In an effort to reduce the remediation timeline and more aggressively address the VOC groundwater contaminant plume, A Corrective Action Plan (CAP) was submitted to the USEPA in November 2010. Comments were received on March 29, 2011. The current remedial system, the collection trench, has operated approximately thirteen (13) years without significant reduction in contaminant concentrations. An additional goal of the collection trench was to intercept off-site contaminant migration. However, since 2008 larger levels of analyzed constituents have been observed in the area downgradient of monitoring wells MW-12, MW-18, MW-19, and MW-33. The CAP proposes to more aggressively address the contaminant source area in the region of monitoring well MW-R13 by conducting in-situ chemical oxidation (ISCO) using Klozur® activated sodium persulfate by FMC Corporation. A Corrective Action Plan Pilot Study (CAPPS) was requested by the USEPA and will also be submitted in May 2011.

In the meantime, as required by Permit No. 6593-7, quarterly system sampling will continue, and samples will continue to be analyzed for the select constituents listed in Table 1.

As necessary, the fourteenth (14th) annual sampling event will be conducted during the fourth (4th) quarter of 2011. Groundwater elevations will be measured in all monitoring wells during the scheduled sampling event. Samples will be collected from monitoring wells MW-12, MW-18, MW-19, MW-20, MW-R30, MW-31, MW-33, and MW-34 and analyzed for constituents listed in Table 1. The 2012 Annual Site Sampling Report will be prepared and submitted to the US EPA in or about March 2012.

If you have questions regarding this report, please do not hesitate to call Joel Zirkle at (815) 394-4700.

Best regards,

Erin Jarrett

Erin E. Jarrett
Environmental Specialist

Joel P. Zirkle

Joel Zirkle, P.G.
Branch Manager

EEJ/JPZ:cld

cc: Mr. Ken Foltz/Sauer-Danfoss, Inc.-Freeport, IL (w/Enc.)
Mr. Gary Erickson/Sauer-Danfoss, Inc.-Ames, IA (w/Enc.)

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2011 Annual Site Sampling Report

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Figure 36 – 1,1,2-TCA Concentrations

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ATTACHMENTS

Attachment 1 – 2010 Semiannual Remedial System Maintenance Memorandums

Attachment 2 – 2010 Quarterly Monitoring Reports

Attachment 3 – Laboratory Report for October 20, 2010 Annual Sampling Event

Attachment 4 – Laboratory Report for March 31, 2011 Resample Event

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TABLES

TABLE 1

ANALYTE LIST

Acetone*
1,1-Dichloroethane*
1,2-Dichloroethane
1,1-Dichloroethene*
cis-1,2-Dichloroethene*
trans-1,2-Dichloroethene
1,4 Dioxane**
Methylene Chloride
Tetrachloroethene*
1,1,1-Trichloroethane*
1,1,2-Trichloroethane
Trichloroethene*
Vinyl Chloride***
Total Xylenes*

*	Required by Sauer-Danfoss's Permit No. 6593-3.
**	Required for select monitoring wells.
***	Beginning second quarter 2002, as requested in the United States Environmental Protection Agency (US EPA) comments on the 2002 Annual Site Sampling Report.

TABLE 2

SAMPLING RESULTS OF REMEDIAL SYSTEM DISCHARGE

Date	Acetone (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)	Xylenes (µg/L)
Maximum[a]	44	370	170	490	1700	650	110	11
2/19/2010	<5.0	5	7.5	28	280	27	12	<2.0
4/14/2010	<5.0	4.5	8.4	26	250	26	10	<2.0
7/14/2010	<5.0	3.4	7	25	340	34	13	<2.0
10/26/2010	<5.0	5.1	12	37	420	46	18	<2.0

[a] Maximum expected concentrations as provided to the City of Ames Water and Pollution Control Department (WPCD) on July 31, 1996.

µg/L = Micrograms per liter.
1,1-DCA = 1,1-Dichloroethane.
1,1-DCE = 1,1-Dichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
PCE = Tetrachloroethene.
1,1,1-TCA = 1,1,1-Trichloroethane.
TCE = Trichloroethene.
NA = Not applicable.

TABLE 3

GROUNDWATER ELEVATIONS

Well No.	Top of Casing NGVD Elevation (ft)	Total Depth NGVD Elevation (ft)	Top of Screen NGVD Elevation (ft)	Initial GW Elevation 2/4/1997 to 02-06-97 (ft)	GW Elevation 11/21/1997 (ft)	GW Elevation 10/20/1998 (ft)	GW Elevation 10/20/1999 (ft)	GW Elevation 11/9/2000 (ft)	GW Elevation 11/6/2001 (ft)	GW Elevation 10/22/2002 (ft)	GW Elevation 11/17/2003 (ft)	GW Elevation 11/9/2004 (ft)	GW Elevation 11/14/2005 (ft)	GW Elevation 11/13/2006 (ft)	GW Elevation 10/8/2007 (ft)	GW Elevation 10/27/2008 (ft)	GW Elevation 10/15/2009 (ft)	GW Elevation 10/20/2010 (ft)
Shallow Wells																		
1	973.71	941.20	951.20	967.40	966.69	967.08	966.30	967.26	967.12	967.36	967.10	967.29	a	a	a	a	a	a
R2S	970.49	949.30	959.30	961.94	962.28	962.79	961.46	963.23	962.05	961.86	962.69	962.31	961.09	962.21	962.34	962.94	962.41	962.05
3	969.05	953.90	961.90	963.28	964.01	964.13	962.45	963.88	963.57	963.17	964.15	963.64	a	a	a	a	a	a
4	970.39	953.10	964.10	965.11	965.10	965.18	963.98	965.06	965.01	964.67	965.15	964.89	a	a	a	a	a	a
5	965.82	950.40	960.40	958.03	957.18	957.53	956.19	957.37	957.68	957.07	957.99	957.81	955.99	958.51	958.66	958.30	957.44	958.52
R6S	965.39	946.00	956.00	957.46	956.47	956.97	955.61	956.61	956.85	956.28	956.94	957.26	955.33	957.92	958.30	957.70	956.85	957.89
10	964.22	945.70	948.70	955.10	954.36	954.38	953.85	954.23	954.93	954.47	954.46	954.70	953.69	955.57	954.93	955.12	954.12	955.47
11	963.26	942.60	945.60	958.06	951.42	951.12	950.89	950.64	951.76	951.62	951.21	951.28	950.86	952.29	951.56	951.67	950.9	952.6
12	959.70	936.80	939.80	948.96	938.23	942.24	939.42	938.82	939.56	940.91	940.11	940.51	938.78	939.94	939.19	939.88	938.05	944.11
R13	965.67	941.70	951.70	956.85	956.04	955.89	954.17	955.46	957.14	956.40	956.31	956.37	954.58	957.79	957.22	957.68	955.94	957.67
R14	965.83	946.10	956.10	954.86	953.04	953.38	953.31	952.07	954.69	954.43	953.07	953.35	952.52	954.93	954.18	955.06	953.28	955.75
15	957.99	935.20	938.20	951.98	949.09	949.27	948.22	947.29	950.76	950.62	950.06	949.90	948.77	951.29	950.46	951.52	949.78	951.92
16	965.90	943.33	b	954.98	951.80	952.41	952.65	950.17	954.51	954.16	954.39	953.03	951.09	954.51	954.14	955.40	952.96	955.72
18	956.73	938.80	941.80	950.34	948.66	948.78	948.28	942.43	948.61	948.82	949.60	949.30	948.03	949.66	949.30	950.67	939.61	948.71
19	954.31	936.60	939.60	947.67	944.63	945.43	944.55	943.15	945.04	945.31	944.91	945.54	945.27	945.55	945.80	946.32	945.58	945.59
20	956.66	939.40	942.40	950.36	945.88	946.48	944.90	942.83	946.08	947.14	946.42	946.33	945.50	947.54	946.56	947.23	945.88	947.44
28	957.17	938.70	941.70	952.54	952.37	952.46	952.21	952.63	952.48	952.30	952.51	952.44	952.18	952.94	952.90	952.06	951.69	952.15
29	955.57	941.40	944.40	950.69	949.87	949.95	949.39	950.23	949.90	949.83	950.11	949.71	949.46	950.63	h	h	h	h
31	953.60	936.50	946.50	947.81	946.97	946.99	947.01	947.43	947.37	947.24	946.97	946.85	946.84	946.99	947.12	946.81	946.85	947
PZ-1	953.81	927.30	b	948.99	945.59	945.84	944.51	946.08	945.67	945.84	946.41	946.20	946.15	946.93	946.61	946.26	942.95	945.58
PZ-2	951.42	925.86	b	947.96	941.42	942.26	940.06	939.27	941.67	942.36	941.89	942.42	941.38	943.61	941.63	943.35	d	d
33	951.67	929.24	939.24	c	c	c	c	c	c	c	c	c	943.95	946.52	947.28	947.55	945.97	946.14
34	951.85	935.25	940.25	j	j	j	j	j	j	j	j	j	j	j	j	j	j	943.33

TABLE 3

GROUNDWATER ELEVATIONS

Well No.	Top of Casing NGVD Elevation (ft)	Total Depth NGVD Elevation (ft)	Top of Screen NGVD Elevation (ft)	Initial GW Elevation 2/4/1997 to 02-06-97 (ft)	GW Elevation 11/21/1997 (ft)	GW Elevation 10/20/1998 (ft)	GW Elevation 10/20/1999 (ft)	GW Elevation 11/9/2000 (ft)	GW Elevation 11/6/2001 (ft)	GW Elevation 10/22/2002 (ft)	GW Elevation 11/17/2003 (ft)	GW Elevation 11/9/2004 (ft)	GW Elevation 11/14/2005 (ft)	GW Elevation 11/13/2006 (ft)	GW Elevation 10/8/2007 (ft)	GW Elevation 10/27/2008 (ft)	GW Elevation 10/15/2009 (ft)	GW Elevation 10/20/2010 (ft)
Deep Wells																		
R2D	970.41	928.30	933.30	960.53	961.84	961.73	961.03	961.55	961.47	961.50	961.89	961.62	960.72	961.69	961.56	962.21	961.77	961.58
R17	965.77	875.60	880.60	944.25	942.79	943.57	943.79	942.17	943.08	943.30	[d]	942.55	942.26	942.19	943.22	943.14	943.12	943.68
R30	958.21	902.40	907.40	950.15	947.05	947.73	947.35	947.52	947.71	948.03	947.80	947.78	947.60	948.40	948.04	947.63	945.46	947.18
32	954.16	897.70	907.70	944.09	942.90	943.08	940.04	943.25	943.23	943.31	943.38	943.19	943.18	943.62	943.49	943.37	941.51	942.42
Sump and Collection Trench	NA	NA	NA	NA	938.71[e]	941.23	940.49	939.14	940.73	942.06	939.44	939.05	939.13[f]	939.20[g]	939.4	938.92[i]	937.47	940.43

Notes:

[a] Monitoring well abandoned October 27, 2005.
[b] Unknown.
[c] Monitoring well installed October 27, 2005.
[d] Monitoring well inadvertently overlooked during sampling event.
[e] Estimated.
[f] Water level measured December 13, 2005.
[g] Water level measured November 17, 2006.
[h] Inaccessible; monitoring well collapsed.
[i] Water level measured October 28, 2008
[j] Monitoring well installed September 2, 2010

ᛚ = National Geodetic Vertical Datum.
(= Groundwater.
ᛚ = Not applicable/available.
f = Feet.

TABLE 4

GROUNDWATER SAMPLING FINAL STABILIZATION DATA

Monitoring Well	Time Sampled	Depth to Water (ft)[a]	pH[b]	Specific Conductance[c] (mS/cm)	Temperature[d] (°C)	DO (mg/L)[e]	Turbidity (NTU)[f]
MW-10	15:54	8.75	7.25	1.50	15.06	0.27	1.18
MW-11	15:13	10.66	7.00	1.13	15.40	0.38	33.60
MW-12	14:37	15.59	7.55	0.72	14.72	0.95	2.01
MW-18	14:06	8.02	7.43	1.19	16.42	1.20	8.40
MW-19	13:34	8.72	7.35	0.87	17.10	0.80	316.00
MW-R13	11:47	8.00	7.26	1.317	15.77	0.70	17.00
MW-20	12:50	9.22	7.24	1.164	16.33	0.73	47.10
MW-R30	9:11	11.03	7.24	0.818	10.55	0.89	38.10
MW-31	10:07	6.60	7.16	2.330	13.92	0.69	535.00
MW-32	9:46	11.74	7.43	0.680	12.33	0.60	66.80
MW-33	16:51	5.53	7.38	0.959	16.45	0.31	104.00
MW-34	11:10	8.52	7.13	1.670	16.51	0.77	964.00

Notes:

[a] Before sampling
[b] Stabilization criteria: stabilized within +/- 0.1 pH units
[c] Stabilization criteria: stabilized within +/- 3%
[d] Stabilization criteria: stabilized within +/- 10%
[e] Stabilization criteria: stabilized within +/- 0.3 mg/L
[f] Stabilization criteria: stabilized within +/- 10 NTUs
ft = Feet.
mS/cm = Millisiemens per centimeter.
°C = Degrees Celsius.
DO = Dissolved oxygen.
NTU = Nepholometric Turbidity Unit.
NM = Not measured.

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

Monitoring Well	Date	Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,4-Dioxane	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride	Total Xylenes
MCL[a]		5,500[b]	810[b]	5	7	70	100	6.1[b]	5	5	200	5	5	2	10
MW-10	Sep-Oct 1994[c]	<25	9.6[d]	<5.0	54	110	<5.0	-	<5.0	1,800	410	<5.0	28	-	<5.0
	11/21/1997	<20	16.4	<1.0	35.7	135	1.6	-	<10	766	162	<1.0	54.5	-	<3.0
	10/20/1999	<20	11.3	<1.0	28.5	87.7	<1.0	-	<10	456	118	<1.0	40.4	-	<3.0
	11/6/2001	<20	10.5	<1.0	22	104	<1.0	-	<5.0	424	120	<1.0	53.2	-	<3.0
	10/22/2002	<20	11.6	<1.0	23.7	61.1	1.7	-	<5.0	497	174	<1.0	59.8	<1.0	<3.0
	11/10/2004	<20.0	14.7	<1.00	37.6	49.6	<1.00	12.4	<5.00	625	223	<1.00	42.9	<1.00	<3.00
	11/15/2006	<10.0	10	<1.00	25.3	53.3	1.07	11	<5.00	385	90.1	<1.00	32.3	<1.00	<3.00
	11-15-06[e]	<10.0	10.8	<1.00	23.9	49.7	1	14[f]	<5.00	372	89.7	<1.00	31.7	<1.00	<3.00
	10/30/2008 (LF)	<10.0	13.6	<1.00	35.6	32.6	<1.00	12	<5.00	405	188	<1.00	30.9	<1.00	<3.00
	10-30-08[e] (LF)	<10.0[f]	14	<1.00	35.7	35.1	<1.00	15	<5.00	421	194	<1.00	31.5	<1.00	<3.00
	10/20/2010	<10.0	18.7	<1.00	56.7	25.2	<1.00	21	<5.00	504	307	<1.00	30.7	<1.00	<6.00
MW-11	Sep-Oct 1994[c]	<25	44	<5.0	130	730	7.1[d]	-	<5.0	2,500	810	8	91	-	<5.0
	11/21/1997	<200[g]	33.9	<10[g]	57.6	676	<10[g]	-	<100[g]	1,460	280	1.8	61.9	-	<30[g]
	10/20/1999	<20	20.2	<1.0	25.3	384	2	-	<10	610	121	<1.0	44.8	-	<3.0
	11/6/2001	<20	14.4	<1.0	18	227	1.7	-	<5.0	811	88.1	<1.0	46.8	-	<3.0
	11-06-01[e]	<20	15.1	<1.0	18.2	233	1.8	-	<5.0	585	87.8	<1.0	44.9	-	<3.0
	10/22/2002	<20	16.5	<1.0	15.6	176	1.4	-	<5.0	551	90.6	<1.0	43.6	<1.0	<3.0
	11/10/2004	<20	12.8	<1.00	15.4	88.9	1.92	10.4	<5.00	420	134	<1.00	34	<1.00	<3.00
	11/15/2006	<10.0	14.8	<1.00	23.3	75.7	1.78	12	<5.00	422	165	<1.00	32.6	<1.00	<3.00
	11-15-06[e]	<10.0	15.5	<1.00	26.3	79.6	1.73	[h]	<5.00	426	172	<1.00	35	<1.00	<3.00
	10/30/2008 (LF)	<50	6.45	<5.00	10.1	35.2	<5.00	5.2	<25.0[g]	355	90.6	<5.00	18.4	<5.00[g]	<15.0[g]
	10-30-08[e] (LF)	<10.0[f]	8.32	<1.00	14.1	37.5	<1.00	[h]	<5.00	391	131	<1.00	21.5	<1.00	<3.00
	10/20/2010	<10.0	6.67	<1.00	16.8	31.2	<1.00	5.8	<5.00	469[v]	106	<1.00	19.8	<1.00	<6.0
MW-12	Sep-Oct 1994[c]	<25	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0
	11/21/1997	<10	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/20/1998	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/20/1999	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/9/2000	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/6/2001	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	11/18/2003	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/9/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/16/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/9/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/27/2008 (PD)	<10.0	<1.00	<1.00	<2.00	<1.00[q]	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/27/2008(RP)	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-
	10/27/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	12.9	<1.00	<1.00	<1.00	<1.00	<3.00
	10/15/2009	u	u	u	u	u	u	u	u	u	u	u	u	u	u
	4/19/2010	<10.0[r]	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	13	<5.00	<1.00	<1.00	<2.00	<3.00
	10/20/2010	<10.0	2.46	<1.00	19.4	<1.00	<1.00	<2.0	<5.00	225[v]	20.4	<1.00	1.17	<1.00	<6.00

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

Monitoring Well	Date	Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,4-Dioxane	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride	Total Xylenes
MCL[a]		5,500[b]	810[b]	5	7	70	100	6.1[b]	5	5	200	5	5	2	10
MW-R13	Sep-Oct 1994[c]	<25	560	5.8	250	200	<5.0	-	9.1[d]	1,100	970	30	72	-	<5.0
	11/21/1997	<400[g]	1,980	<20[g]	1,120	81.2	<20[g]	-	<200[g]	1,200	3,140	159	<20	-	<60[g]
	10-20-99[i]	<400	2,530	<20	1,510	57.5	<20	-	<200	1,750	3,370	195	<20	-	<60
	11/6/2001	<20	2,020	6.5	1,510	78.8	1.6	-	39	3,040	3,220	238	24.3	-	<3.0
	10/22/2002	<20	3,680	10.3	1,430	71.2	<1.0	-	24.3	3,170	2,140	188	27.4	40.6	<3.0
	11/10/2004	<20.0	1,940	5.84	2,610	101	2.4	124	29.9	4,830	4,790	270	50.6	<1.00	<3.00
	11/14/2006	<231[g]	2,480	<8.00[g]	4,650	53	<7.50[g]	74.6	196[d]	8,080	6,660	310	40.5[d]	106	<8.50[g]
	10/30/2008 (PD)	<1000[g]	2,740	<100[g]	5,890	<100[g]	<100	-	<500[g]	8,580	7,970	337	<100[g]	<100[g]	<300[g]
	10-30-08[e] (PD)	<1000[g,r]	2,700	<100[g]	5,800	<100[g]	<100	-	<500[g]	8,020	8,060	346	<100[g]	<100[g]	<300[g]
	10/30/2008 (RP)	-	-	-	-	-	-	78	-	-	-	-	-	-	-
	10-30-08[e] (RP)	-	-	-	-	-	-	77	-	-	-	-	-	-	-
	10/31/2008 (LF)	<1000[g]	1,920	<100[g]	3,460	<100[g]	<100	110	<500[g]	5,480	4,720	221	<100[g]	<100[g]	<300[g]
	10/20/2010	<10.0	2860[q]	<1.0	5110[q]	40.5	2.37	92	30.5	10300[v]	6,240	325	45.8	66.4	<6.0
MW-15	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	2.1	<1.0	<1.0	<1.0	<1.0	<3.0
MW-16	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-18	Sep-Oct 1994[c]	<25[j]	<5.0[j]	<5.0[j]	<5.0[j]	<5.0[j]	<5.0[j]	-	<5.0[j]	<5.0	<5.0[j]	<5.0	<5.0	-	7.7
	11/21/1997	<10	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/20/1998	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/20/1999	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/9/2000	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/6/2001	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	11/18/2003	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/9/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2006	<10.0[k]	<1.00[k]	<1.00[k]	<2.00[k]	<1.00[k]	<1.00[k]	<2.0[k]	22.0[k]	<1.00[k]	<1.00[k]	<1.00[k]	<1.00[k]	<1.00[k]	<3.00[k]
	10/9/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/29/2008(LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/15/2009	u	u	u	u	u	u	u	u	u	u	u	u	u	u
	10/20/2010	<10.0	3.54	<1.00	29.7	<1.00	<1.00	<2.0	<5.00	309	38	<1.00	1.47	<1.00	<3.00
	3/31/2011	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

Monitoring Well	Date	Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,4-Dioxane	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride	Total Xylenes
MCL[a]		5,500[b]	810[b]	5	7	70	100	6.1[b]	5	5	200	5	5	2	10
MW-19	Sep-Oct 1994[c]	<25	130	<5.0	140	150	<5.0	-	<5.0	1,600[d]	900	18	170	-	<5.0
	11/21/1997	<20	77.8	<1.0	13.9	78.1	3.5	-	<10	180	96	5.6	49.4	-	<3.0
	11-21-97[e]	<20	80.2	<1.0	20.3	79.3	4.1	-	<10	190	120	5.3	52.5	-	<3.0
	10/20/1998	<20	57.2	<1.0	24.5	88.3	2.2	-	<10	206	163	6.6	55.2	-	<3.0
	10/20/1999	<20	58.8	<1.0	43.4	106	2.1	-	<10	374	220	7.1	73.4	-	<3.0
	11/9/2000	<20	35.6	<1.0	10	17.9	<1.0	-	<5.0	213	30.6	<1.0	21.9	-	<3.0
	11/6/2001	<20	9.6	<1.0	7.9	13.2	<1.0	-	<5.0	187	45.4	1	14.8	-	<3.0
	10/22/2002	<20	5.1	<1.0	5	8.9	<1.0	-	<5.0	130	38.9	<1.0	11.2	<1.0	<3.0
	11/18/2003	<20.0	11.7	<1.00	21.9	19.7	<1.00	14.6	<5.00	235	101	1.28	24.3	<1.00	<3.00
	11/9/2004	<20.0	2.8	<1.00	5.77	4.72	<1.00	9.4	<5.00	129	26.3	<1.00	9.23	<1.00	<3.00
	11-09-04[e]	<20.0	2.7	<1.00	5.41	4.77	<1.00	9.8	<5.00	122	26.2	<1.00	9.75	<1.00	<3.00
	11/16/2005	<20.0	2.15	<1.00	3.45	3.19	<1.00	<6	<5.00	76.4	15.4	<1.00	4.76	<1.00	<3.00
	11-16-05[e]	<20.0	2.33	<1.00	3.69	3.24	<1.00	<6	<5.00	73.4	15.3	<1.00	4.76	<1.00	<3.00
	11/17/2006	<10.0	5.97	<1.00	9.85	7.41	<1.00	17	<5.00	124	32.7	<1.00	8.75	<1.00	<3.00
	10/10/2007	<10.0	<1.00	<1.00	6.31	1.98	<1.00	5	<5.00	64.5	2.66	<1.00	3.52	<1.00	<3.00
	10/10/2007	<10.0	<1.00	<1.00	6.49	1.75	<1.00	5.1	<5.00	67.2	2.46	<1.00	3.37	<1.00	<3.00
	10/29/2008(LF)	<10.0	1.12	<1.00	2.05	1.27	<1.00	<2.0	<5.00	40	7.66	<1.00	1.9	<1.00	<3.00
	10/15/2009	<10.0	1.6	<1.00	<2.00	3.41	<1.00	3.5	<5.00	38	6.83	<1.00	3.64	<1.00	<4.00
	10-15-09[e]	<10.0	1.56	<1.00	2.2	3.72	<1.00	3.1	<5.00	38.2	6.71	<1.00	4.06	<1.00	<4.00
	10/20/2010	<10.0	25.2	<1.00	44	13.6	<1.00	22	<5.00	432[v]	64.9	1.02	14.4	<1.00	<6.00
	10-20-2010[e]	<10.0	22.2	<1.00	40.3	11.1	<1.00	27	<5.00	399[v]	59.5	<1.00	12.4	<1.00	<6.00
	3/31/2011	<10.0	4.94	<1.00	6.21	4.67	<1.00	12	<5.00	69.7	18	<1.00	5.18	<1.00	<3.00
MW-20	Sep-Oct 1994[c]	<25	70	<5.0	110	90	<5.0	-	<5.0	1,800	760	20	26	-	<5.0
	11/21/1997	<200[g]	130	<10[g]	70	230	<10[g]	-	<100[g]	1,020	316	14.4	38.2	-	<30[g]
	10/20/1998	<20	77.6	<1.0	61.2	221	4.6	-	<10	1,450	304	11.4	51.2	-	<3.0
	10-20-98[e]	<20	68.8	<1.0	73.4	219	3.2	-	<10	1,490	307	11.7	50.9	-	<3.0
	10/20/1999	<40	58.9	<2.0	47.5	148	<2.0	-	<20	957	192	7.8	34.7	-	<6.0
	10-20-99[e]	<20	68.3	<1.0	57.7	168	1.8	-	<10	1,200	233	8.1	42.2	-	<3.0
	11/9/2000	<20	74.1	<1.0	54.2	275	6.6	-	<5.0	915	222	7.1	48.6	-	<3.0
	11/6/2001	<20	49.2	<1.0	17.1	279	3.2	-	<5.0	848	102	6.5	35.8	-	<15
	10/22/2002	<20	43.3	<1.0	33	182	3.2	-	<5.0	1,330	168	6.3	46.8	<1.0	<3.0
	10-22-02[e]	<20	33	<1.0	47.7	182	2.3	-	<5.0	1,250	216	5.9	56.4	<1.0	<3.0
	11/19/2003	<20.0	57.4	<1.00	45.9	158	3.9	32.5	<5.00	1,080	143	4.85	39.8	<1.00	<3.00
	11-19-03[e]	<20.0	64.9	<1.00	57.3	176	4.03	43.8	<5.00	1,090	166	5.02	45.7	<1.00	<3.00
	11/10/2004	<20.0	47.9	<1.00	40.5	124	4.45	90.9	<5.00	590	121	3.84	31.7	<1.00	<3.00
	11/16/2005	<20.0	47.7	<1.00	50.6	140	3.4	<30	<5.00	967	163	3.57	42.5	<1.00	<3.00
	11/17/2006	<10.0	41.1	<1.00	36.2	107	6.39	83	<5.00	642	102	3.1	30.4	1.81	<3.00
	10/10/2007	<10.0	27.2	<1.00	62.8	90.4	5.39	66	<5.00	582	45.3	2.69	29.3	2.96	<3.00
	10/30/2008 (PD)	<50.0	15.8	<5.00	10.6	41.4	<5.00	-	<25[g]	88.8	25.9	<5.00	8.7	<5.00[g]	<15.0[g]
	10/30/08 (RP)	-	-	-	-	-	-	64	-	-	-	-	-	-	-
	10/30/08 (LF)	<50.0	27.6	<5.00	25.3	71.6	<5.00	54	<25[g]	535	65.8	<5.00	23.2	<5.00[g]	<15.0[g]
	10/15/2009	<10.0	26.5	<1.00	21	57.4	2.37	39	<5.00	408	67	1.65	21.7	<1.00	<4.00
	10/20/2010	<10.0	38.2	<1.00	89.6	55.8	2.98	42	<5.00	719[v]	137	2.52	22.4	<1.00	<6.00

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

Monitoring Well	Date	Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,4-Dioxane	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride	Total Xylenes
MCL[a]		5,500[b]	810[b]	5	7	70	100	6.1[b]	5	5	200	5	5	2	10
MW-29	10/22/2002	<20	<1.0	<1.0	<2.0	3.5	<1.0	-	<5.0	**6.1**	1.1	<1.0	4.3	<1.0	<3.0
MW-R30	10/22/2002	<20	<1.0	<1.0	<2.0	2.8	<1.0	-	<5.0	1.4	<1.0	<1.0	<1.0	<1.0	<3.0
	11/17/2003	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/9/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2005	<20.0	<1.00	<1.00	<2.00	1.47	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/14/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/9/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/29/2008 (PD)	<10.0[r]	<1.00	<1.00	<2.00	2.06	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/29/2008 (LF)	<10.0[r]	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	**10.2**	<1.00	<1.00	<1.00	<1.00	<3.00
	10/15/2009	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	**63.6**	3.07	<1.00	**37.6**[t]	<1.00	<4.00
	10/20/2010	<10.0	<1.00[q]	<1.00	<2.00[q]	29.4[q]	<1.00	-	<5.00	3.83[v]	<5.00	<1.00	**74.8**	<1.00[q]	<6.00
MW-31	Sep-Oct 1994[c]	<25	<5.0	<5.0	<5.0	8.3	<5.0	-	<5.0	**36**	25	<5.0	**19**	-	<5.0
	11/21/1997	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/20/1998	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/20/1999	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/9/2000	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/6/2001	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	11/17/2003	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/8/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/16/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/13/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/8/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/27/2008 (PD)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/27/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	**11.3**	<1.00	<1.00	<1.00	<1.00	<3.00
	10/15/2009	<10.0	<1.00	<1.00	<2.00[r]	<1.00	<1.00	-	<5.00	**5.72**	<1.00	<1.00	<1.00	<1.00	<4.00
	10/20/2010	<10.0	<1.00[q]	<1.00	<2.00[q]	<1.00[q]	<1.00	-	<5.00	2.04[v]	<5.00	<1.00	2.21	<1.00[q]	<6.00
MW-32	Sep-Oct 1994[c]	<25	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	<5.0
	11/21/1997	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	**220**	<1.0	<1.0	<1.0	-	<3.0
	10/20/1999	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/6/2001	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	1.9[m]	<1.0	<1.0	<1.0	-	<3.0
	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	11/8/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/14/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/28/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/20/2010	<10.0	<1.00[q]	<1.00	<2.00[q]	<1.00[q]	<1.00	-	<5.00	<1.00[v]	<5.00	<1.00	2.5	<1.00[q]	<6.00

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

Monitoring Well	Date	Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,4-Dioxane	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride	Total Xylenes
MCL[a]		5,500[b]	810[b]	5	7	70	100	6.1[b]	5	5	200	5	5	2	10
MW-33	11/15/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/13/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<5.19	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/8/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/28/2008 (PD)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/28/2008 (RP)	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-
	10/28/2008(LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00[q]	<2.0	<5.00	19.9	<1.00	<1.00	<1.00	<1.00	<3.00
	10/15/2009	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	3.18	<1.00	<1.00	<1.00	<1.00	<4.00
	4/19/2010	<10.0[v]	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<5.00	<1.00	<1.00	<2.00	<3.00
	10/20/2010	<10.0	<1.00	<1.00	2.75	<1.00	<1.00	<2.0	<5.00	54.6	3.95	<1.00	<1.00	<1.00	<3.00
	3/31/2011	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	3-31-2011[e]	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
MW-34	10/20/2010	<10.0	<1.00[q]	<1.00	<2.00[q]	<1.00[q]	<1.00	<2.0	<5.00	<1.00[v]	<5.00	<1.00	<1.00	<1.00[q]	<6.00
Trip Blank	11/21/1997	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	1.2[n]	<1.0	<1.0	<1.0	-	<3.0
	10/20/1998	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<10	<1.0	<1.0	<1.0	<1.0	-	<3.0
	11/6/2001	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	-	<3.0
	10/22/2002	<20	<1.0	<1.0	<2.0	<1.0	<1.0	-	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	11/8/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/10/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/16/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/13/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<5.19	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/13/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/13/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0[f]	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/8/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	[o]	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/10/2008[p]	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/27/2008	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00[q]	<2.0	10.7[s]	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/29/2008	<10.0[r]	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	9.81[s]	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	4/19/2010	<10.0[r]	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<5.00	<1.00	<1.00	<2.00	<3.00
	10/20/2010	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00[v]	<5.00	<1.00	<1.00	<1.00	<3.00
	3/31/2011	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6.0	<5.00	<1.00[q]	<1.00	<1.00	<1.00	<1.00[v]	<3.00

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

Monitoring Well	Date	Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,4-Dioxane	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride	Total Xylenes
MCL[a]		5,500[b]	810[b]	5	7	70	100	6.1[b]	5	5	200	5	5	2	10
Equipment Blank	11/18/2003	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/8/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/9/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/10/2004	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	12.9	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/16/2005	<20.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/13/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<5.19	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/14/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<5.19	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/15/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	11/17/2006	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/8/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	1.05	<1.00	<1.00	<1.00	<1.00	<3.00
	10/9/2007	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/10/2008[p] (PD)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	-	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/10/2008[p] (RP)	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-
	10/27/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/28/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/29/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/30/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/31/2008 (LF)	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
	10/15/2009	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00
	10/15/2009	<10.0	<10.0	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00
	10/20/2010	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00[v]	<5.00	<1.00	<1.00	<1.00	<3.00
	10/20/2010	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<2.0	<5.00	<1.00[v]	<5.00	<1.00	<1.00	<1.00	<6.00
	3/31/2011	<10.0	<1.00	<1.00	<2.00	<1.00	<1.00	<6.0	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00

Notes:

[a] Bold data values are above MCL.
[b] Region 9 Preliminary Remediation Goal.
[c] Harding Lawson Associates.
[d] Estimated result.
[e] Duplicate.
[f] Analyte detected in associated method blank. Sample rerun, but past holding time.
[g] Detection limited by laboratory dilution ratio.
[h] Only one duplicate required for 1,4-dioxane samples.
[i] Reporting limit elevated due to matrix interferences.
[j] Estimated quantitation limit.
[k] Holding time exceedance.
[l] Analysis not required per November 2, 2005, e-mail correspondence from Spencer Dulaney of United States Environmental Protection Agency (USEPA) to James Aycock of USEPA.
[m] Possible carryover from previous sample at laboratory.
[n] Suspected to be carryover from sample analyzed immediately prior.
[o] Not analyzed.
[p] Collected during initial installation of PD and RP samplers
[q] Calibration verification recovery outside the method control limits.
[r] Laboratory control sample was outside acceptance criteria.
[s] Common lab contaminant.
[t] MS/MSD were outside control limits.
[u] Not enough water volume in well to sample.
[v] The % RSD for this compound was above 15%.

µg/L = Micrograms per liter.
1,1-DCA = 1,1-Dichloroethane.
1,2-DCA = 1,2-Dichloroethane.
1,1-DCE = 1,1-Dichloroethene.
cis-1,2-DCE = cis-1,2-Dichloroethene.
trans-1,2-DCE = trans-1,2-Dichloroethene.
PCE = Tetrachloroethene.
1,1,1-TCA = 1,1,1-Trichloroethane.
1,1,2-TCA = 1,1,2-Trichloroethane.
TCE = Trichloroethene.
MCL = Maximum contaminant level.
LF = Low-flow sampling method
PD = Polyethylene diffusion bag sampler
RP = Rigid porous polyethylene sampler

TABLE 6
RELATIVE PRECENT DIFFERENCES

CONSTITUENT CONCENTRATIONS IN MW-19 AND RESPECTIVE DUPLICATE
10/20/2010 SAMPLING EVENT

Analyte	MW-19 (µg/L)	Duplicate (µg/L)	RPD (%)
Acetone	<10.0	<10.0	N/A
1,1-Dichloroethane	25.2	22.2	13
1,2-Dichloroethane	<1.00	<1.00	N/A
1,1-Dichloroethene	44	40.3	9
cis-1,2-Dichloroethene	13.6	11.1	20
trans-1,2-Dichloroethene	<1.00	<1.00	N/A
1,4-Dioxane	22	27	-20
Methylene Chloride	<5.00	<5.00	N/A
Tetrachloroethene	432	399	8
1,1,1-Trichloroethane	64.9	59.5	9
1,1,2-Trichloroethane*	1.02	1	2
Trichloroethene	14.4	12.4	15
Vinyl Chloride	<1.00	<1.00	N/A
Total Xylenes	<6.00	<6.00	N/A

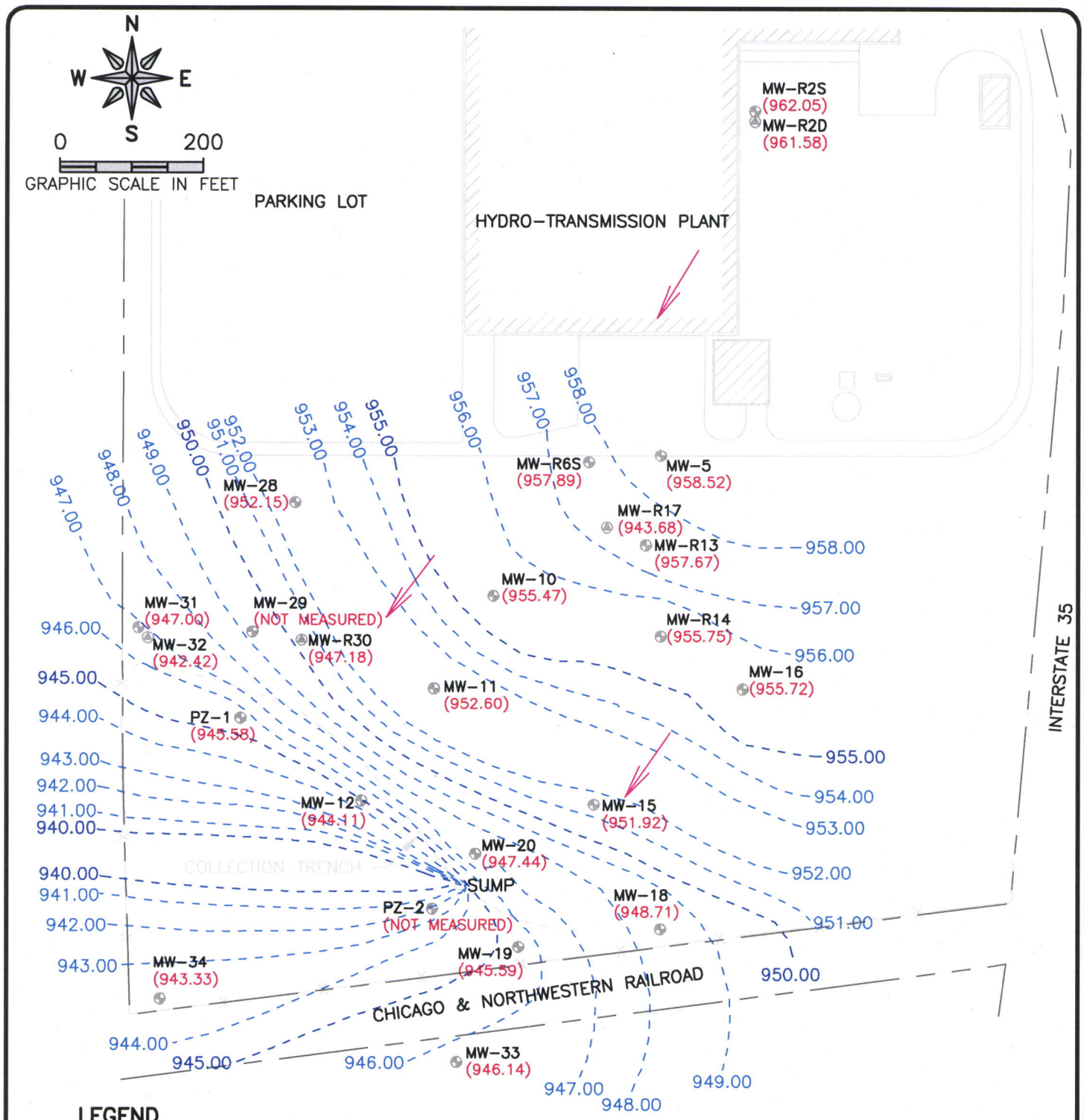
CONSTITUENT CONCENTRATIONS IN MW-33 AND RESPECTIVE DUPLICATE
3/31/2011 SAMPLING EVENT

Analyte	MW-33 (µg/L)	Duplicate (µg/L)	RPD (%)
Acetone	<10.0	<10.0	N/A
1,1-Dichloroethane	<1.00	<1.00	N/A
1,2-Dichloroethane	<1.00	<1.00	N/A
1,1-Dichloroethene	<2.00	<2.00	N/A
cis-1,2-Dichloroethene	<1.00	<1.00	N/A
trans-1,2-Dichloroethene	<1.00	<1.00	N/A
1,4-Dioxane	<6.00	<6.00	N/A
Methylene Chloride	<5.00	<5.00	N/A
Tetrachloroethene	<1.00	<1.00	N/A
1,1,1-Trichloroethane	<1.00	<1.00	N/A
1,1,2-Trichloroethane*	<1.00	<1.00	N/A
Trichloroethene	<1.00	<1.00	N/A
Vinyl Chloride	<1.00	<1.00	N/A
Total Xylenes	<3.00	<3.00	N/A

Notes:

Actual value for Duplicate is <1.00
RPD = Relative percent difference.
(µg/L) = Micrograms per liter.
NA = Not applicable.
% = Percent.

FIGURES



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (950.67) SHALLOW GROUNDWATER ELEVATION IN FEET NGVD
- SHALLOW GROUNDWATER ELEVATION CONTOUR
- INFERRED DIRECTION OF GROUNDWATER FLOW
- COLLECTION TRENCH (WATER ELEVATION 940.43 MEASURE ON 10/20/10)

FIGURE 1

SHALLOW GROUNDWATER FLOW
OCTOBER 20, 2010
SAUER-DANFOSS FACILITY
AMES, IOWA

5/6/11

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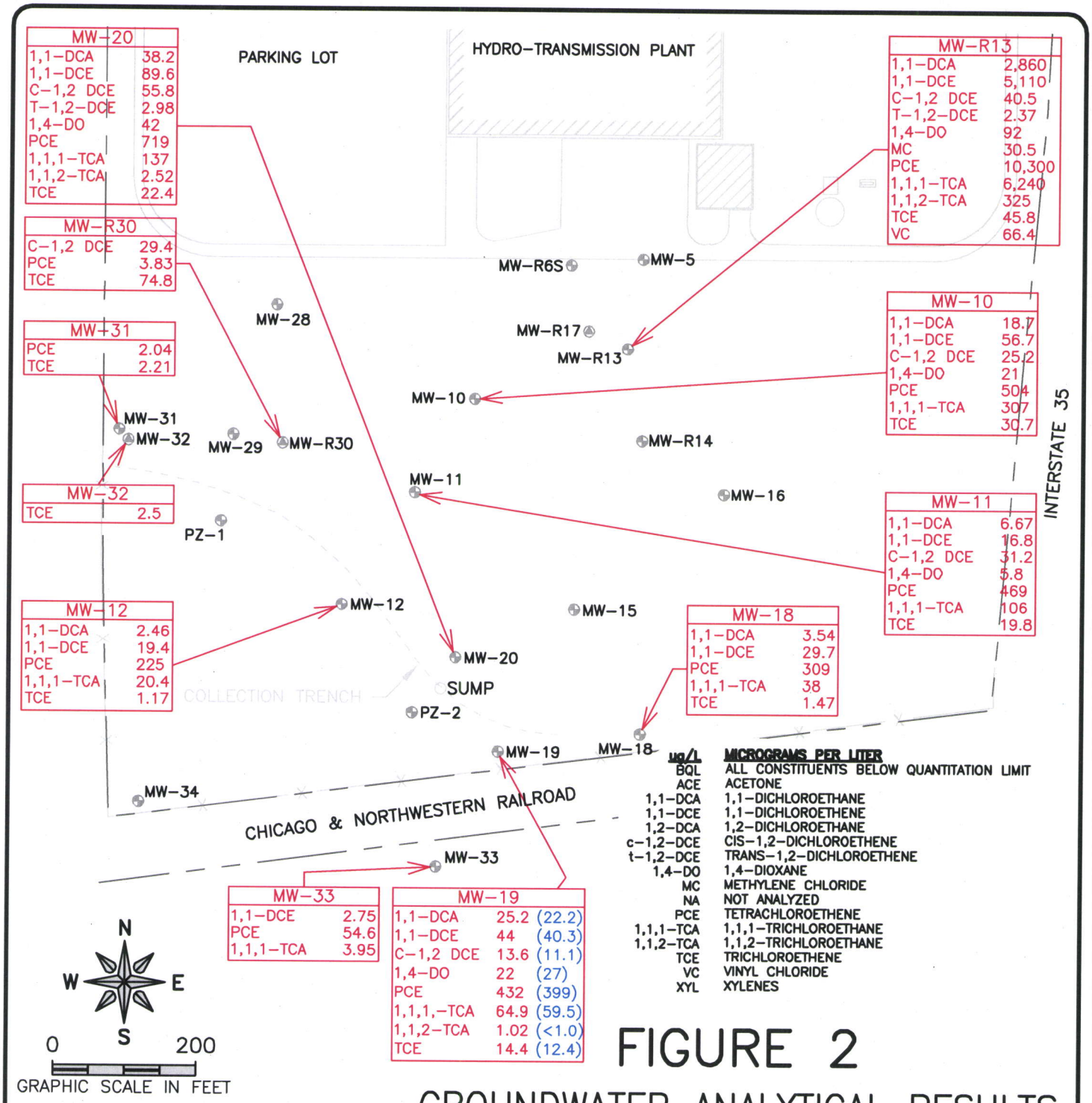

ug/L	MICROGRAMS PER LITER
BQL	ALL CONSTITUENTS BELOW QUANTITATION LIMIT
ACE	ACETONE
1,1-DCA	1,1-DICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
1,2-DCA	1,2-DICHLOROETHANE
c-1,2-DCE	CIS-1,2-DICHLOROETHENE
t-1,2-DCE	TRANS-1,2-DICHLOROETHENE
1,4-DO	1,4-DIOXANE
MC	METHYLENE CHLORIDE
NA	NOT ANALYZED
PCE	TETRACHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE
XYL	XYLENES

FIGURE 2

GROUNDWATER ANALYTICAL RESULTS ABOVE QUANTITATION LIMIT OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- PCE 19.9 VOLATILE ORGANIC COMPOUND CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) INDICATES RESULTS FROM DUPLICATE SAMPLE

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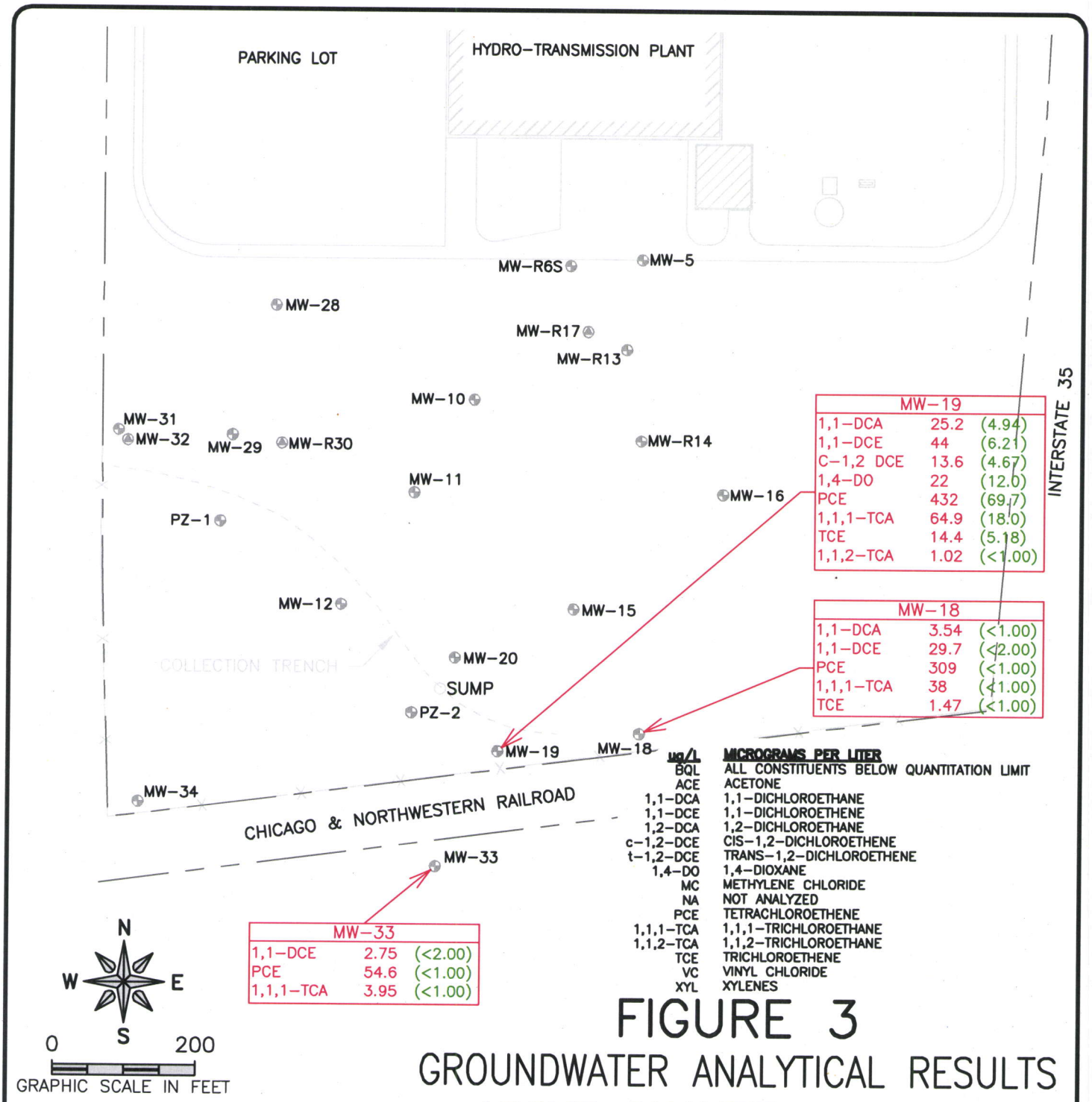

ug/L	MICROGRAMS PER LITER
BQL	ALL CONSTITUENTS BELOW QUANTITATION LIMIT
ACE	ACETONE
1,1-DCA	1,1-DICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
1,2-DCA	1,2-DICHLOROETHANE
c-1,2-DCE	CIS-1,2-DICHLOROETHENE
t-1,2-DCE	TRANS-1,2-DICHLOROETHENE
1,4-DO	1,4-DIOXANE
MC	METHYLENE CHLORIDE
NA	NOT ANALYZED
PCE	TETRACHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE
XYL	XYLENES

FIGURE 3

GROUNDWATER ANALYTICAL RESULTS ABOVE QUANTITATION LIMIT COMPARISON OF OCTOBER 20, 2010 AND MARCH 31, 2011 SAMPLING EVENTS SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- PCE 19.9 VOLATILE ORGANIC COMPOUND CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L 10/20/2010 SAMPLING EVENT
- (20) 3/31/2011 SAMPLING EVENT

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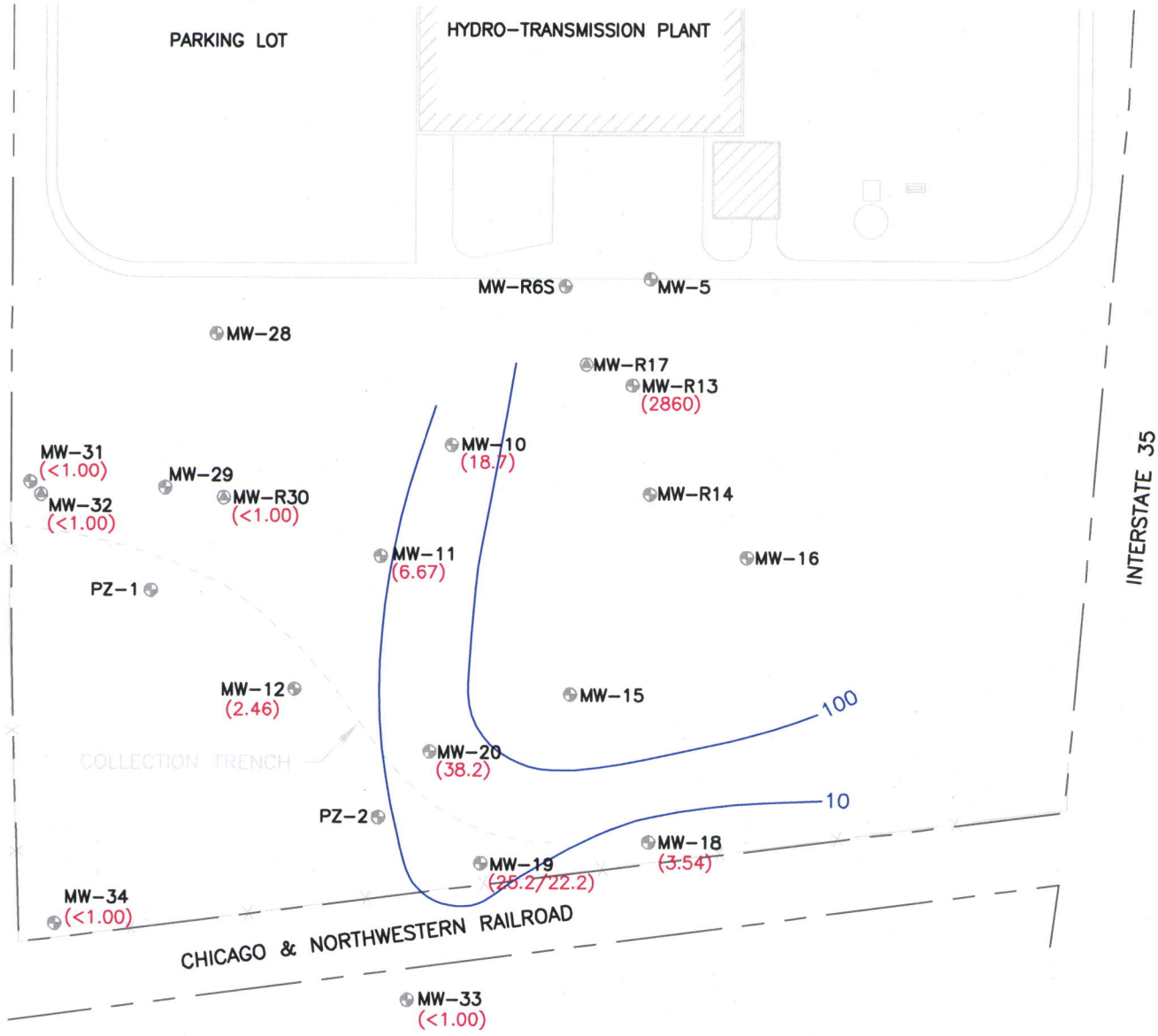

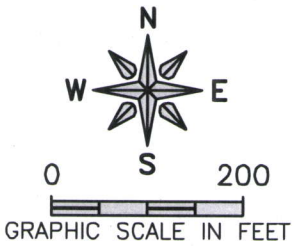

FIGURE 4

SHALLOW GROUNDWATER 1,1-DICHLOROETHANE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,1-DICHLOROETHANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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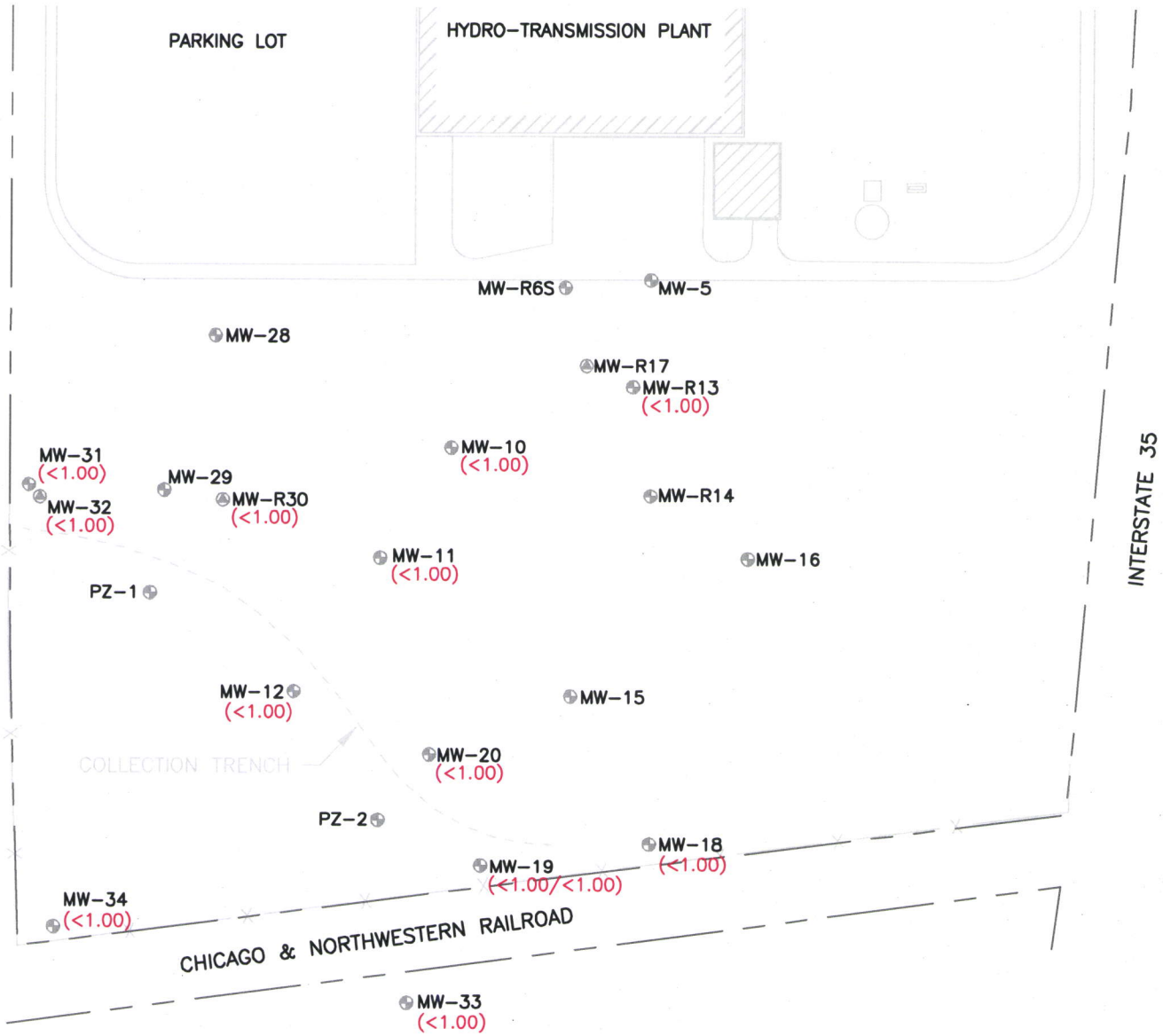

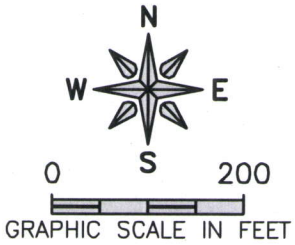

FIGURE 5

SHALLOW GROUNDWATER 1,2-DICHLOROETHANE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,2-DICHLOROETHANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L

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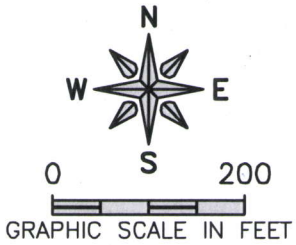

FIGURE 6

SHALLOW GROUNDWATER 1,1-DICHLOROETHENE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,1-DICHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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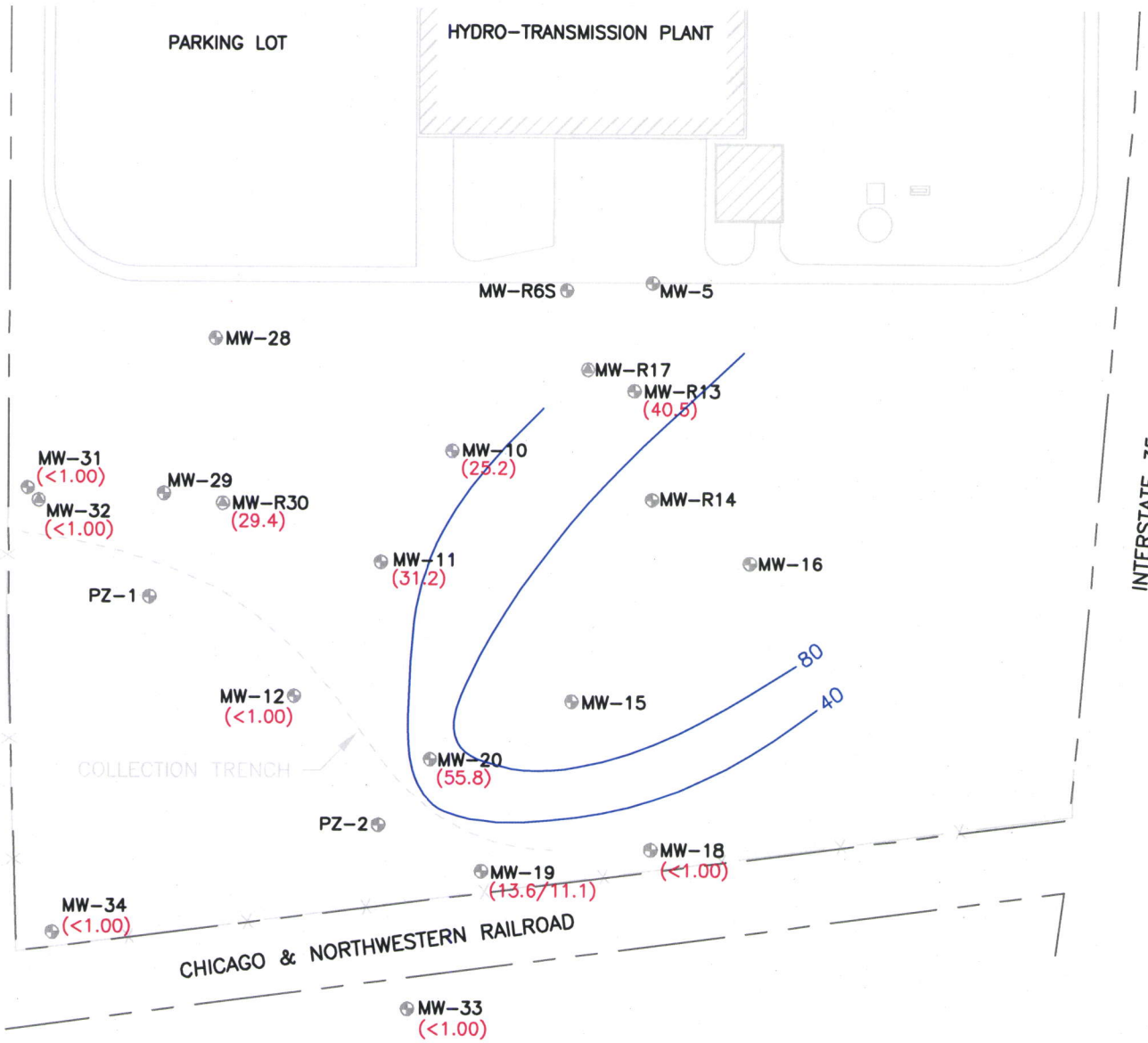

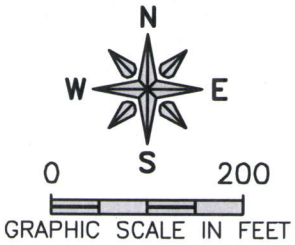

FIGURE 7

SHALLOW GROUNDWATER
CIS-1,2-DICHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
SAUER-DANFOSS FACILITY
AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) CIS-1,2-DICHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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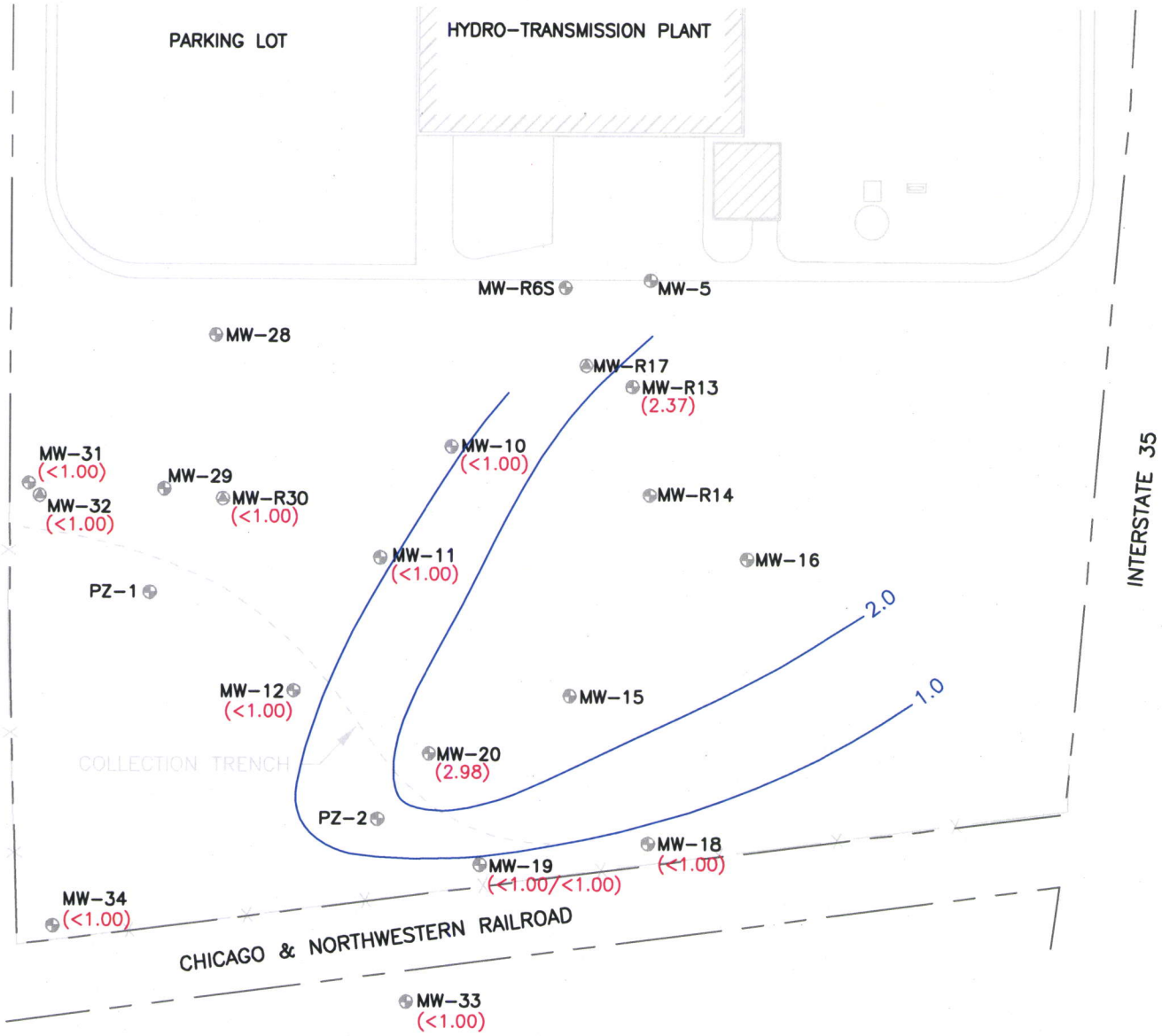

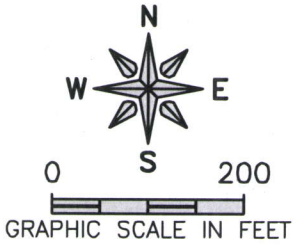

FIGURE 8

SHALLOW GROUNDWATER
TRANS-1,2-DICHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
SAUER-DANFOSS FACILITY
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) TRANS-1,2-DICHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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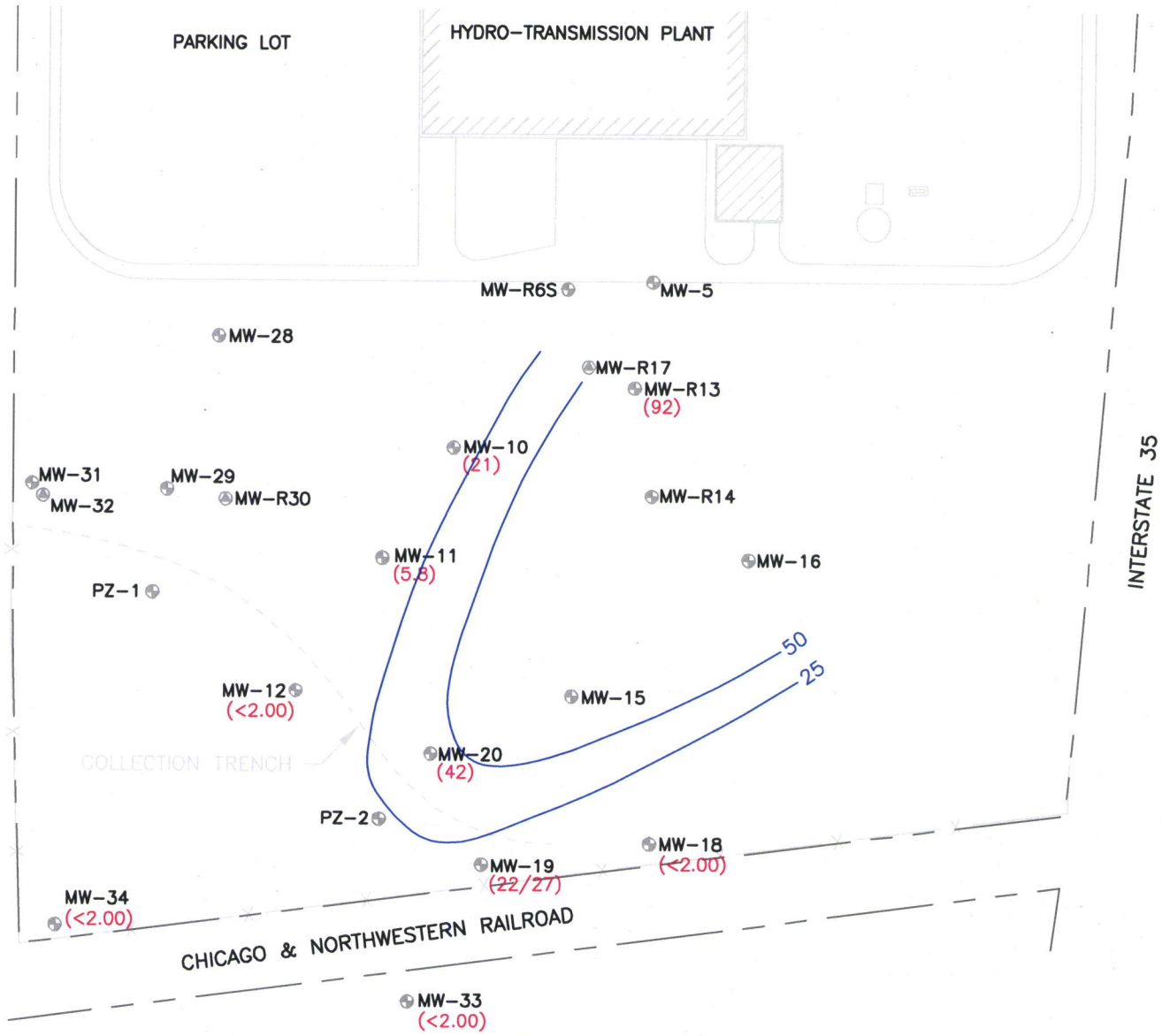

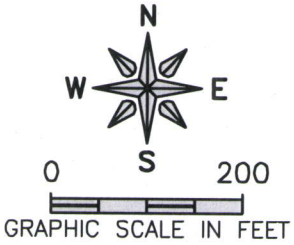

FIGURE 9

SHALLOW GROUNDWATER 1,4-DIOXANE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,4-DIOXANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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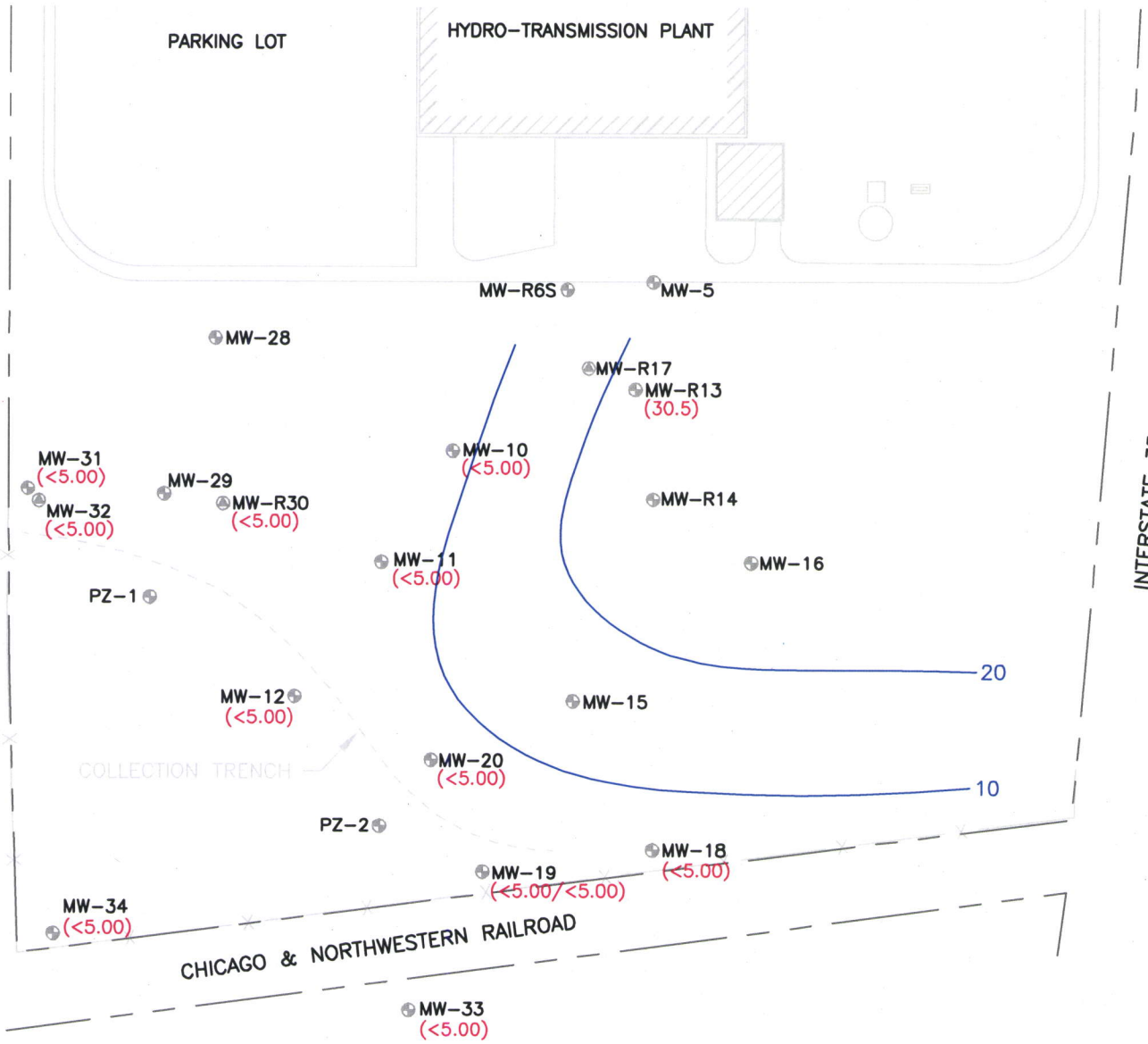

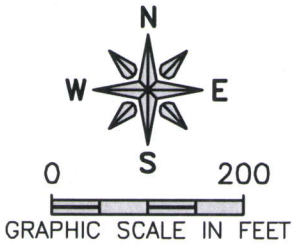

FIGURE 10

SHALLOW GROUNDWATER METHYLENE CHLORIDE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) METHYLENE CHLORIDE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L

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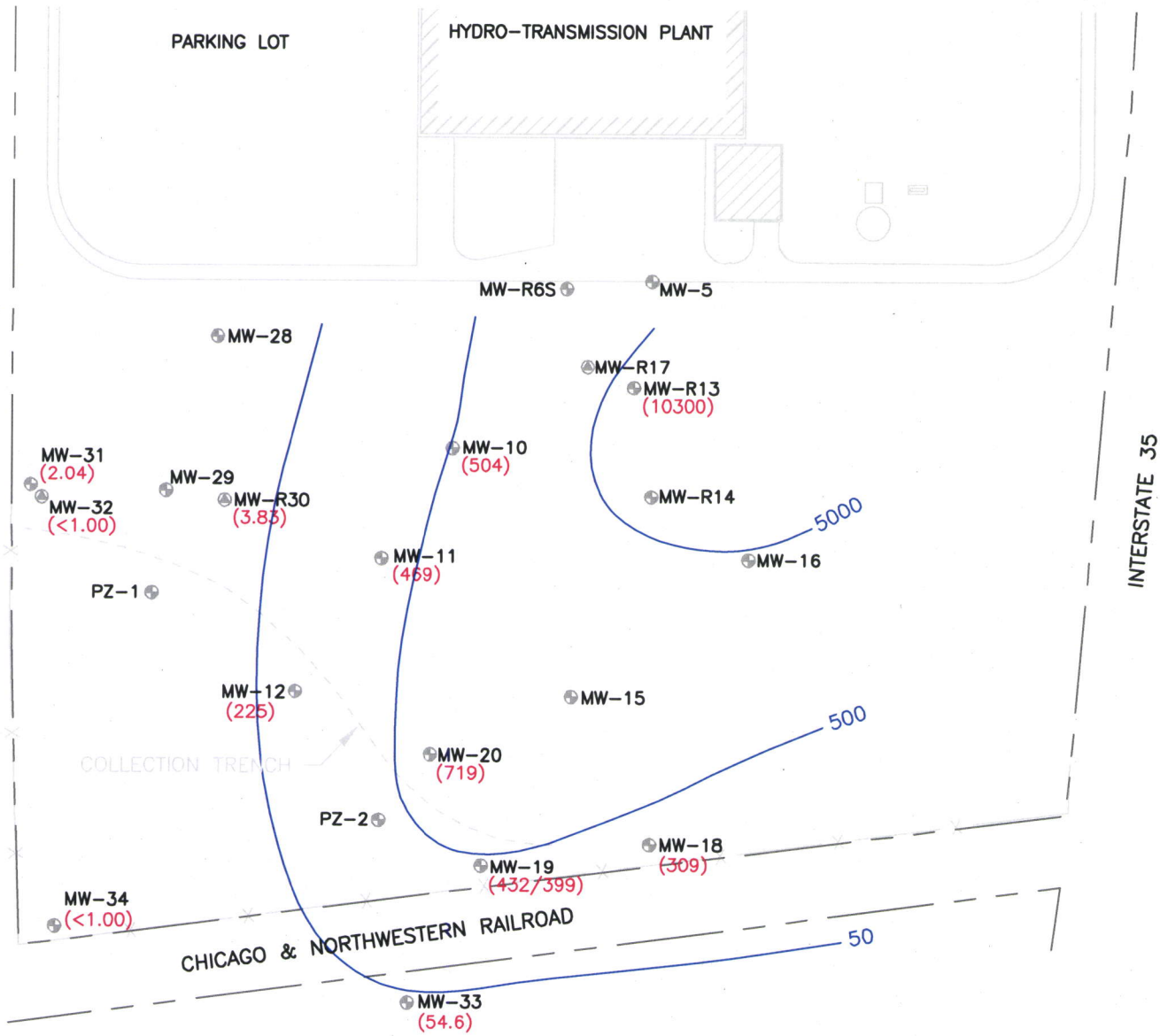

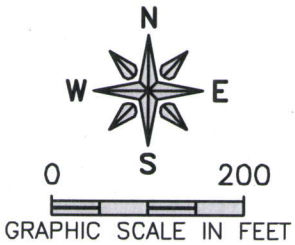

FIGURE 11

SHALLOW GROUNDWATER TETRACHLOROETHENE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) TETRACHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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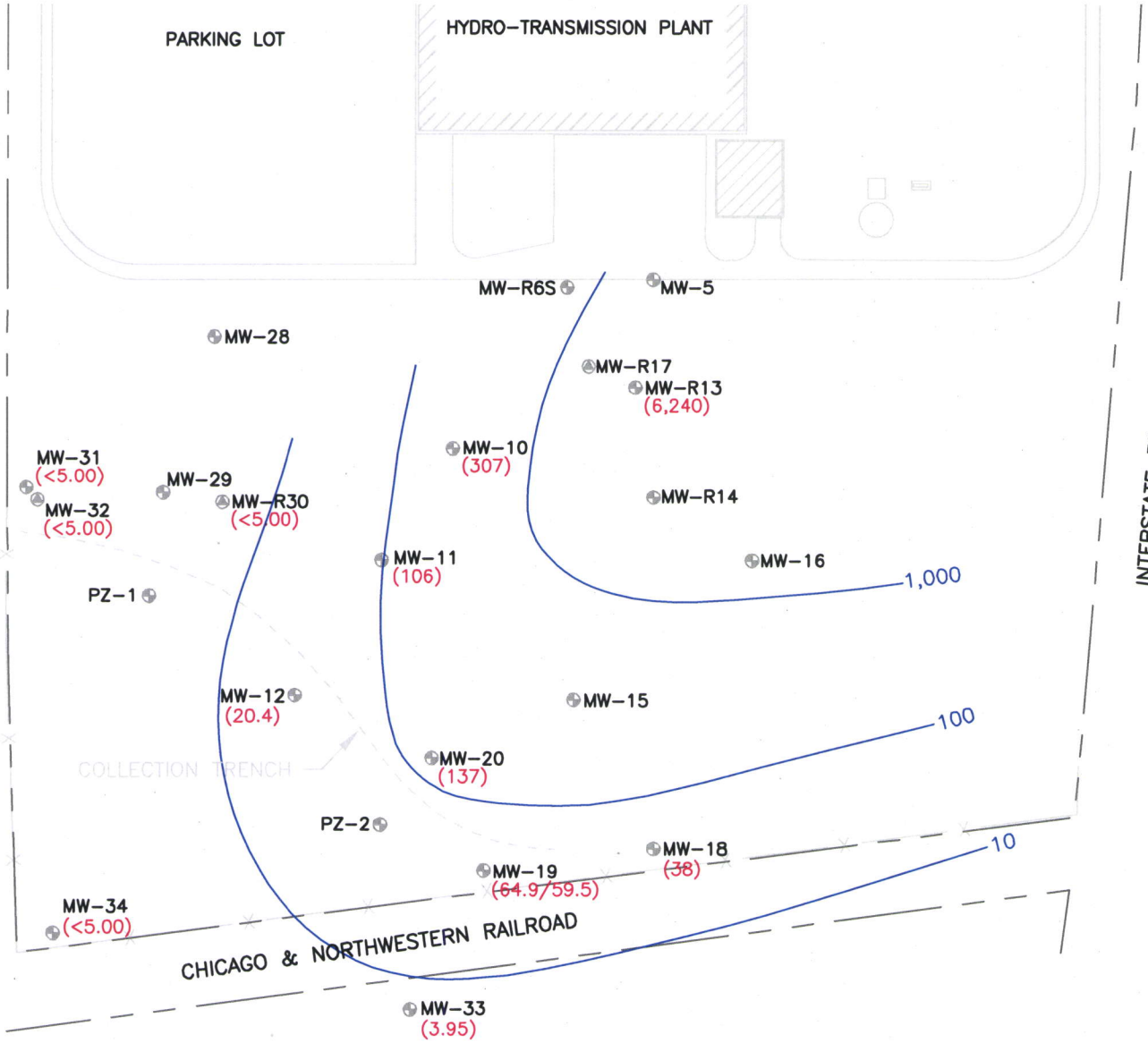

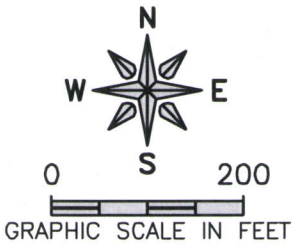

FIGURE 12

SHALLOW GROUNDWATER 1,1,1-TRICHLOROETHANE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,1,1-TRICHLOROETHANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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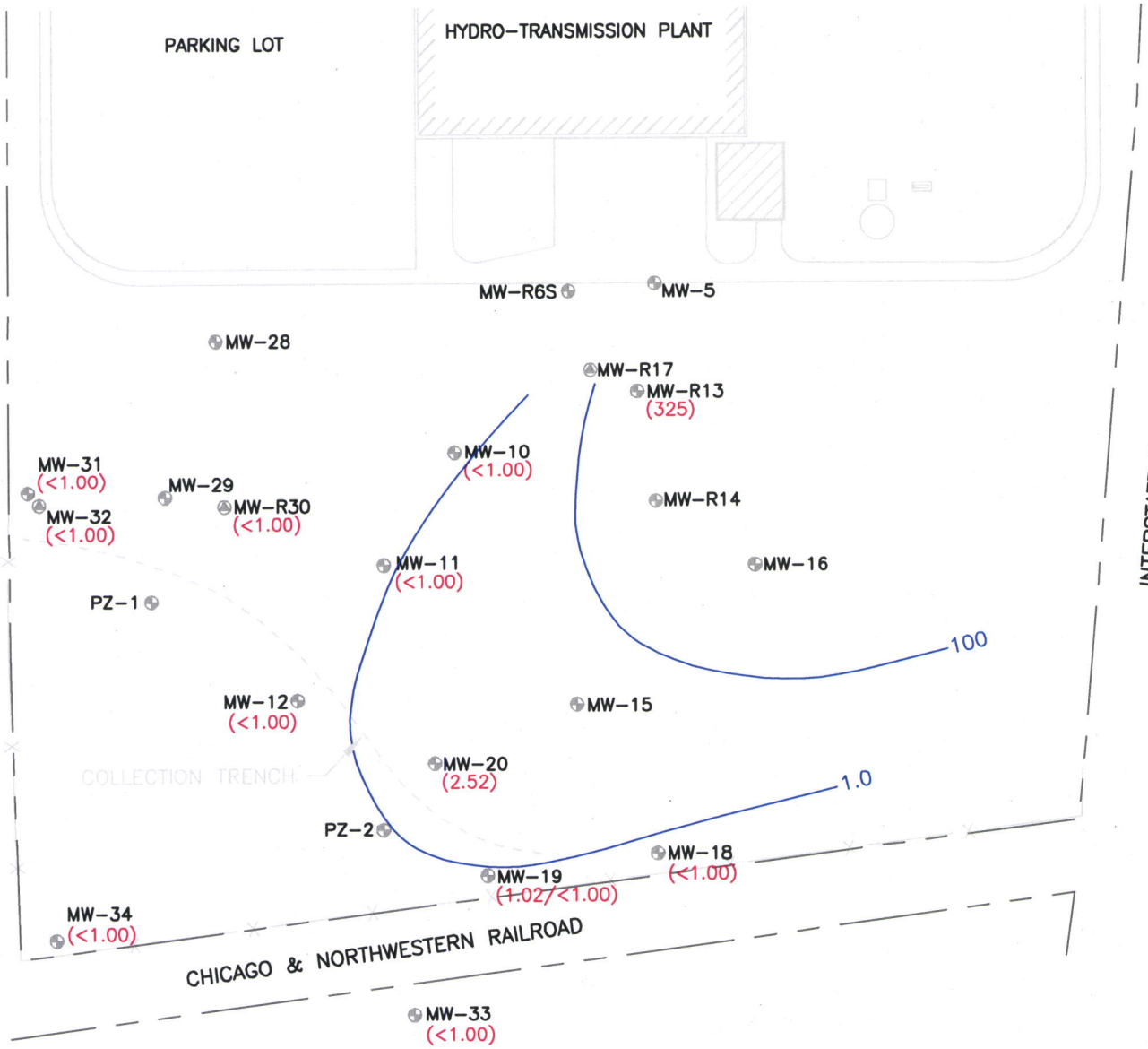

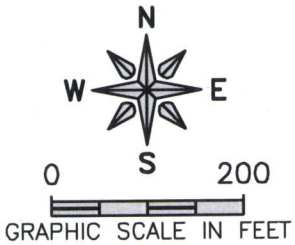

FIGURE 13

SHALLOW GROUNDWATER 1,1,2-TRICHLOROETHANE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

5/6/11

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,1,2-TRICHLOROETHANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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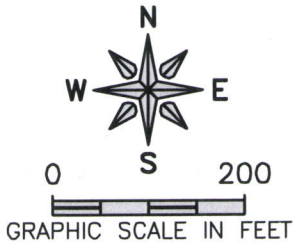

FIGURE 14

SHALLOW GROUNDWATER TRICHLOROETHENE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

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LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) TRICHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- (20) ISO-CONCENTRATION CONTOUR

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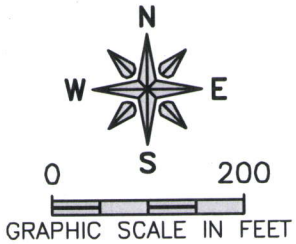

FIGURE 15

SHALLOW GROUNDWATER VINYL CHLORIDE CONCENTRATIONS OCTOBER 20, 2010 SAUER-DANFOSS FACILITY AMES, IOWA

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LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) VINYL CHLORIDE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L

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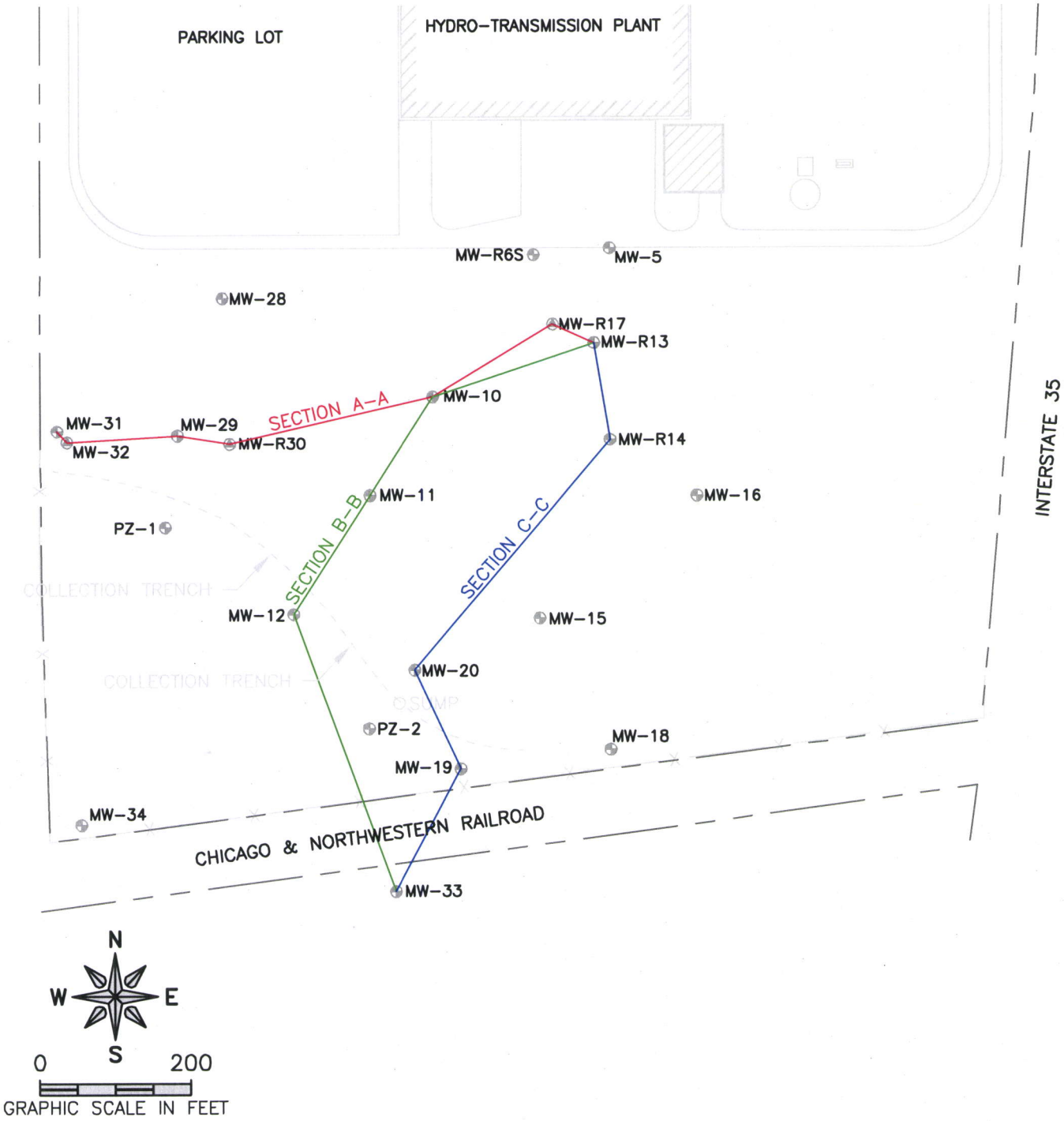

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL

FIGURE 16

CROSS SECTION MAP
SAUER-DANFOSS FACILITY
AMES, IOWA

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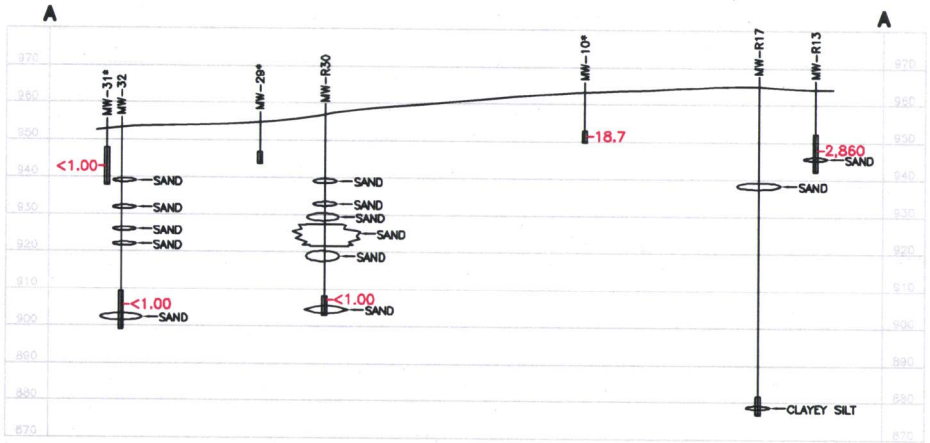

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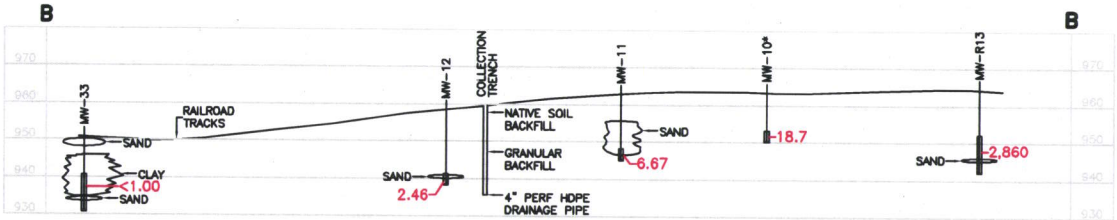

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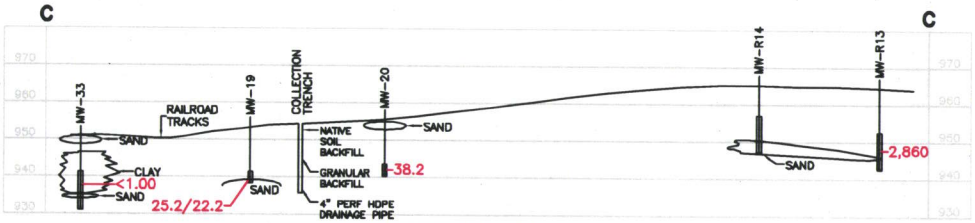

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 17

HYDROGEOLOGIC PROFILE
1,1–DICHLOROETHANE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
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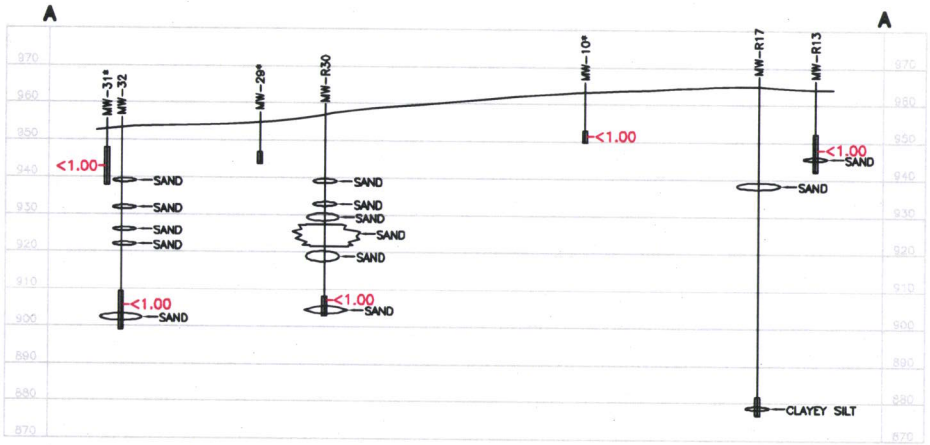

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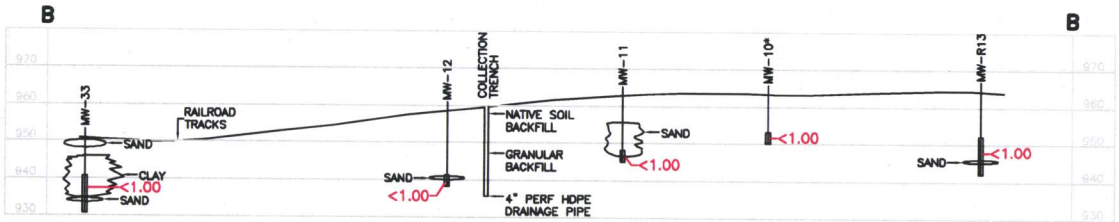

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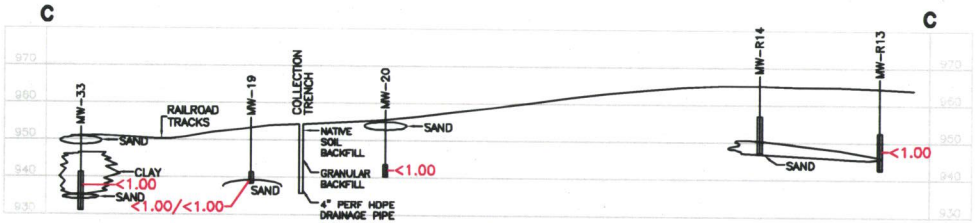

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 18

HYDROGEOLOGIC PROFILE
1,2–DICHLOROETHANE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
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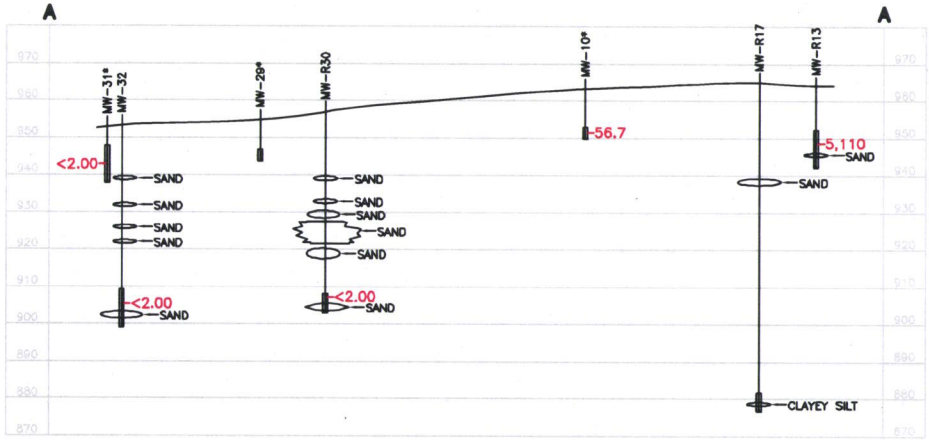

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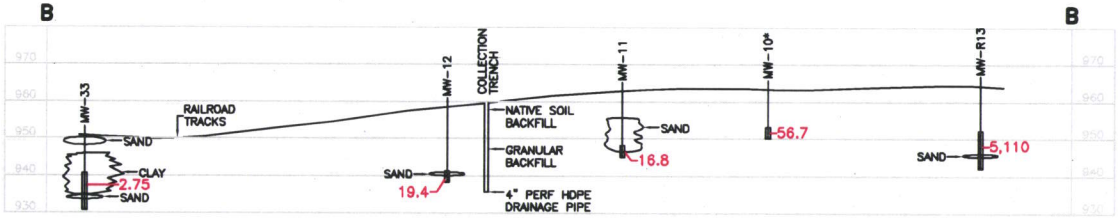

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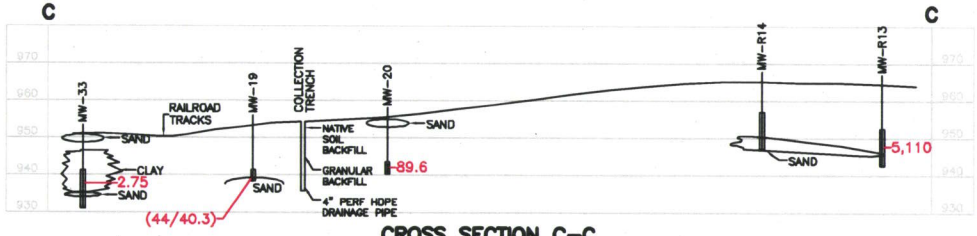

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 19

HYDROGEOLOGIC PROFILE
1,1–DICHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
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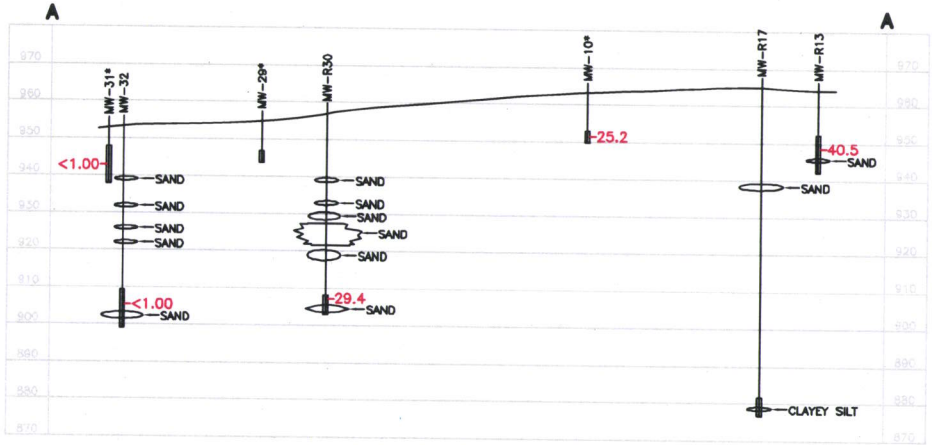

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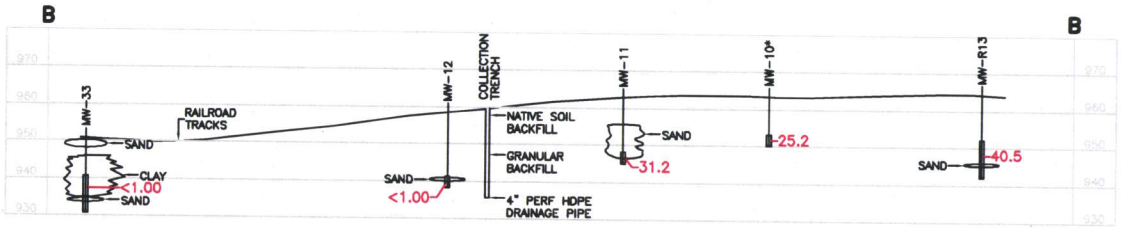

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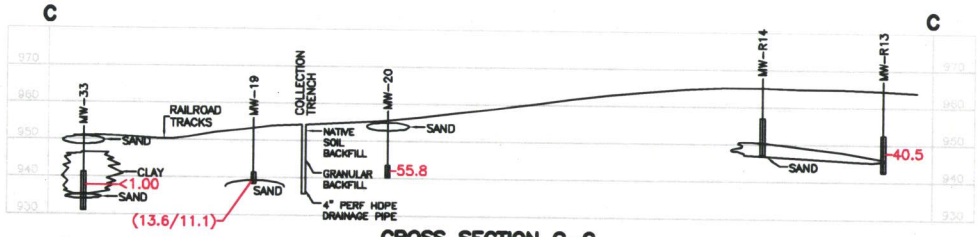

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 20

HYDROGEOLOGIC PROFILE
CIS-1,2-DICHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
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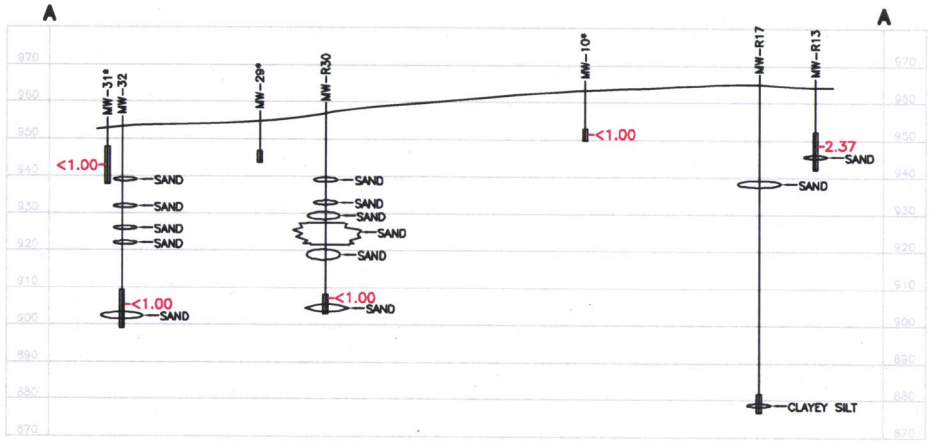

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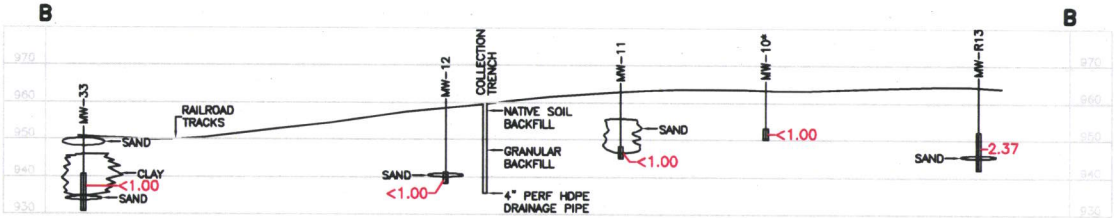

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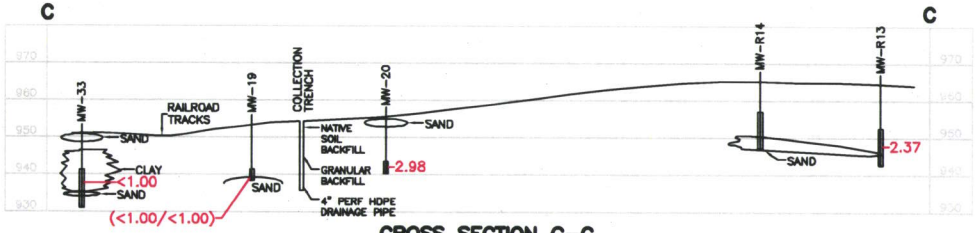

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 21

HYDROGEOLOGIC PROFILE
TRANS-1,2-DICHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
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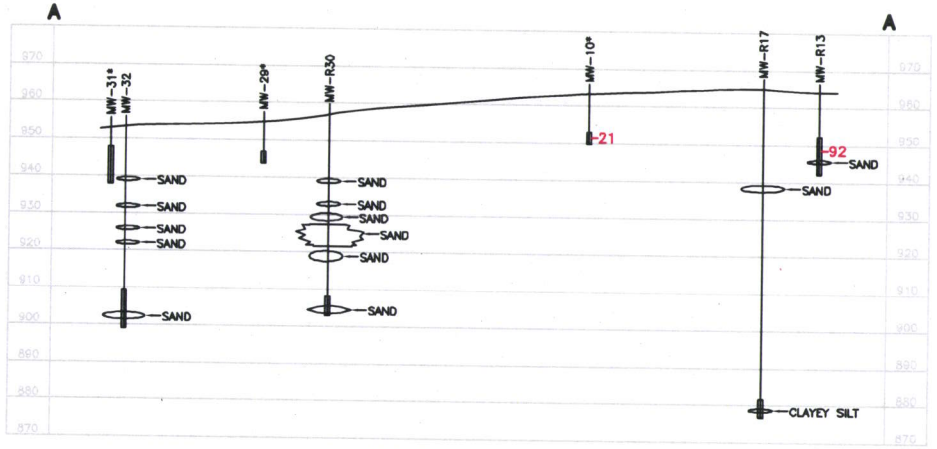

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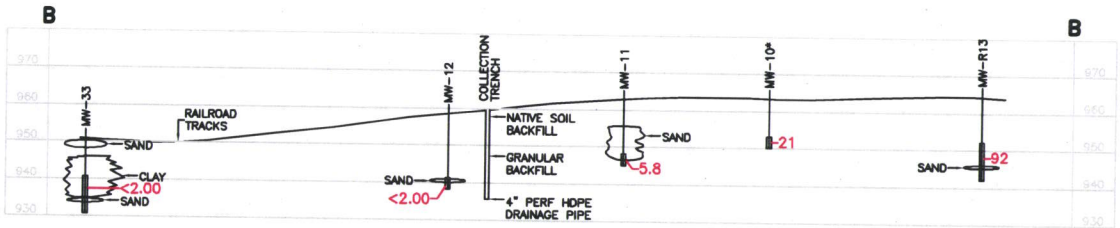

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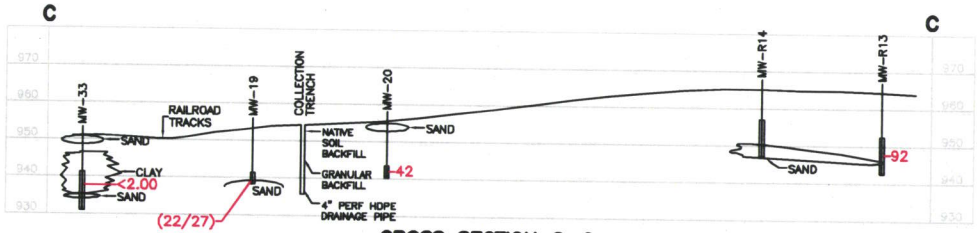

CROSS SECTION C-C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 22

HYDROGEOLOGIC PROFILE
1,4-DIOXANE CONCENTRATIONS
OCTOBER 20, 2010
SAUER-DANFOSS FACILITY
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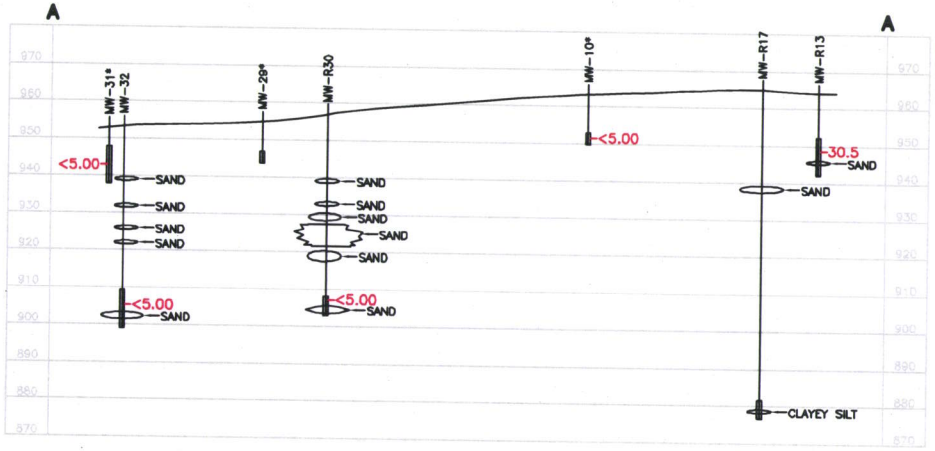

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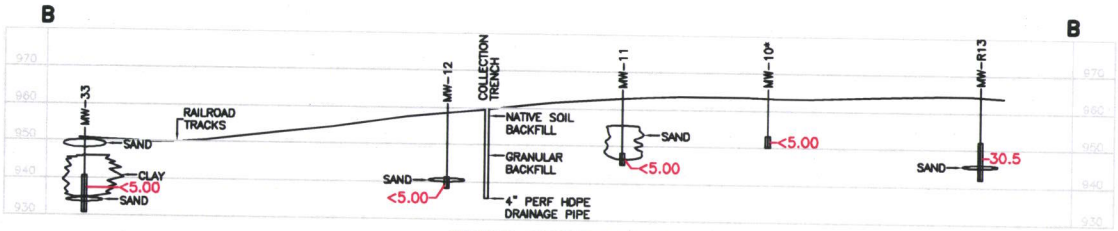

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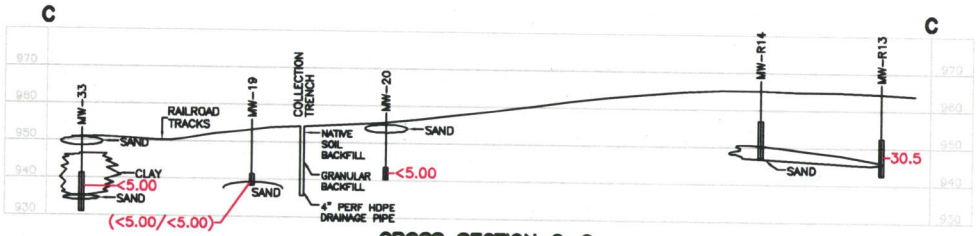

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 23

HYDROGEOLOGIC PROFILE
METHYLENE CHLORIDE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
AMES, IOWA

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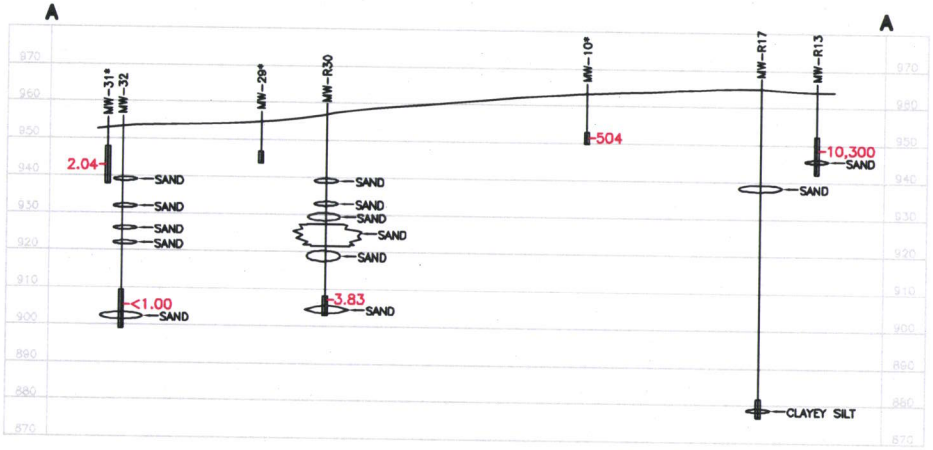

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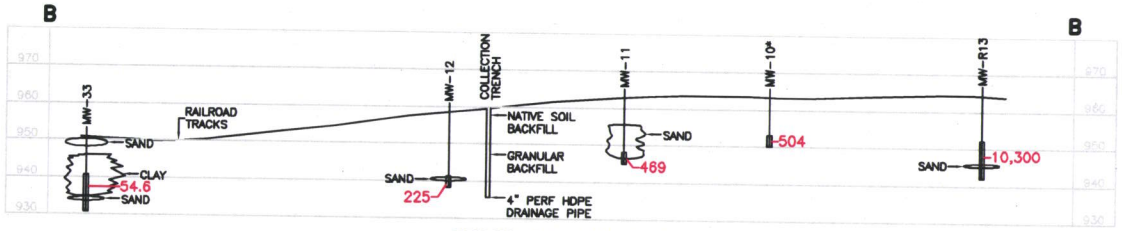

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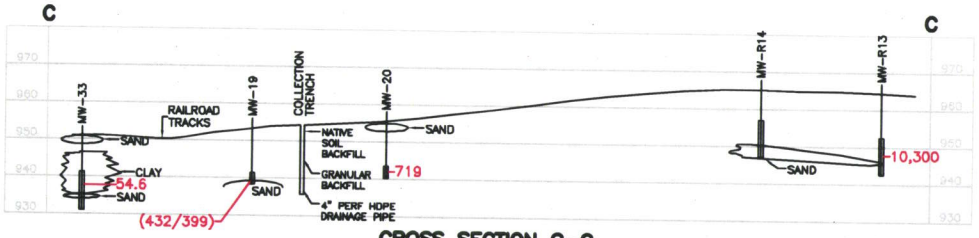

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 24

HYDROGEOLOGIC PROFILE
TETRACHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
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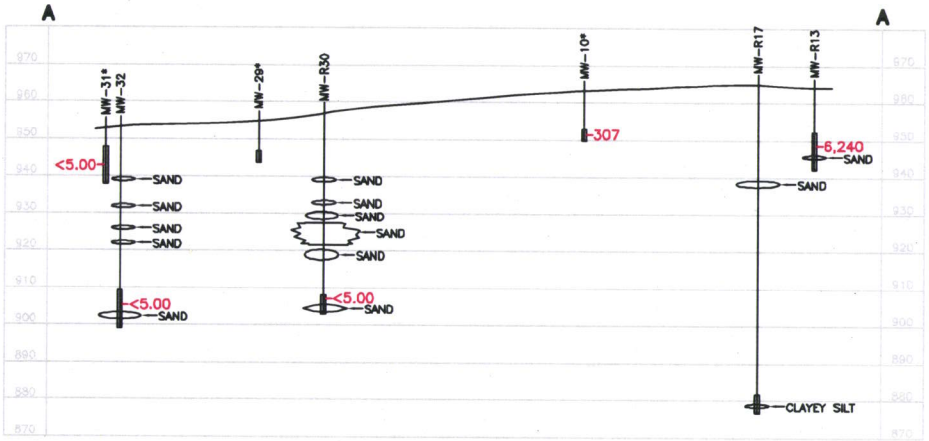

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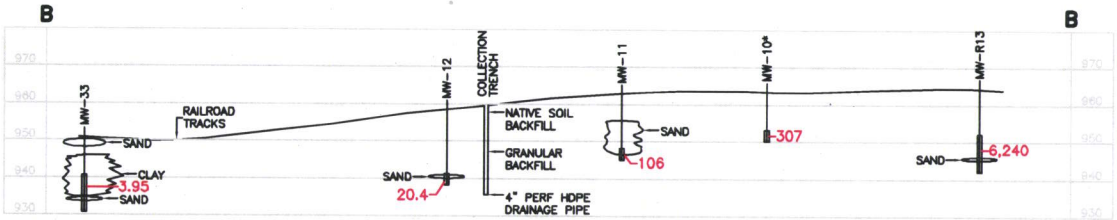
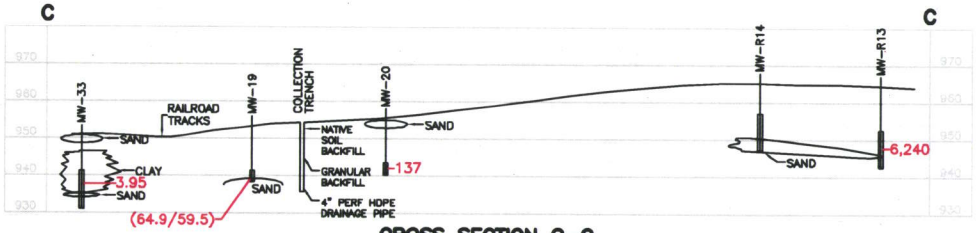


CROSS SECTION B–B



CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 25

HYDROGEOLOGIC PROFILE
1,1,1–TRICHLOROETHANE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
AMES, IOWA

5/6/11

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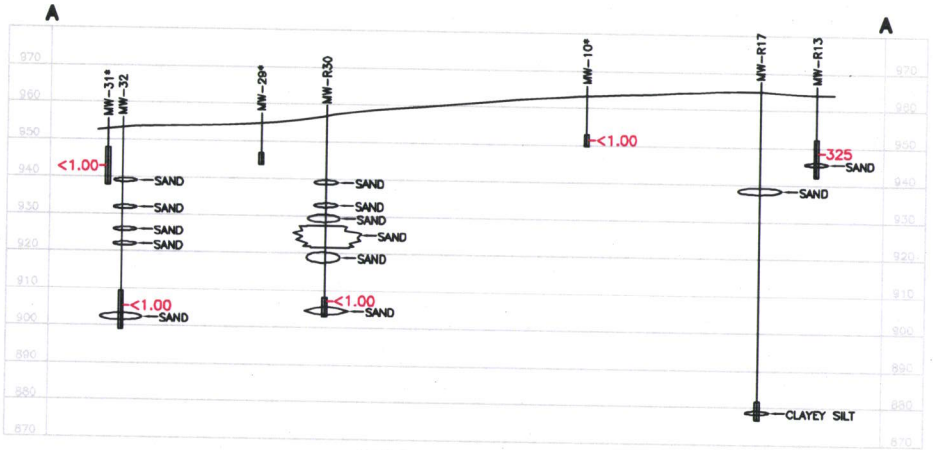
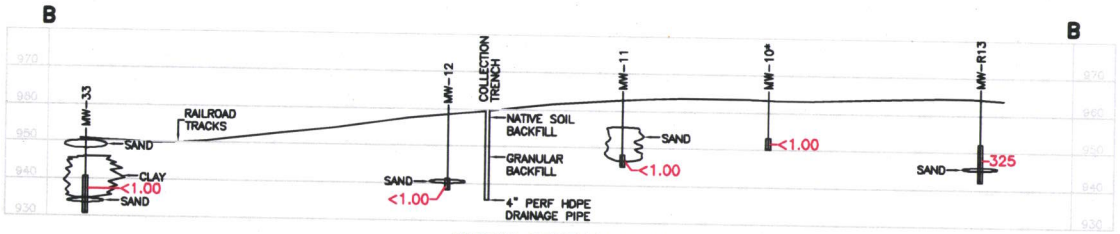
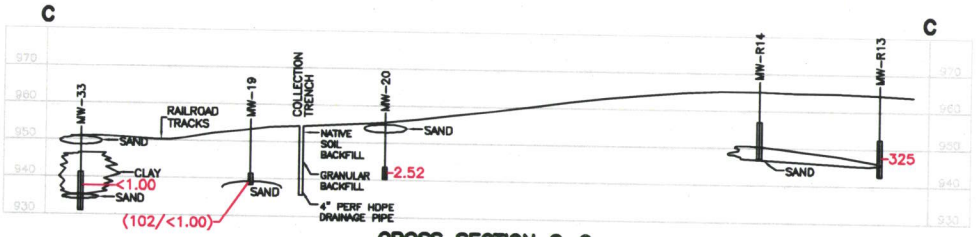


CROSS SECTION A–A



CROSS SECTION B–B



CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 26

HYDROGEOLOGIC PROFILE
1,1,2–TRICHLOROETHANE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
AMES, IOWA

5/6/11

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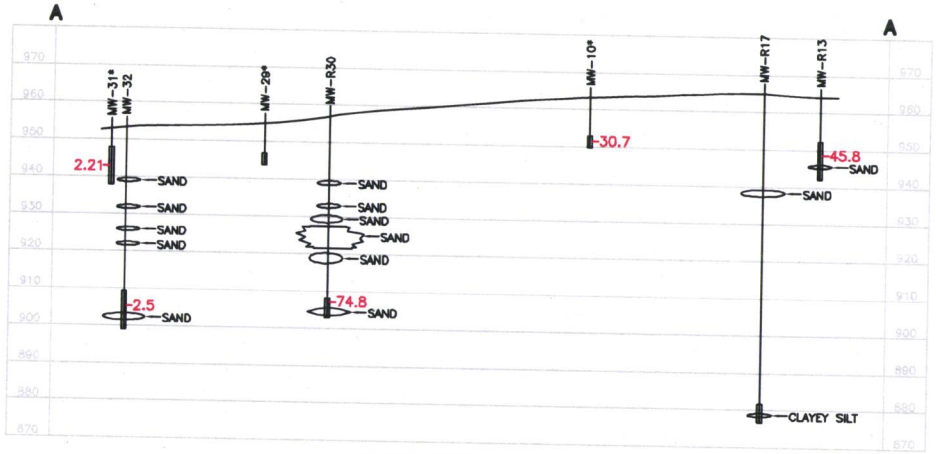
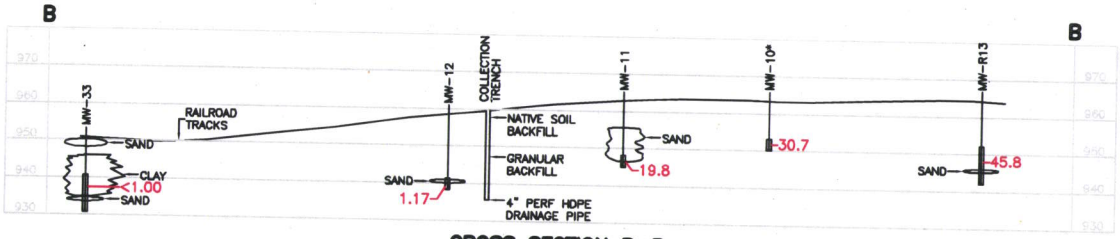


CROSS SECTION A-A



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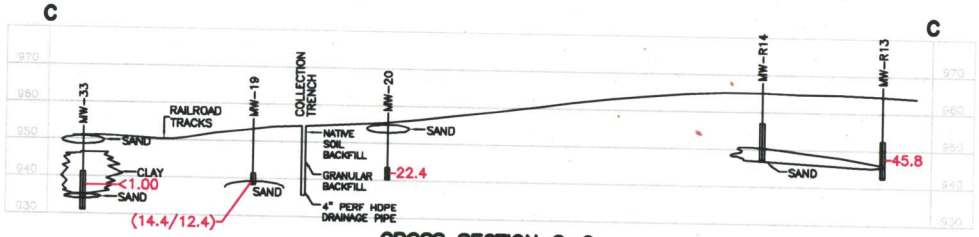

CROSS SECTION C-C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 27

HYDROGEOLOGIC PROFILE
TRICHLOROETHENE CONCENTRATIONS
OCTOBER 20, 2010
SAUER-DANFOSS FACILITY
AMES, IOWA

5/6/11

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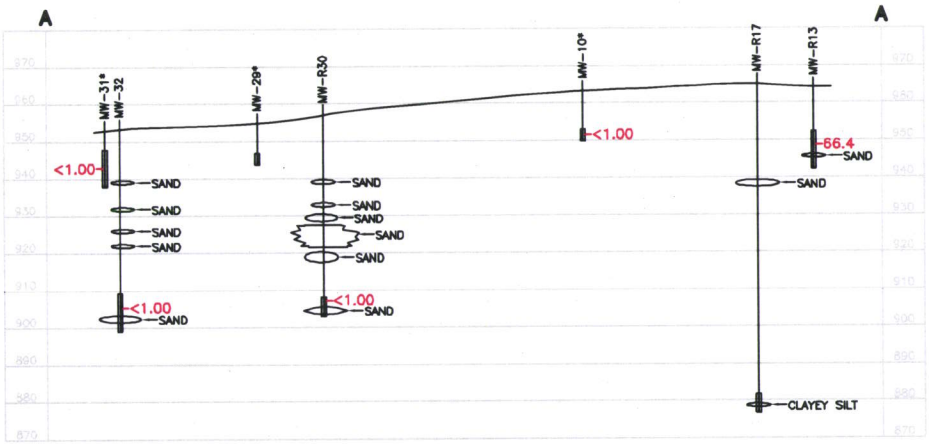

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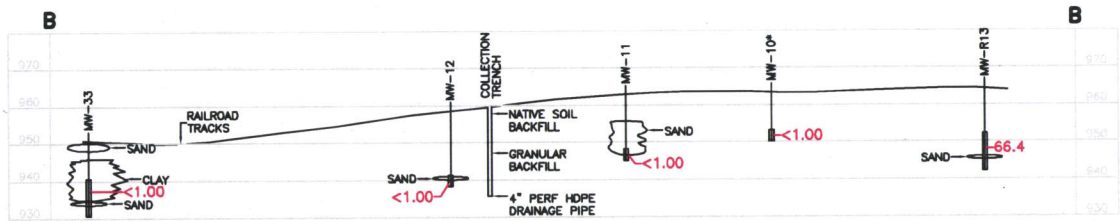

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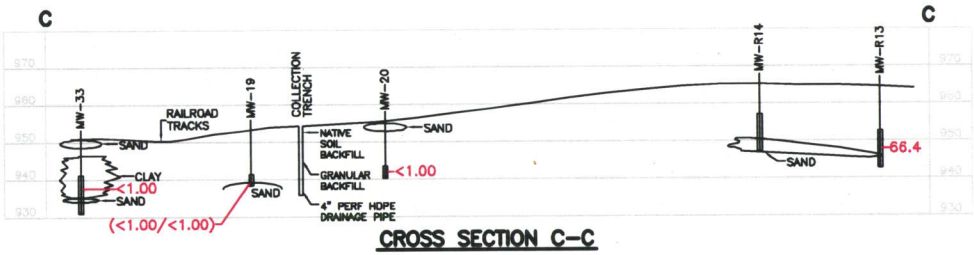

CROSS SECTION C–C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

SCALE

HORZ. 1" = 200'
VERT. 1" = 50'

FIGURE 28

HYDROGEOLOGIC PROFILE
VINYL CHLORIDE CONCENTRATIONS
OCTOBER 20, 2010
SAUER–DANFOSS FACILITY
AMES, IOWA

5/6/11

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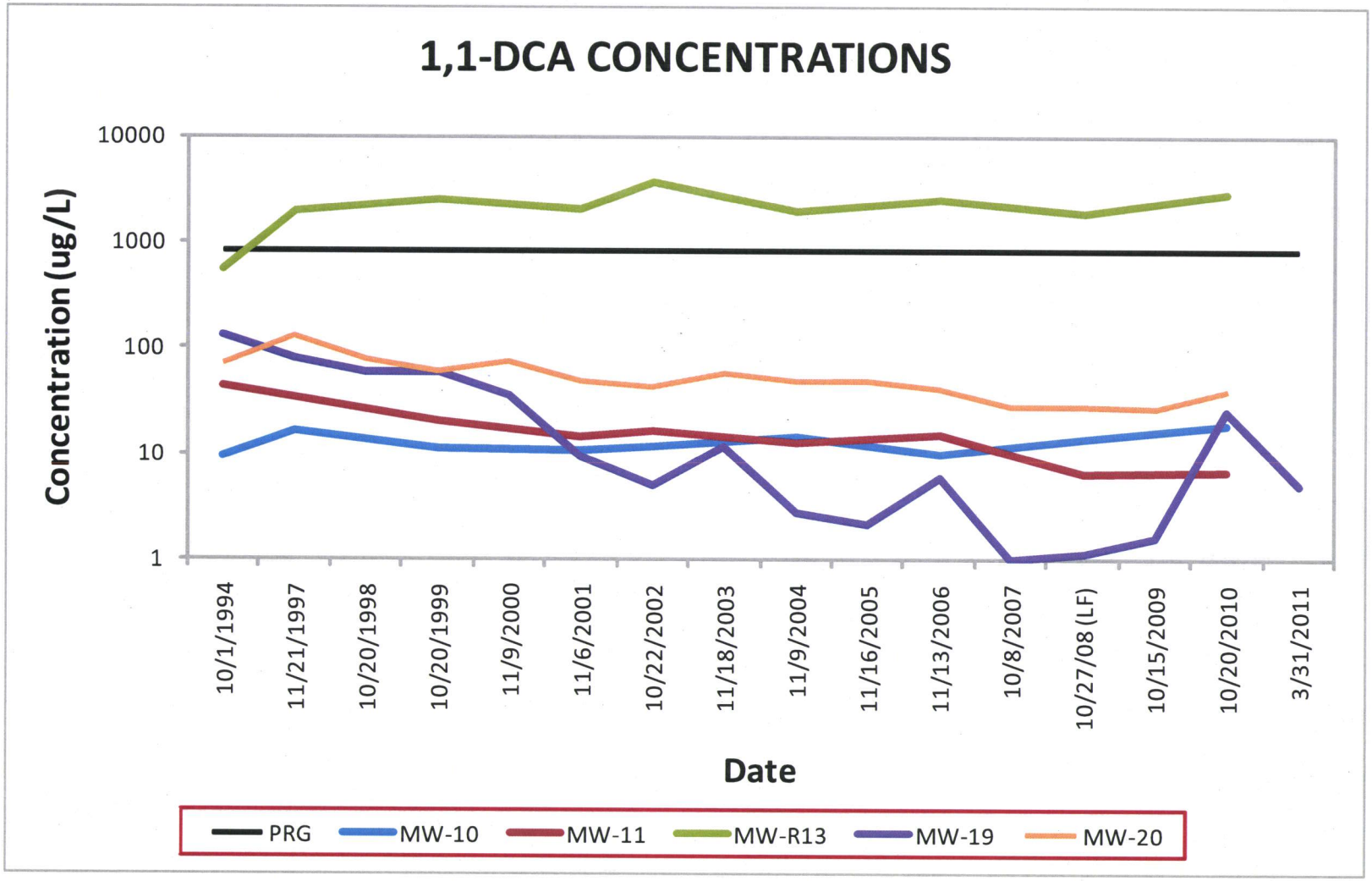

FIGURE 29

1,1–DCA CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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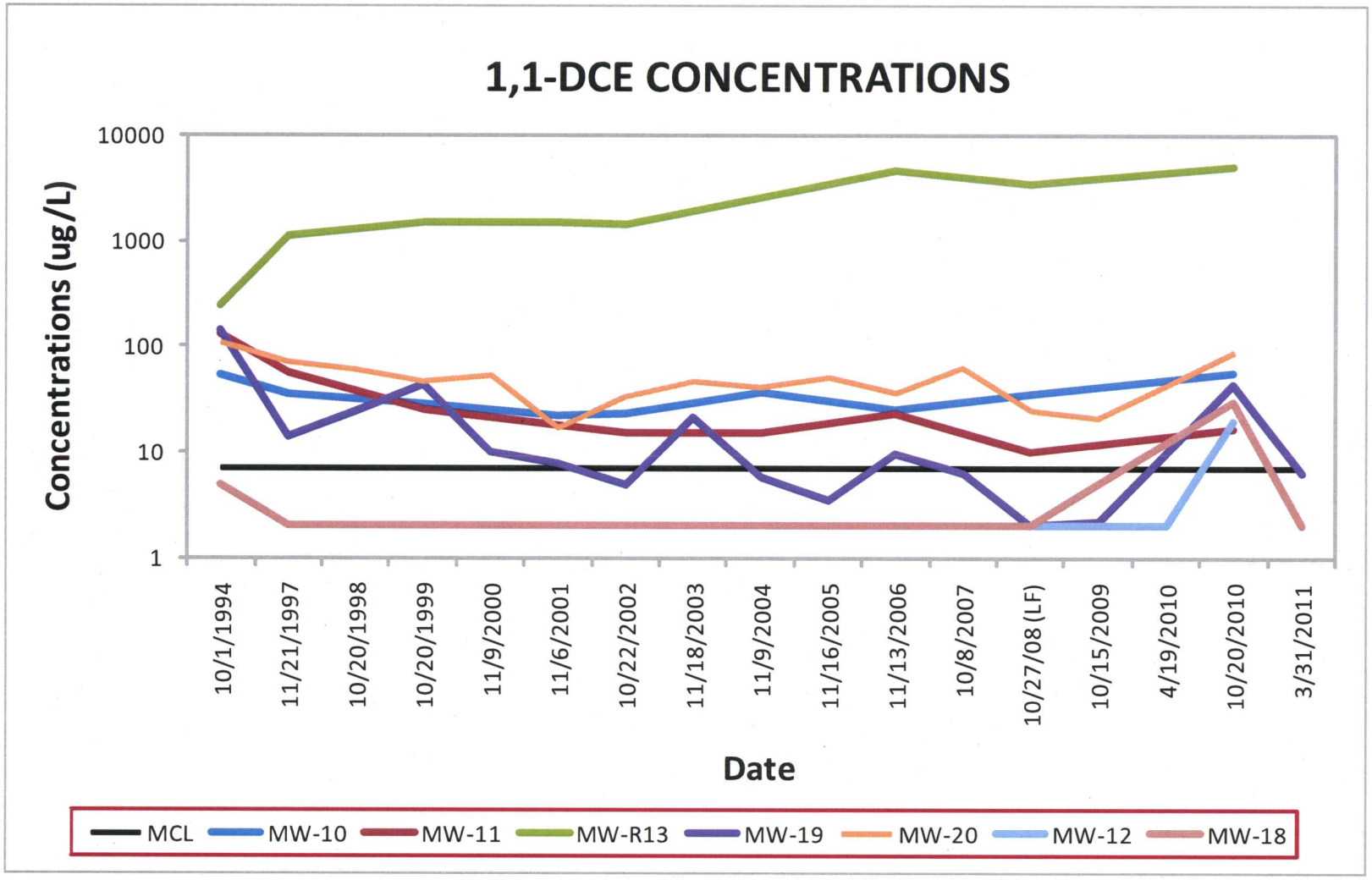

FIGURE 30

1,1–DCE CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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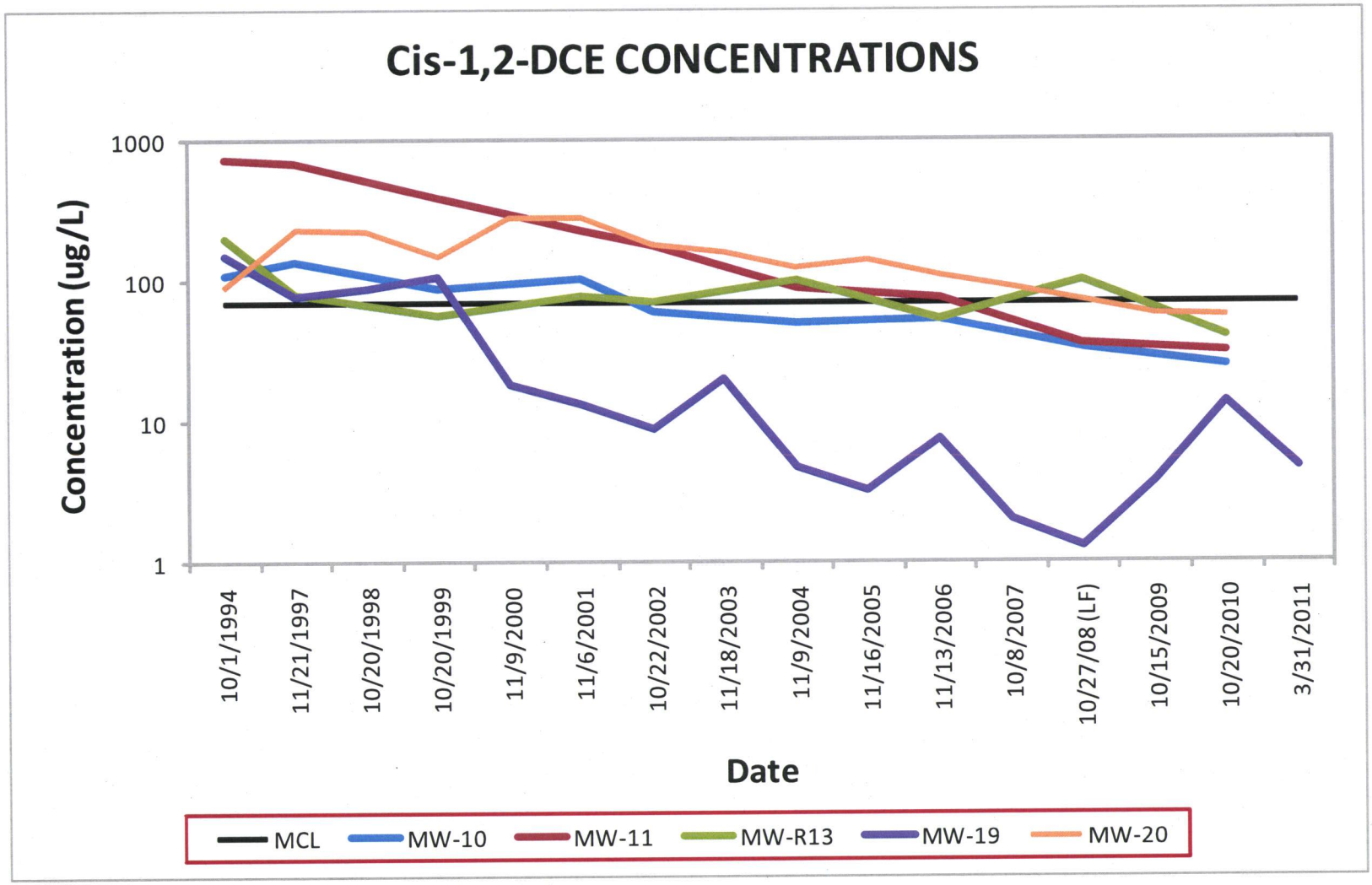

FIGURE 31

CIS-1,2-DCE CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

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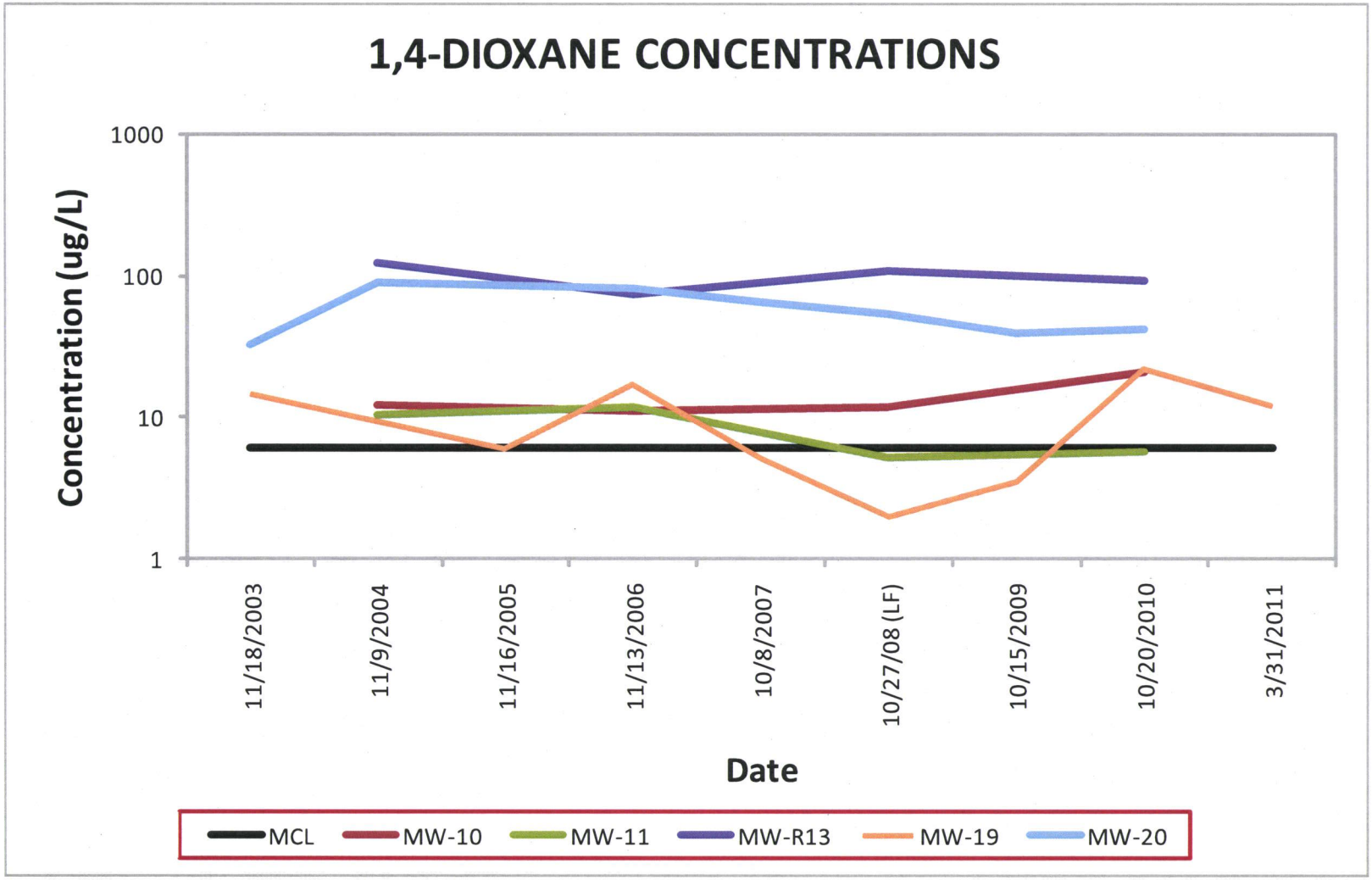

FIGURE 32

1,4–DIOXANE CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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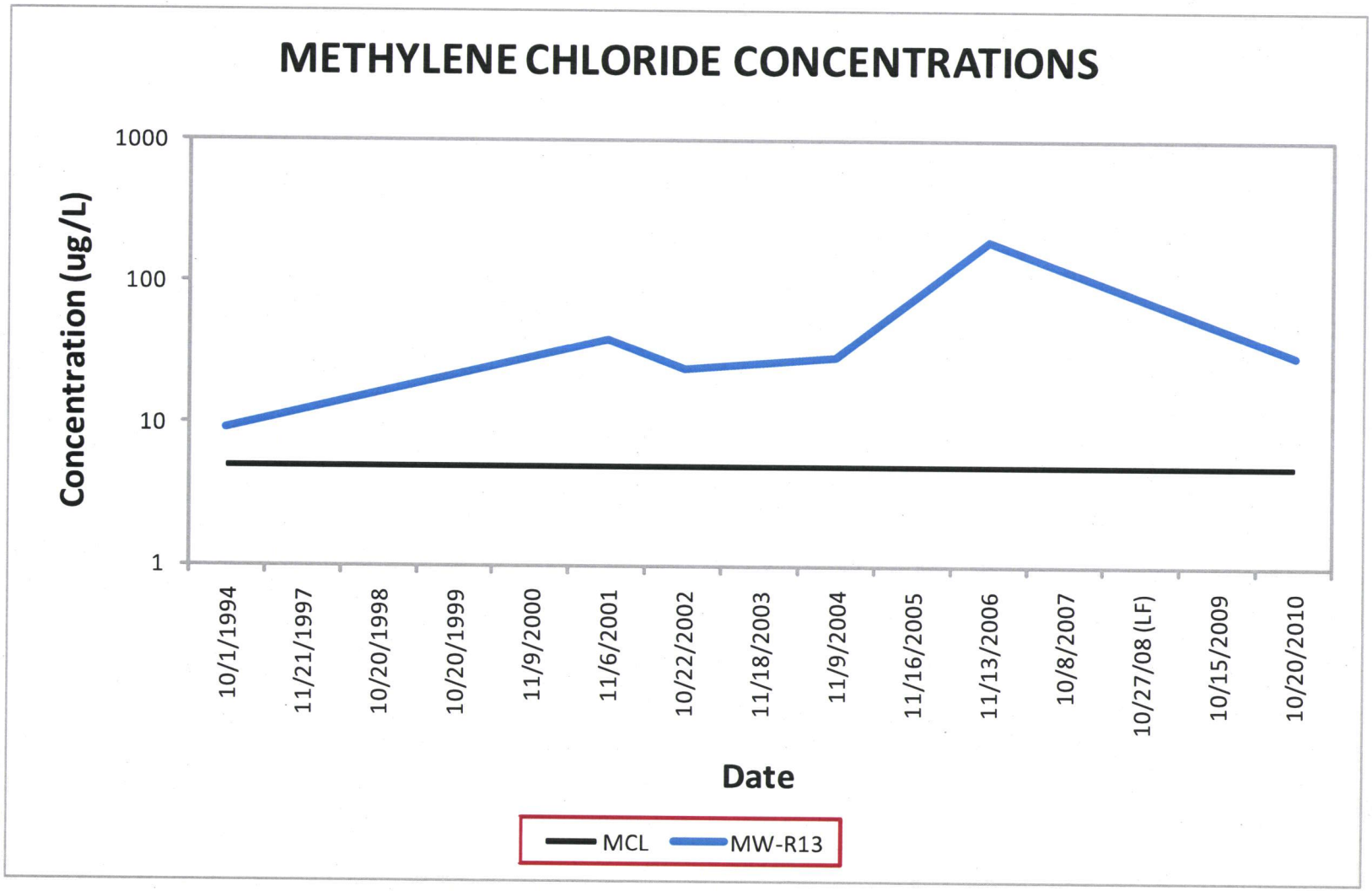

FIGURE 33

METHLENE CHLORIDE CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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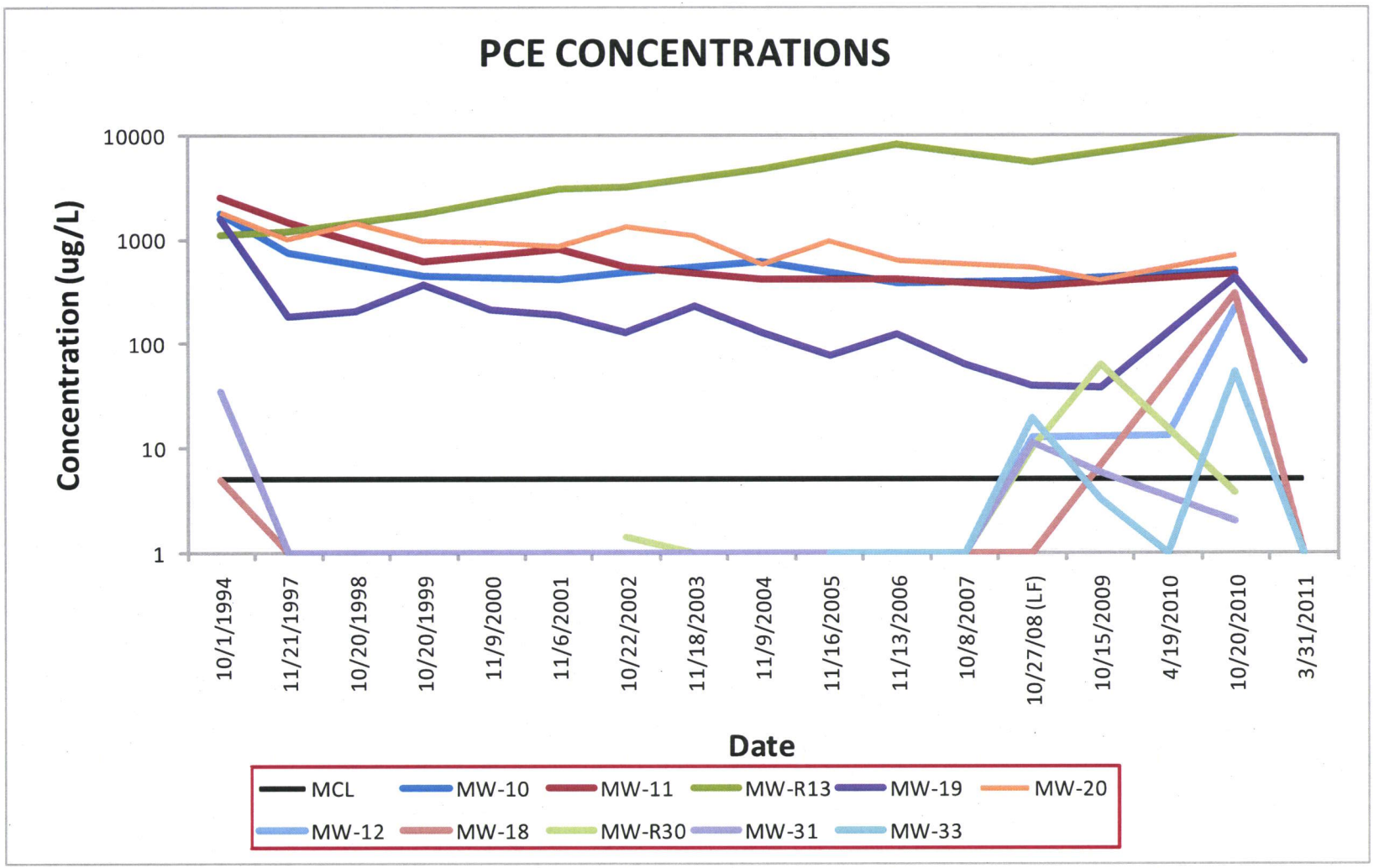

FIGURE 34

PCE CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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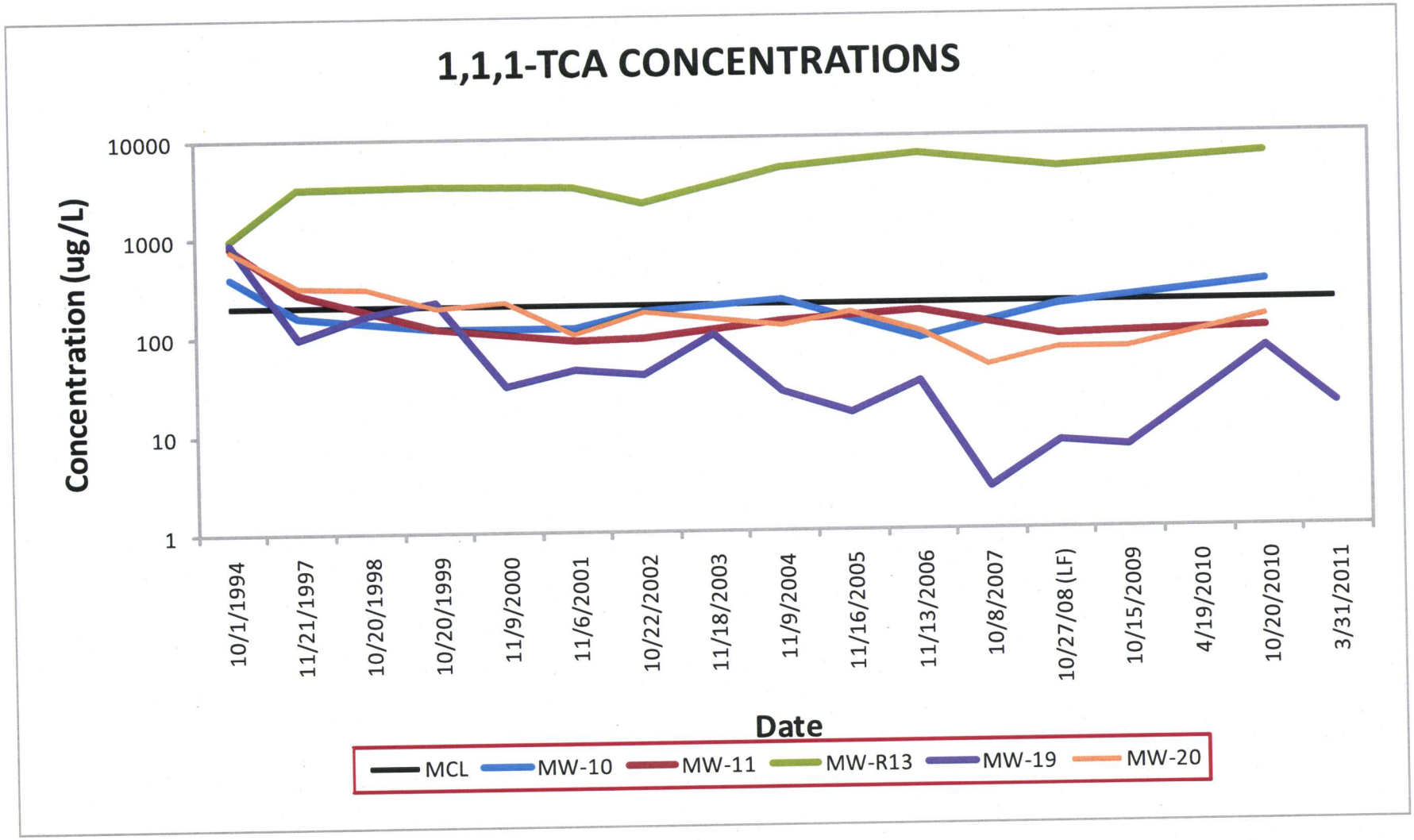

FIGURE 35

1,1,1–TCA CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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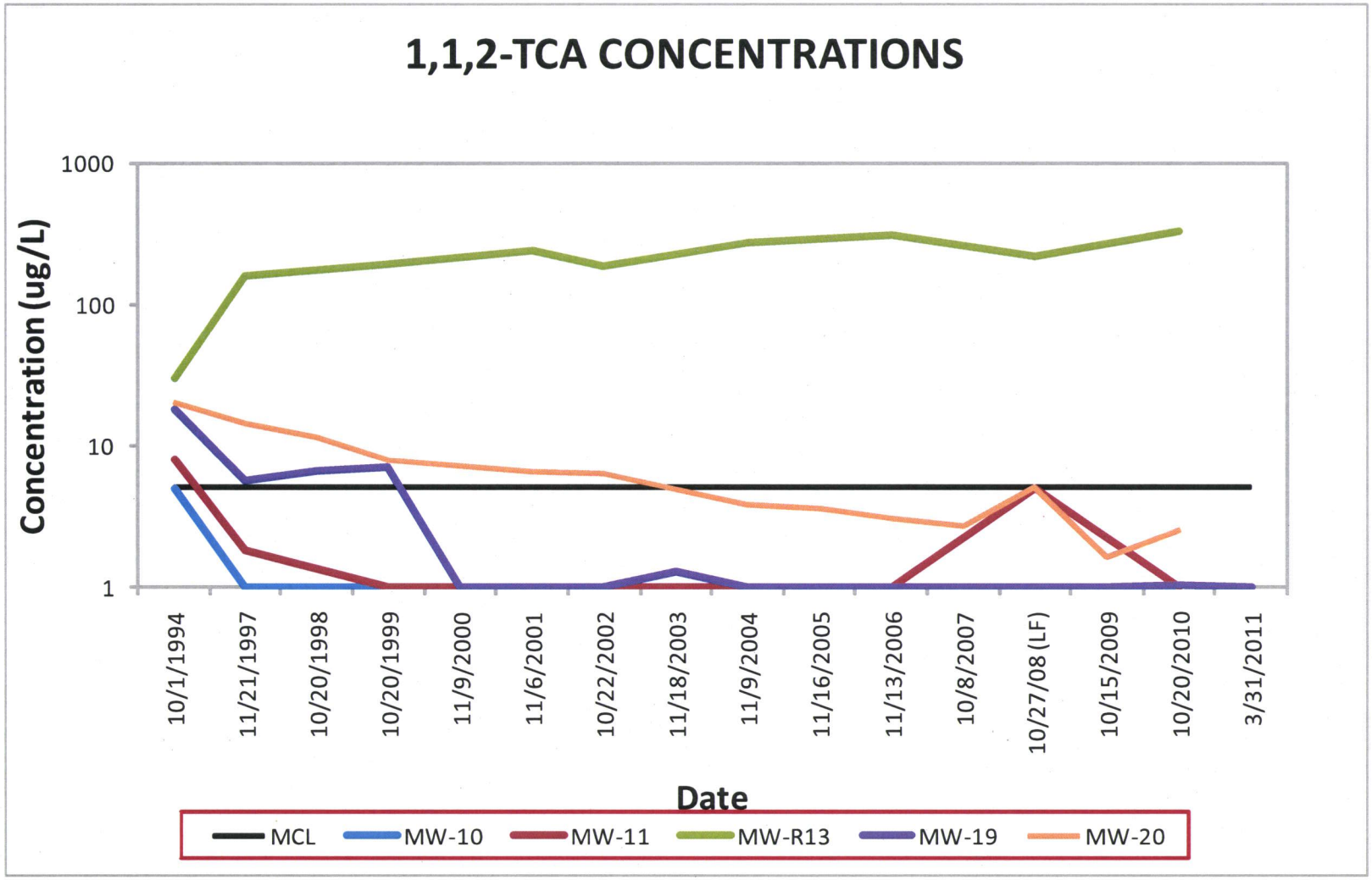

FIGURE 36

1,1,2–TCA CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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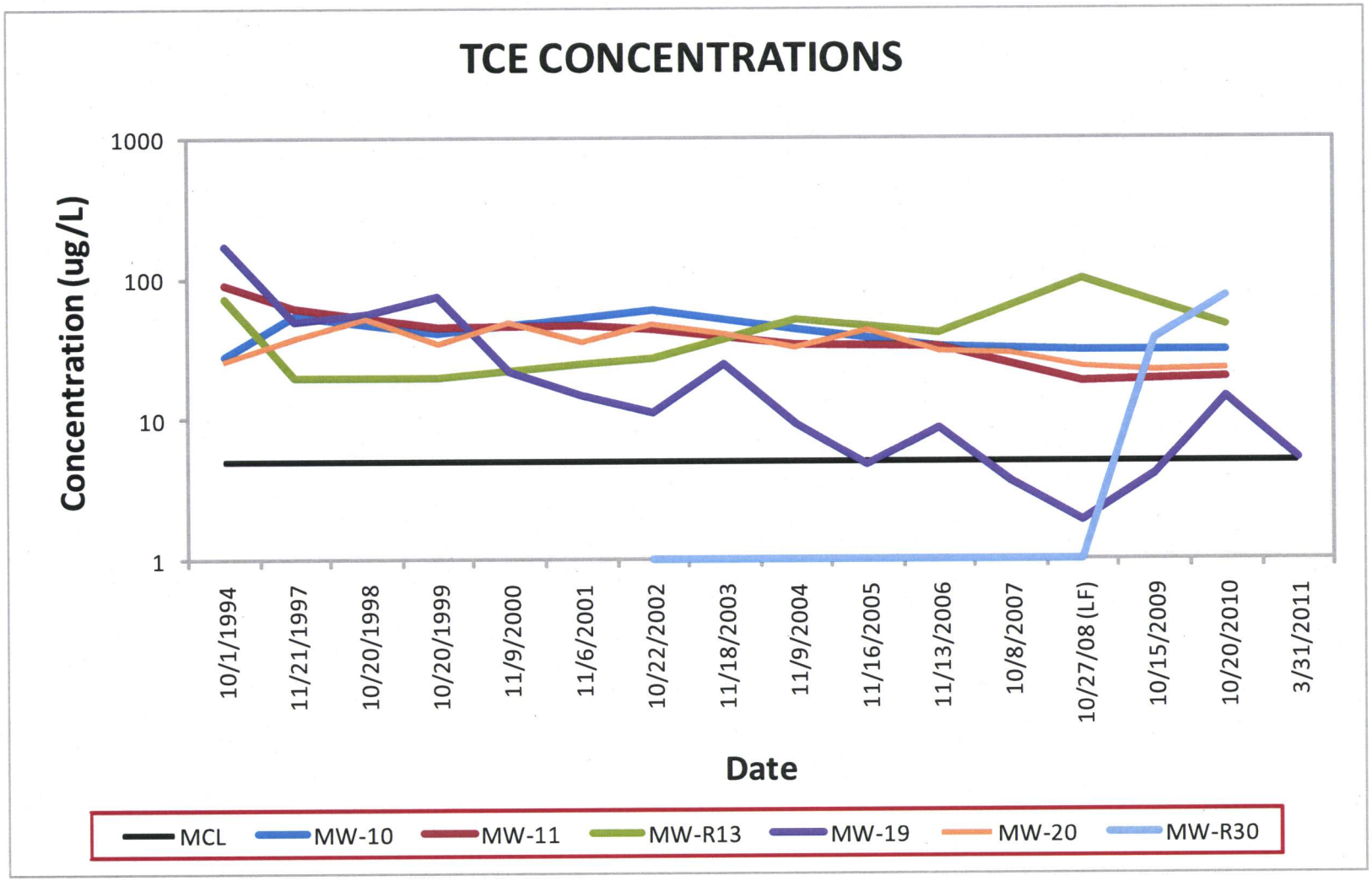

FIGURE 37

TCE CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

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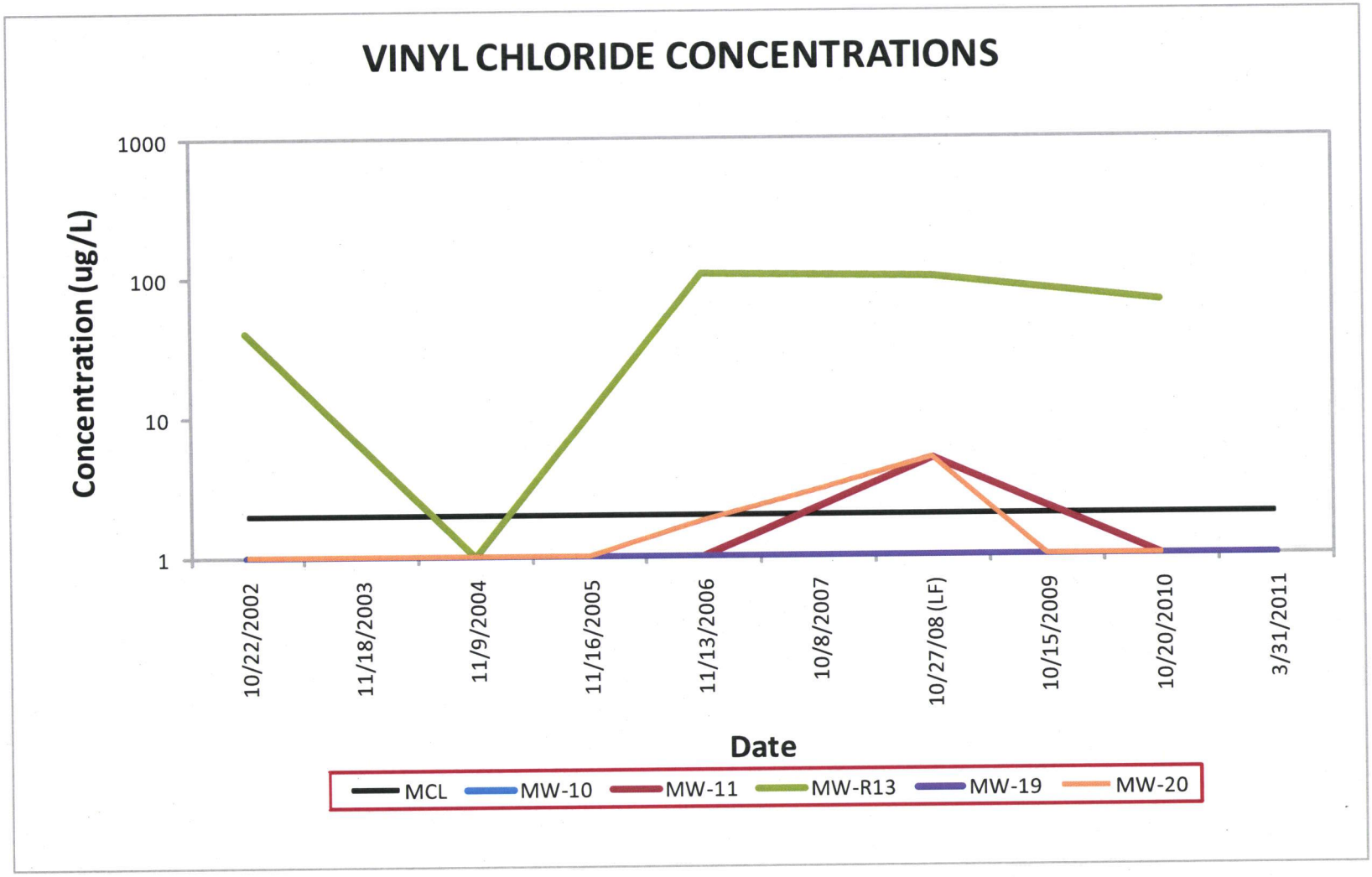

FIGURE 38

VINLY CHLORIDE CONCENTRATIONS
SAUER–DANFOSS FACILITY
AMES, IOWA

5/6/11

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ENGINEERING AND SCIENCE CONSULTANTS
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ATTACHMENTS

ATTACHMENT 1

2010 Semiannual Remedial System Maintenance Memorandums

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil • Surveying • EHS • Municipal • IT

MEMORANDUM

TO: **Gary Erickson**

FROM: **Ken Thompson**

SUBJECT: SEMIANNUAL REMEDIAL SYSTEM MAINTENANCE, 10-233

DATE: May 11, 2010

The semiannual groundwater remedial system maintenance was conducted on May 11. 2010, by Daniel Stoehr of FGA and Brian Christiansen of Mechanical Comfort, Inc. Maintenance activities are summarized below:

- Operation of the standpipe level sensor was confirmed in the manual operating mode by closing the valve on the standpipe and filling the standpipe with water. The pump was deactivated once the water level reached the level sensor.

- The transducer installation was measured at 19 feet, 3 inches (bottom of sensor/transducer to top of casing pipe, which is marked with a white plastic zip tie around the sensor cable), equal to the original installed depth of 19 feet, 3 inches.

- The sump water level was measured at 68 inches above the bottom of the transducer. The corresponding reading displayed by the computer controller was 64.48 inches. The computer controller was not recalibrated to correct the 3.52-inch difference between the measured water level and that displayed by the computer controller.

- The sump was probed for sediment. The sump depth, as measured from the sump cover, was 22.25 feet, 2.05 feet less than the original measurement in January 1998 (24.3 feet). The bottom of the sump is currently 0.95 feet below the incoming interception trench drainage pipe (21.3 feet).

- The inside and outside air temperatures displayed by the computer controller were confirmed with a Fluke 87 RMS multimeter. The inside air temperature was measured at 81.0 degrees Fahrenheit, compared with a computer controller reading of 80.9 degrees Fahrenheit. The outside air temperature was measured at 49.7 degrees Fahrenheit, compared with a computer controller reading of 46.5 degrees Fahrenheit. The controller was adjusted 3 degrees to match outside air temperature.

- The water temperature was measured at 50.5 degrees Fahrenheit with a thermometer, compared with a computer controller reading of 49.0 degrees Fahrenheit.

No adjustments or repairs are recommended based on this semiannual maintenance event. The next semiannual maintenance will be conducted during the 4th quarter of 2010.

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil • Surveying • EHS • Municipal • IT

MEMORANDUM

TO: **Gary Erickson**

FROM: **Ken Thompson**

SUBJECT: SEMIANNUAL REMEDIAL SYSTEM MAINTENANCE, 10-233

DATE: October 26, 2010

The semiannual groundwater remedial system maintenance was conducted on October 26, 2010, by Daniel Stoehr of FGA and Brian Christiansen of Mechanical Comfort, Inc. Maintenance activities are summarized below:

- Operation of the standpipe level sensor was confirmed in the manual operating mode by closing the valve on the standpipe and filling the standpipe with water. The pump was deactivated once the water level reached the level sensor.

- The transducer installation was measured at 19 feet, 3 inches (bottom of sensor/transducer to top of casing pipe, which is marked with a white plastic zip tie around the sensor cable), equal to the original installed depth of 19 feet, 3 inches.

- The sump water level was measured at 64.8 inches above the bottom of the transducer. The corresponding reading displayed by the computer controller was 66.6 inches. The computer controller was not recalibrated to correct the 1.8-inch difference between the measured water level and that displayed by the computer controller.

- The sump was probed for sediment. The sump depth, as measured from the sump cover, was 22.3 feet, 2.0 feet less than the original measurement in January 1998 (24.3 feet). The bottom of the sump is currently 1.0 feet below the incoming interception trench drainage pipe (21.3 feet).

- The inside and outside air temperatures displayed by the computer controller were confirmed with a Fluke 87 RMS multimeter. The inside air temperature was measured at 76.0 degrees Fahrenheit, compared with a computer controller reading of 76.0 degrees Fahrenheit. The outside air temperature was measured at 47.0 degrees Fahrenheit, compared with a computer controller reading of 44.3 degrees Fahrenheit. The controller was adjusted 3 degrees to match outside air temperature.

- The water temperature was measured at 57.4 degrees Fahrenheit with a thermometer, compared with a computer controller reading of 57.0 degrees Fahrenheit.

No adjustments or repairs are recommended based on this semiannual maintenance event. The next semiannual maintenance will be conducted during the 2nd quarter of 2011.

ATTACHMENT 2

2010 Quarterly Monitoring Reports

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

Civil • Surveying • Municipal • Structural • EHS • IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

UPS Overnight Tracking Number: 1Z 651 395 01 4993 6432

April 12, 2010

FILE COPY

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 1st Quarter 2010

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy. If satisfactory sign and date where indicated. **A hardcopy of the entire report must be received by the City of Ames no later than April 16, 2010.** In order to accomplish this, please complete the following as soon as possible upon receipt of this document:

- Fax a signed copy of the report form only to Matt Hawes at 515-239-5251.
- Mail one copy of the entire report, along with the enclosed cover letter to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed.
- Retain two additional copies and I will file when on-site on April 14, 2010.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2010\10-313\DMS 10-313 - 1st Qrtr Wastewater to City of Ames.doc
Enclosure

Recycled Paper

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Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

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221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

FILE COPY

CERTIFIED MAIL NUMBER: 7009 2250 0003 3276 0983
RETURN RECEIPT REQUESTED

April 13, 2010

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 1st Quarter 2010
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir/Madam:

Enclosed, please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 1st quarter of 2010. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively and a summary of monthly flow in gals/month from the groundwater remediation project.

A signed copy of the report was faxed to your attention on April 13, 2010.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2010\10-313\DMS 10-313 - 1st Qrtr Wastewater to City of Ames.doc
Enclosure

cc: Sauer-Danfoss (with enclosure)

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Non-Domestic Waste Pretreatment Program
Quarterly Report
(Non-Significant, Non-Domestic Contributor)
1st Quarter 2010
Reporting Period: 1/1/2010 to 3/31/2010
Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
Permit No: 6593-7
Facility Contact: Gary Erickson
Facility Phone No: 515-239-6000
Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment Sample Port (GW Remediation)
Sample Type: Grab & 24 Hour Composite
Sample Date: **2/19/10 (GW Remediation)/ 2/16/10 (Wastewater)**

Analyte	Permit Limit Mg/L	Sample Results Mg/L
Facility	Sauer Danfoss 2800 East 13th	
Flow	Gals/Day	24,140
pH	6-10 pH	8.30
TSS	1,500	95
Cyanide	0.55	0.01
Ammonia (NH3)	200	16
Total Kjeldahl Nitrogen (TKN)	250	38
Oil & Grease	300	39
CBOD 5	1,500	228
COD	2,500	855
Molybdenum	0.19	0.03
GW remediation	**Max Expected Concentration ug/L**	ug/L
Flow (remediation)	Gals/Qrtr	926,559
Acetone	44	<5.0
1,1-Dichloroethane	370	5
1,1-Dichloroethene	170	7.5
cis- 1,2-Dichloroethene	490	28
Tetrachloroethene	1700	280
1,1,1-Trichloroethane	650	27
Trichloroethene	110	12
Total Xylenes	11	<2.0

Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: Please see attached for Groundwater Remediation Flow Data

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person (s) who manage the system, or those persons directly responsible for gathering the information, the information is, the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed Gary Erickson Date 04-14-10
Authorized Representative

Keystone
LABORATORIES, INC.

MEMBER ACIL

ANALYTICAL REPORT

February 24, 2010

Work Order: 10B0598

Report To	Work Order Information
Gary Erickson	Date Received: 02/16/2010 11:55AM
Sauer-Danfoss	Collector: Pryke/Swank
2800 E. 13th St.	Phone: 515-239-6539
Ames, IA 50010	PO Number: 4501353392

Project : Quarterly Waste Pretreatment

Project Number: Pretreatment

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
10B0598-01 Front Parking Lot North Manhole				Matrix: Water		Collected: 02/16/10 10:50	
CBOD (5 day)	228 mg/l	4	1B01617	SM 5210 B	JRP	02/17/10 7:00	
Cyanide, total	0.010 mg/l	0.007	1B02304	4500CN-E	DRB	02/23/10 8:22	
Chemical Oxygen Demand	855 mg/l	100	1B01921	EPA 410.4	MAV	02/22/10 9:41	
Nitrogen, Ammonia	15.8 mg/l	1.0	1B01705	SM 4500-NH3 B,E	SAI	02/17/10 14:46	
Oil/Grease, animal/vegetable	37 mg/l	4	1B01931	EPA 1664	DRB	02/22/10 9:00	
Oil/Grease, petroleum	<4 mg/l	4	1B01931	EPA 1664	DRB	02/22/10 9:00	
Oil and Grease	39 mg/l	4	1B01931	EPA 1664	DRB	02/22/10 9:00	
pH	8.3 pH	0.5	1B01704	SM 4500 H+ B	LJG	02/17/10 7:45	I-03
Nitrogen, Kjeldahl, total	38.4 mg/l	1.00	1B02225	EPA 351.2	SAI	02/23/10 15:52	
Solids, total suspended	95 mg/l	10	1B01703	USGS I-3765-85	LJG	02/17/10 7:42	
Molybdenum, total	0.030 mg/l	0.010	1B01805	EPA 200.7	SAA	02/18/10 18:48	

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Keystone LABORATORIES, INC.

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10B0598

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2118 - 1A02141										
Cal Standard (10A2118-CAL1)				Prepared & Analyzed: 01/21/10						
Cyanide, total	-0.0006		mg/l	0.00000						
Cal Standard (10A2118-CAL2)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.010		mg/l	0.00999870		96.7				
Cal Standard (10A2118-CAL3)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.040		mg/l	0.0399948		101				
Cal Standard (10A2118-CAL4)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.081		mg/l	0.0799896		102				
Cal Standard (10A2118-CAL5)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.159		mg/l	0.159979		99.6				
Cal Standard (10A2118-CAL6)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.308		mg/l	0.319958		96.2				
Calibration Check (10A2118-CCV1)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.107		mg/l	0.100000		107	90-110			
Batch 10B1905 - 1B01921										
Calibration Check (10B1905-CCV1)				Prepared: 02/19/10 Analyzed: 02/22/10						
Chemical Oxygen Demand	75.8		mg/l	75.0000		101	80-120			
Initial Cal Check (10B1905-ICV1)				Prepared: 02/19/10 Analyzed: 02/22/10						
Chemical Oxygen Demand	75.8		mg/l	75.0000		101	80-120			

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February 24, 2010

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B2311 - 1B02304										
Calibration Check (10B2311-CCV1)				Prepared & Analyzed: 02/23/10						
Cyanide, total	0.098		mg/l	0.0999870		98.3	90-110			
Calibration Check (10B2311-CCV2)				Prepared & Analyzed: 02/23/10						
Cyanide, total	0.098		mg/l	0.0999870		98.3	90-110			
Instrument Blank (10B2311-IBL1)				Prepared & Analyzed: 02/23/10						
Cyanide, total	ND	0.007	mg/l							
Instrument Blank (10B2311-IBL2)				Prepared & Analyzed: 02/23/10						
Cyanide, total	ND	0.007	mg/l							
Initial Cal Check (10B2311-ICV1)				Prepared & Analyzed: 02/23/10						
Cyanide, total	0.098		mg/l	0.0999870		97.7	90-110			
Initial Cal Check (10B2311-ICV2)				Prepared & Analyzed: 02/23/10						
Cyanide, total	0.097		mg/l	0.0999870		97.0	90-110			
Batch 10B2315 - 1B02225										
Calibration Check (10B2315-CCV1)				Prepared & Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	4.68		mg/l	5.00000		93.6	90-110			
Calibration Check (10B2315-CCV2)				Prepared & Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	4.73		mg/l	5.00000		94.6	90-110			
Calibration Check (10B2315-CCV3)				Prepared & Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	5.22		mg/l	5.00000		104	90-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B2315 - 1B02225										
Calibration Check (10B2315-CCV4)				Prepared & Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	4.97		mg/l	5.00000		99.5	90-110			
Calibration Check (10B2315-CCV5)				Prepared & Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	4.82		mg/l	5.00000		96.4	90-110			
Calibration Check (10B2315-CCV6)				Prepared & Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	4.86		mg/l	5.00000		97.3	90-110			
Batch 19L1510 - 1L91506										
Cal Standard (19L1510-CAL1)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	0.455		mg/l	0.00000						
Cal Standard (19L1510-CAL2)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	7.86		mg/l	10.0000		78.6				
Cal Standard (19L1510-CAL3)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	22.4		mg/l	20.0000		112				
Cal Standard (19L1510-CAL4)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	74.8		mg/l	75.0000		99.8				
Cal Standard (19L1510-CAL5)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	99.0		mg/l	100.000		99.0				
Cal Standard (19L1510-CAL6)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	151		mg/l	150.000		100				

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February 24, 2010

Work Order: 10B0598

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 19L1510 - 1L91506										
Calibration Check (19L1510-CCV1)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	79.3		mg/l	75.0000		106	80-120			
Batch 1B01617 - General Prep Micro										
Blank (1B01617-BLK1)				Prepared & Analyzed: 02/17/10						
CBOD (5 day)	ND	4	mg/l							
Duplicate (1B01617-DUP1)		Source: 10B0606-05		Prepared & Analyzed: 02/17/10						
CBOD (5 day)	5500	4	mg/l		5730			4.12	30	
Reference (1B01617-SRM1)				Prepared & Analyzed: 02/17/10						
CBOD (5 day)	434	4	mg/l	415.800		104	84.6-115.4			
Batch 1B01703 - Wet Chem Preparation										
Blank (1B01703-BLK1)				Prepared & Analyzed: 02/17/10						
Solids, total suspended	ND	1	mg/l							
LCS (1B01703-BS1)				Prepared & Analyzed: 02/17/10						
Solids, total suspended	13.3	1	mg/l	15.0000		88.7	75-114			
Duplicate (1B01703-DUP1)		Source: 10B0613-03		Prepared & Analyzed: 02/17/10						
Solids, total suspended	2290	100	mg/l		2300			0.436	30	
Batch 1B01704 - Wet Chem Preparation										
Duplicate (1B01704-DUP1)		Source: 10B0598-01		Prepared & Analyzed: 02/17/10						
pH	8.3	0.5	pH		8.3			0.00	10	I-03

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B01704 - Wet Chem Preparation										
Reference (1B01704-SRM1)				Prepared & Analyzed: 02/17/10						
pH	7.0	0.5	pH	7.00000		100	98.5-101.5			1-03
Batch 1B01705 - Wet Chem Preparation										
Blank (1B01705-BLK1)				Prepared & Analyzed: 02/17/10						
Nitrogen, Ammonia	ND	1.0	mg/l							
LCS (1B01705-BS1)				Prepared & Analyzed: 02/17/10						
Nitrogen, Ammonia	10.2	1.0	mg/l	10.0000		102	86-110			
Matrix Spike (1B01705-MS1)		Source: 10B0526-01		Prepared & Analyzed: 02/17/10						
Nitrogen, Ammonia	37.4	1.0	mg/l	10.0000	27.9	95.2	82-110			
Matrix Spike Dup (1B01705-MSD1)		Source: 10B0526-01		Prepared & Analyzed: 02/17/10						
Nitrogen, Ammonia	37.6	1.0	mg/l	10.0000	27.9	96.6	82-110	0.373	10	
Batch 1B01921 - Wet Chem Preparation										
Blank (1B01921-BLK1)				Prepared: 02/19/10 Analyzed: 02/22/10						
Chemical Oxygen Demand	ND	10	mg/l							
LCS (1B01921-BS1)				Prepared: 02/19/10 Analyzed: 02/22/10						
Chemical Oxygen Demand	81.3	10	mg/l	75.0000		108	87-115			
Matrix Spike (1B01921-MS1)		Source: 10B0691-02		Prepared: 02/19/10 Analyzed: 02/22/10						
Chemical Oxygen Demand	47.8	10	mg/l	37.5000	11.4	97.0	60-140			

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B01921 - Wet Chem Preparation										
Matrix Spike Dup (1B01921-MSD1)		Source: 10B0691-02		Prepared: 02/19/10 Analyzed: 02/22/10						
Chemical Oxygen Demand	39.4	10	mg/l	37.5000	11.4	74.7	60-140	19.2	26	
Batch 1B01931 - Wet Chem Preparation										
Blank (1B01931-BLK1)				Prepared & Analyzed: 02/22/10						
Oil and Grease	ND	4	mg/l							
Oil/Grease, animal/vegetable	ND	4	"							
Oil/Grease, petroleum	ND	4	"							
LCS (1B01931-BS1)				Prepared & Analyzed: 02/22/10						
Oil and Grease	37	4	mg/l	40.0000		91.8	78-114			
Oil/Grease, animal/vegetable	21	4	"	20.0000		104	64-132			
Oil/Grease, petroleum	16	4	"	20.0000		80.0	64-132			
Matrix Spike (1B01931-MS1)		Source: 10B0411-01		Prepared & Analyzed: 02/22/10						
Oil and Grease	39	4	mg/l	40.1204	2	91.8	78-114			
Oil/Grease, animal/vegetable	23	4	"	20.0602	1	109	64-132			
Oil/Grease, petroleum	15	4	"	20.0602	ND	77.0	64-132			
Matrix Spike Dup (1B01931-MSD1)		Source: 10B0411-01		Prepared & Analyzed: 02/22/10						
Oil and Grease	41	4	mg/l	40.2010	2	96.5	78-114	5.00	18	
Oil/Grease, animal/vegetable	24	4	"	20.1005	1	114	64-132	4.42	34	
Oil/Grease, petroleum	16	4	"	20.1005	ND	81.5	64-132	5.88	34	
Batch 1B02225 - Wet Chem Preparation										
Blank (1B02225-BLK1)				Prepared: 02/22/10 Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	ND	0.50	mg/l							

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1B02225 - Wet Chem Preparation										
LCS (1B02225-BS1)				Prepared: 02/22/10 Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	18.9	0.50	mg/l	20.0000		94.6	84-120			
Matrix Spike (1B02225-MS1)		Source: 10B0599-01		Prepared: 02/22/10 Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	11.3	0.50	mg/l	10.0000	1.56	97.2	83-129			
Matrix Spike Dup (1B02225-MSD1)		Source: 10B0599-01		Prepared: 02/22/10 Analyzed: 02/23/10						
Nitrogen, Kjeldahl, total	11.9	0.50	mg/l	10.0000	1.56	103	83-129	5.11	10	
Batch 1B02304 - Wet Chem Preparation										
Blank (1B02304-BLK1)				Prepared & Analyzed: 02/23/10						
Cyanide, total	ND	0.007	mg/l							
LCS (1B02304-BS1)				Prepared & Analyzed: 02/23/10						
Cyanide, total	0.024	0.007	mg/l	0.0200000		118	90-124			
Matrix Spike (1B02304-MS1)		Source: 10B0671-01		Prepared & Analyzed: 02/23/10						
Cyanide, total	0.043	0.007	mg/l	0.0200000	0.024	96.0	80-125			
Matrix Spike Dup (1B02304-MSD1)		Source: 10B0671-01		Prepared & Analyzed: 02/23/10						
Cyanide, total	0.044	0.007	mg/l	0.0200000	0.024	99.1	80-125	1.42	13	

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Work Order: 10B0598

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B1809 - 1B01710										
Calibration Blank (10B1809-CCB1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.000428		mg/l	0.00000						
Calibration Blank (10B1809-CCB2)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.000524		mg/l	0.00000						
Calibration Blank (10B1809-CCB3)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.000955		mg/l	0.00000						
Calibration Blank (10B1809-CCB4)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.00111		mg/l	0.00000						
Calibration Blank (10B1809-CCB5)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.000847		mg/l	0.00000						
Calibration Blank (10B1809-CCB6)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.00103		mg/l	0.00000						
Calibration Blank (10B1809-CCB7)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.00162		mg/l	0.00000						
Calibration Blank (10B1809-CCB8)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.00168		mg/l	0.00000						
Calibration Check (10B1809-CCV1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.984		mg/l	1.00000		98.4	90-110			
Calibration Check (10B1809-CCV2)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.975		mg/l	1.00000		97.5	90-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B1809 - 1B01710										
Calibration Check (10B1809-CCV3)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.987		mg/l	1.00000		98.7	90-110			
Calibration Check (10B1809-CCV4)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.982		mg/l	1.00000		98.2	90-110			
Calibration Check (10B1809-CCV5)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.989		mg/l	1.00000		98.9	90-110			
Calibration Check (10B1809-CCV6)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	1.01		mg/l	1.00000		101	90-110			
Calibration Check (10B1809-CCV7)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.977		mg/l	1.00000		97.7	90-110			
Calibration Check (10B1809-CCV8)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	1.00		mg/l	1.00000		100	90-110			
High Cal Check (10B1809-HCV1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	9.96		mg/l	10.0000		99.6	90-110			
Low Cal Check (10B1809-LCV1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.00543		mg/l	0.00500000		109	70-130			
Low Cal Check (10B1809-LCV2)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.0104		mg/l	0.0100000		104	70-130			
Low Cal Check (10B1809-LCV3)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.0214		mg/l	0.0200000		107	70-130			

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Determination of Total Metals - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B1809 - 1B01710										
Low Cal Check (10B1809-LCV4)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.0314		mg/l	0.0300000		105	70-130			
Low Cal Check (10B1809-LCV5)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.0510		mg/l	0.0500000		102	70-130			
Low Cal Check (10B1809-LCV6)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.103		mg/l	0.100000		103	70-130			
Secondary Cal Check (10B1809-SCV1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	1.97		mg/l	2.00000		98.6	90-110			
Batch 1B01805 - EPA 3010A Total ICP										
Blank (1B01805-BLK1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	ND	0.010	mg/l							
LCS (1B01805-BS1)				Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.201	0.010	mg/l	0.200000		100	89-124			
Matrix Spike (1B01805-MS1)		Source: 10B0652-01		Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.198	0.010	mg/l	0.200000	ND	99.2	84-124			
Matrix Spike Dup (1B01805-MSD1)		Source: 10B0652-01		Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.202	0.010	mg/l	0.200000	ND	101	84-124	1.81	12	
Post Spike (1B01805-PS1)		Source: 10B0652-01		Prepared & Analyzed: 02/18/10						
Molybdenum, total	0.208		mg/l	0.200000	0.000386	104	90-116			

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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February 24, 2010

Certified Analyses included in this Report

Method/Matrix	Analyte	Certifications
4500CN-E in Water		
	Cyanide, total	IA-NT,KS-NT,NELAC
EPA 1664 in Water		
	Oil and Grease	IA-NT,KS-NT,NELAC
	Oil/Grease, animal/vegetable	IA-NT,KS-NT,NELAC
	Oil/Grease, petroleum	IA-NT,KS-NT,NELAC
EPA 200.7 in Water		
	Cadmium, total	SIA1X
	Chromium, total	SIA1X
	Copper, dissolved	SIA1X
	Copper, total	SIA1X
	Iron, total	SIA1X
	Lead, total	SIA1X
	Molybdenum, total	SIA1X
	Nickel, total	SIA1X
	Silver, total	SIA1X
	Zinc, total	SIA1X
EPA 351.2 in Water		
	Nitrogen, Kjeldahl, total	SIA1X
EPA 410.4 in Water		
	Chemical Oxygen Demand	IA-NT,KS-NT,NELAC
EPA 6010 in Other		
	Zinc, total	IA-NT,KS-NT,NELAC
EPA 6010B in Other		
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC
EPA 6010B in Soil		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10B0598

	Arsenic, total	IA-NT,KS-NT
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Molybdenum, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Potassium, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Zinc, total	IA-NT,KS-NT,NELAC
EPA 6010B in Solid		
	Lead, total	IA-NT,KS-NT,NELAC
EPA 6010B in Water		
	Iron, dissolved	IA-NT,KS-NT,NELAC
	Iron, total	IA-NT,KS-NT,NELAC
	Magnesium, dissolved	IA-NT,KS-NT,NELAC
	Magnesium, total	IA-NT,KS-NT,NELAC
SM 4500 H+ B in Water		
	pH	IA-NT,KS-NT,NELAC
SM 4500-NH3 B,E in Water		
	Nitrogen, Ammonia	IA-NT,KS-NT,NELAC
SM 5210 B in Water		
	CBOD (5 day)	SIA1X
USGS I-3765-85 in Water		
	Solids, total suspended	SIA1X

Code	Description	Number	Expires
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010
SIA1X	Iowa Department of Natural Resources	095	02/01/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10B0598

Notes and Definitions

I-03	Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
I-03	Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
I-06	Analysis requested by client past EPA recommended hold time.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Keystone LABORATORIES, INC.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10B0598

February 24, 2010
Page 15 of 15

MEMBER ACIL

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC. N2-09032

600 East 17th Street South
Newton, IA 50208
641-792-8451

Page 1 of 1
Printed: 1/18/2010 9:41:00AM
www.keystonelabs.com

SITE INFORMATION
Sampler: Pryke / Sweek
Project: Quarterly Waste Pretreatment
Pretreatment

REPORT TO
Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

INVOICE TO
Accounts Payable
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

SPECIAL INSTRUCTIONS
None

Turn Around Time
☐ Standard ☐ RUSH, need by / /

LAB USE ONLY
Work Order 10B0598
Temperature
Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	Front Parking Lot North Manhole	Water		2/16/10	10:50	—	og-profile-1664, mo-t-200.7, nh3-4500be, cbod-5210, ca-t-4500c, cod-t-410.4, ph-4500, tkn-351.2, tss-i-3765-85 pH - 8.94 Temp 14.9°C	01

Relinquished By: [signature] Date/Time: 2/16/10 11:55
Relinquished By: Date/Time:
Received By: Date/Time:
Received for Lab By: M. Main Date/Time: 2-16-10 11:55

Remarks:

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Phone 641-792-8451 · 600 East 17th Street South Newton, IA 50208 · Fax 641-792-7989

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-24177-1

SDG Number: 500-24177-1

Job Description: 10-233

For:
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser

Donna L. Ingersoll

Approved for release.
Donna L Ingersoll
Project Manager II
2/26/2010 2:55 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
02/26/2010

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: Due to the high concentration of Tetrachloroethene, the matrix spike / matrix spike duplicate (MS/MSD) for batch 81093 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-24177-1	27074-1Q 2010				
1,1-Dichloroethane		0.0050	0.0010	mg/L	8260B
1,1-Dichloroethene		0.0075	0.0010	mg/L	8260B
Tetrachloroethene		0.28	0.010	mg/L	8260B
1,1,1-Trichloroethane		0.027	0.0010	mg/L	8260B
Trichloroethene		0.012	0.0010	mg/L	8260B
cis-1,2-Dichloroethene		0.028	0.0010	mg/L	8260B

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Method	Analyst	Analyst ID
SW846 8260B	Drabek, Dave J	DJD

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-24177-1	27074-1Q 2010	Water	02/19/2010 0815	02/22/2010 0900

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Client Sample ID: 27074-1Q 2010
Lab Sample ID: 500-24177-1

Date Sampled: 02/19/2010 0815
Date Received: 02/22/2010 0900
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	02/25/2010 1950		
Prep Method: 5030B		Date Prepared:	02/25/2010 1950		
Acetone	<0.0050	mg/L	0.0016	0.0050	1.0
1,1-Dichloroethane	0.0050	mg/L	0.00025	0.0010	1.0
1,1-Dichloroethene	0.0075	mg/L	0.00019	0.0010	1.0
1,1,1-Trichloroethane	0.027	mg/L	0.00018	0.0010	1.0
Trichloroethene	0.012	mg/L	0.00024	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00032	0.0020	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00032	0.0010	1.0
cis-1,2-Dichloroethene	0.028	mg/L	0.00027	0.0010	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	88	%		77 - 120	
Dibromofluoromethane	99	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	93	%		72 - 135	
Toluene-d8 (Surr)	98	%		80 - 120	
Method: 8260B Run Type: DL		Date Analyzed:	02/25/2010 2014		
Prep Method: 5030B		Date Prepared:	02/25/2010 2014		
Tetrachloroethene	0.26	mg/L	0.0022	0.010	10
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	88	%		77 - 120	
Dibromofluoromethane	93	%		79 - 133	
1,2-Dichloroethane-d4 (Surr)	96	%		72 - 135	
Toluene-d8 (Surr)	97	%		80 - 120	

DATA REPORTING QUALIFIERS

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Lab Section	Qualifier	Description
GC/MS VOA		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.

QUALITY CONTROL RESULTS

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-81093					
LCS 500-81093/9	Lab Control Sample	T	Water	8260B	
MB 500-81093/4	Method Blank	T	Water	8260B	
500-24177-1	27074-1Q 2010	T	Water	8260B	
500-24177-1DL	27074-1Q 2010	T	Water	8260B	
500-24177-1MS	Matrix Spike	T	Water	8260B	
500-24177-1MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
500-24177-1	27074-1Q 2010	88	99	93	98
500-24177-1 DL	27074-1Q 2010 DL	88	93	96	97
MB 500-81093/4		95	92	97	97
LCS 500-81093/9		94	105	101	98
500-24177-1 MS	27074-1Q 2010 MS	95	103	93	98
500-24177-1 MSD	27074-1Q 2010 MSD	96	99	96	96

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	77-120
DBFM = Dibromofluoromethane	79-133
DCA = 1,2-Dichloroethane-d4 (Surr)	72-135
TOL = Toluene-d8 (Surr)	80-120

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Method Blank - Batch: 500-81093

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-81093/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/25/2010 1212
Date Prepared: 02/25/2010 1212

Analysis Batch: 500-81093
Prep Batch: N/A
Units: mg/L

Instrument ID: MS02
Lab File ID: 2M0225.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<0.0050		0.0016	0.0050
1,1-Dichloroethane	<0.0010		0.00025	0.0010
1,1-Dichloroethene	<0.0010		0.00019	0.0010
m&p-Xylene	<0.0020		0.00032	0.0020
o-Xylene	<0.0010		0.00038	0.0010
Tetrachloroethene	<0.0010		0.00022	0.0010
1,1,1-Trichloroethane	<0.0010		0.00018	0.0010
Trichloroethene	<0.0010		0.00024	0.0010
Xylenes, Total	<0.0020		0.00032	0.0020
trans-1,2-Dichloroethene	<0.0010		0.00032	0.0010
cis-1,2-Dichloroethene	<0.0010		0.00027	0.0010

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	77 - 120
Dibromofluoromethane	92	79 - 133
1,2-Dichloroethane-d4 (Surr)	97	72 - 135
Toluene-d8 (Surr)	97	80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Lab Control Sample - Batch: 500-81093

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-81093/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/25/2010 2127
Date Prepared: 02/25/2010 2127

Analysis Batch: 500-81093
Prep Batch: N/A
Units: mg/L

Instrument ID: MS02
Lab File ID: 2T0225.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.0250	0.0249	99	29 - 152	
1,1-Dichloroethane	0.0250	0.0222	89	65 - 120	
1,1-Dichloroethene	0.0250	0.0177	71	55 - 129	
m&p-Xylene	0.0500	0.0426	85	74 - 120	
o-Xylene	0.0250	0.0214	86	74 - 120	
Tetrachloroethene	0.0250	0.0202	81	70 - 120	
1,1,1-Trichloroethane	0.0250	0.0204	81	64 - 122	
Trichloroethene	0.0250	0.0220	88	71 - 120	
Xylenes, Total	0.0750	0.0640	85	74 - 120	
trans-1,2-Dichloroethene	0.0250	0.0202	81	66 - 120	
cis-1,2-Dichloroethene	0.0250	0.0208	83	72 - 123	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	77 - 120
Dibromofluoromethane	105	79 - 133
1,2-Dichloroethane-d4 (Surr)	101	72 - 135
Toluene-d8 (Surr)	98	80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
Sdg Number: 500-24177-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-81093

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	500-24177-1	Analysis Batch: 500-81093	Instrument ID: MS02
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 4177-01S.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	02/25/2010 2038		Final Weight/Volume: 10 mL
Date Prepared:	02/25/2010 2038		

MSD Lab Sample ID:	500-24177-1	Analysis Batch: 500-81093	Instrument ID: MS02
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: 4177-01T.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	02/25/2010 2102		Final Weight/Volume: 10 mL
Date Prepared:	02/25/2010 2102		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	97	85	29 - 152	14	20		
1,1-Dichloroethane	95	84	65 - 120	10	20		
1,1-Dichloroethene	78	67	55 - 129	11	20		
m&p-Xylene	98	91	74 - 120	7	20		
o-Xylene	96	90	74 - 120	7	20		
Tetrachloroethene	24	-3	70 - 120	3	20	E 4	E 4
1,1,1-Trichloroethane	85	71	64 - 122	8	20		
Trichloroethene	93	85	71 - 120	5	20		
Xylenes, Total	97	91	74 - 120	7	20		
trans-1,2-Dichloroethene	95	85	66 - 120	12	20		
cis-1,2-Dichloroethene	87	72	72 - 123	8	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	96	77 - 120
Dibromofluoromethane	103	99	79 - 133
1,2-Dichloroethane-d4 (Surr)	93	96	72 - 135
Toluene-d8 (Surr)	98	96	80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

FEHR-GRAHAM & ASSOCIATES CHAIN OF CUSTODY RECORD 500-24177

Page 1 of 1

Project Number: 10-233

Turnaround Time (circle one): Standard Rush

For Rush Delivery, Specify Due Date:

Delivery Method: (circle one) Mail Fax Email

Deliver Report To: (check one) X

221 East Main Street
Suite 200
Freeport, IL 61032
815-235-7643 phone
815-235-4032 fax
aschlosser@fehrgraham.com e-mail

1820 Daimler Road
Rockford, IL 61112
815-394-4700 phone
815-394-4702 fax
bpalyuz@fehrgraham.com e-mail

Internal Routing To: Amy Schlosser

LAB USE ONLY
Login ID #
Login By
Lab Proj/ID #
Sample Temperature
Received on Ice Y or N
Comments:

Retain Samples Y N

Sampled By: Daniel Stoehr

ANALYSIS REQUESTED (Specify Method # applicable)

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME OF COLLECTION	COLIF	CRA8	HCl	NaOH	HNO3	H2SO4	NONE	OTHER	SAMPLE DESCRIPTION	VOC's - Method 8260 - (See attached sheet for reporting requests)
27074-10 2010	2.19.10	8:15a		X	2						Groundwater Effluent	X

COMMENTS: See attached

Relinquished By: Date: 2.19.10 Time: 8:15 Received By: Date: 2.19.10 Time: 0900

Relinquished By: Date: Time: Received By: Date: Time:

Relinquished By: Date: Time: Received By: Date: Time:

Fehr- Graham & Associates

500-24177

Project: 10-233

Sample ID: 27074 – 1Q 2010

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on: February 8, 2010

Number of Samples: One (1)

FGA contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 – Report only the following constituents:

- Acetone
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- ~~1,2-Dichloroethene~~
- 1,1,1-Trichloroethane
- Trichloroethene
- Tetrachloroethene
- Total Xylenes
- Cis 1,2-Dichloroethene
- trans 1,2-Dichloroethene

I:\Documents\2009\09-233\GW Remediation System Sample Parameters.doc

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-24177-1
SDG Number: 500-24177-1

Login Number: 24177
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.6
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

Customer	Fehr-Graham & Associates
Project	10-233
Sample Date	2/19/2010
Lab Name	TestAmerica Chicago
Job Number	500-24177-1

Analytical Results for Water Samples		Exposure Routes for Specific SRO				Sample ID
		Ingestion	Inhalation	Class I	Class II	27074-1Q 2010
Method	Analyte	mg/L	mg/L	mg/L	mg/L	—
8260B	1,1,1-Trichloroethane	NRO	NRO	0.2	1	0.027
8260B	1,1-Dichloroethane	NRO	NRO	0.7	3.5	0.0050
8260B	1,1-Dichloroethene	NRO	NRO	0.007	0.035	0.00075
8260B	Acetone	NRO	NRO	6.3	6.3	<0.0050
8260B	cis-1,2-Dichloroethene	NRO	NRO	0.07	0.2	0.028
8260B	Tetrachloroethene	NRO	NRO	0.005	0.025	0.028
8260B	trans-1,2-Dichloroethene	NRO	NRO	0.1	0.5	<0.0010
8260B	Trichloroethene	NRO	NRO	0.005	0.025	0.012
8260B	Xylenes, Total	NRO	NRO	10	10	<0.0020

Sauer-Danfoss
Ames, IA
Groundwater Remediation Flow Data

January 2010		269,889
February 2010		218,034
March 2010		438,636
Total flow (gals) 1st Quarter:	**926,559**	
	10,295	**gpd**

# of days in Quarter = 90

SAMPLER ID# 1182518539 11:31 16-FEB-10
Hardware: A1 Software: 2.31
********** PROGRAM SETTINGS **********

Sauer Danfoss
1030598

SITE DESCRIPTION:
"SAUR-DANFO"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"
V-NOTCH

1, 9.80 lit BTLS

25 ft SUCTION LINE

PACING:
FLOW, EVERY
350.0 gal

COMPOSITE:

120 SAMPLES

---

70 ml SAMPLES

NO DELAY TO START

24 HOURS RUN TIME

SAMPLER ID# 1182518539 11:31 16-FEB-10
Hardware: A1 Software: 2.31
********** SAMPLING RESULTS **********
SITE: SAUR-DANFO
Program Started at 10:47 MO 15-FEB-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	SOURCE	ERROR	COUNT TO LIQUID
		10:47	PGM ENABLED		
1	1	11:03	F		790
2	1	11:20	F		820
3	1	11:33	F		820
4	1	11:42	F		820

5	1	11:51	F		820
6	1	12:00	F		824
7	1	12:08	F		823
8	1	12:17	F		828
9	1	12:26	F		826
10	1	12:34	F		828
11	1	12:43	F		830
12	1	12:52	F		828
13	1	13:01	F		832
14	1	13:09	F		828
15	1	13:17	F		828
16	1	13:26	F		828
17	1	13:35	F		828
18	1	13:44	F		830
19	1	13:54	F		828
20	1	14:04	F		824
21	1	14:14	F		824
22	1	14:22	F		824
23	1	14:32	F		824
24	1	14:42	F		824
25	1	14:56	F		821
26	1	15:14	F		1112
27	1	15:33	F		837
28	1	15:54	F		827
29	1	16:13	F		814
30	1	16:32	F		814
31	1	16:52	F		819
32	1	17:15	F		808
33	1	17:45	F		804
34	1	18:24	F	NM	*
35	1	19:12	F	NM	*
36	1	19:58	F		794
37	1	20:25	F		794
38	1	21:07	F		788
39	1	21:25	F		794
40	1	21:43	F		790
41	1	21:59	F		790
42	1	22:15	F		790
43	1	22:31	F		790
44	1	22:51	F		825
45	1	23:13	F		788
46	1	23:35	F		787
47	1	23:55	F		809
		TU 16-FEB-10			
48	1	00:57	F	NL	*
49	1	04:09	F		778
50	1	05:04	F		782
51	1	05:16	F		813
52	1	06:43	F		790
53	1	07:03	F		782
54	1	07:21	F		784
55	1	07:38	F		784
56	1	07:54	F		784
57	1	08:05	F		785
58	1	08:16	F		794
59	1	08:27	F		794
60	1	08:38	F		794
61	1	08:48	F		794
62	1	08:59	F		796
63	1	09:09	F		794
64	1	09:20	F		815
65	1	09:31	F		800
66	1	09:44	F		794

				2872
67	1	09:59	F	792
68	1	10:16	F	796
69	1	10:35	F	794
		10:47	PGM DONE 16-FEB	

SOURCE F ==> FLOW
ERROR NL ==> NO LIQUID DETECTED!
ERROR NM ==> NO MORE LIQUID!

SAMPLER ID# 1182518539 11:31 16-FEB-10
Hardware: A1 Software: 2.31
BUBBLER MODULE: 1160556497
Hardware: A0 Software: 1.07
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 10:47 MO 15-FEB-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	LEVEL ft	FLOW RATE gpm	TOTAL FLOW gal
1	1	11:03	0.420	23.24	0000000350
2	1	11:20	0.404	19.62	0000000700
3	1	11:33	0.466	36.17	0000001050
4	1	11:42	0.479	40.37	0000001400
5	1	11:51	0.479	40.37	0000001750
6	1	12:00	0.472	38.31	0000002100
7	1	12:08	0.479	40.37	0000002450
8	1	12:17	0.482	41.38	0000002800
9	1	12:26	0.472	38.31	0000003150
10	1	12:34	0.492	44.31	0000003500
11	1	12:43	0.486	42.37	0000003850
12	1	12:52	0.463	35.08	0000004200
13	1	13:01	0.486	42.37	0000004550
14	1	13:09	0.492	44.31	0000004900
15	1	13:17	0.479	40.37	0000005240
16	1	13:26	0.463	35.08	0000005590
17	1	13:35	0.476	39.35	0000005940
18	1	13:44	0.466	36.17	0000006290
19	1	13:54	0.469	37.25	0000006650
20	1	14:04	0.463	35.08	0000006990
21	1	14:14	0.489	43.35	0000007350
22	1	14:22	0.469	37.25	0000007690
23	1	14:32	0.443	28.99	0000008040
24	1	14:42	0.466	36.17	0000008400
25	1	14:56	0.423	24.01	0000008740
26	1	15:14	0.381	15.20	0000009090
27	1	15:33	0.381	15.20	0000009440
28	1	15:54	0.400	18.95	0000009790
29	1	16:13	0.413	21.75	0000010150
30	1	16:32	0.404	19.62	0000010500
31	1	16:52	0.387	16.39	0000010840
32	1	17:15	0.377	14.63	0000011190
33	1	17:45	0.348	10.07	0000011540
34	1	18:24	0.328	7.590	0000011890
35	1	19:12	0.331	7.977	0000012240
36	1	19:58	0.374	14.07	0000012590
37	1	20:25	0.358	11.46	0000012940

					2872
38	1	21:07	0.400	18.95	0000013290
39	1	21:25	0.397	18.29	0000013640
40	1	21:43	0.413	21.75	0000013990
41	1	21:59	0.423	24.01	0000014340
42	1	22:15	0.410	21.02	0000014690
43	1	22:31	0.410	21.02	0000015040
44	1	22:51	0.384	15.79	0000015390
45	1	23:13	0.381	15.20	0000015740
46	1	23:35	0.407	20.32	0000016090
47	1	23:55	0.381	15.20	0000016440
			TU 16-FEB-10		
48	1	00:57	0.299	4.645	0000016790
49	1	04:09	0.440	28.11	0000017140
50	1	05:04	0.449	30.79	0000017490
51	1	05:16	0.387	16.39	0000017840
52	1	06:43	0.394	17.64	0000018190
53	1	07:03	0.394	17.64	0000018540
54	1	07:21	0.407	20.32	0000018890
55	1	07:38	0.400	18.95	0000019240
56	1	07:54	0.443	28.99	0000019590
57	1	08:05	0.466	36.17	0000019940
58	1	08:16	0.456	32.86	0000020290
59	1	08:27	0.449	30.79	0000020640
60	1	08:38	0.449	30.79	0000020990
61	1	08:48	0.459	33.96	0000021340
62	1	08:59	0.456	32.86	0000021690
63	1	09:09	0.463	35.08	0000022040
64	1	09:20	0.453	31.78	0000022390
65	1	09:31	0.449	30.79	0000022740
66	1	09:44	0.423	24.01	0000023090
67	1	09:59	0.400	18.95	0000023440
68	1	10:16	0.417	22.48	0000023790
69	1	10:35	0.397	18.29	0000024140

SAMPLER ID# 1182518539 11:32 16-FEB-10
Hardware: A1 Software: 2.31
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 10:47 MO 15-FEB-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	FR-TEMP C
		NO FR-TEMPERATURE	

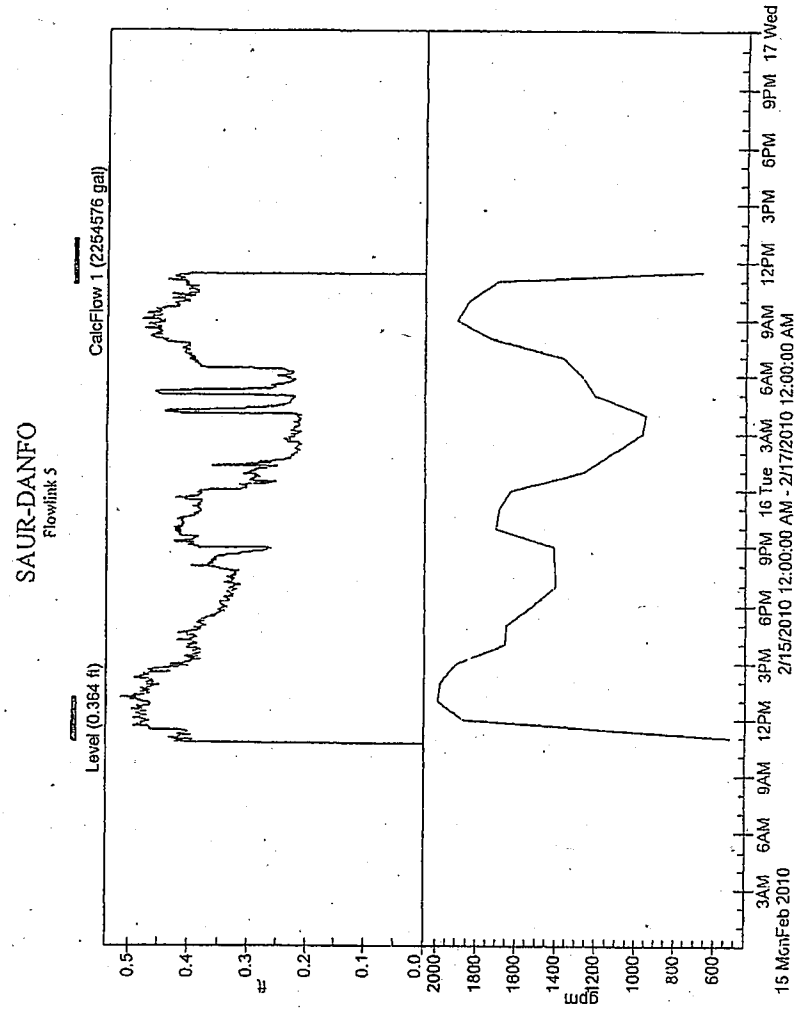
SAMPLER ID# 1182518539 11:32 16-FEB-10
Hardware: A1 Software: 2.31
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 10:47 MO 15-FEB-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME
		NO RAIN GAUGE

2872

SAMPLER ID# 1182518539 11:32 16-FEB-10
Hardware: A1 Software: 2.31
SDI-12 DATA
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 10:47 MO 15-FEB-10
Nominal Sample Volume = 70 ml

NO SDI-12 SONDE



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
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Web: www.fehr-graham.com

UPS Overnight Tracking Number: 1Z 651 395 01 5067 4070

July 7, 2010

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

FILE COPY

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 2nd Quarter 2010

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy. If satisfactory sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Please retain two additional copies and I will file when next on-site.

A hardcopy of the entire report must be received by the City of Ames no later than July 12, 2010.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2010\10-313\DMS 10-313 - 2nd Qtr Wastewater to City of Ames.doc
Enclosure

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
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E-mail: fga@fehr-graham.com

Ph. 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

CERTIFIED MAIL NUMBER: 7009 2250 0003 3277 0258
RETURN RECEIPT REQUESTED

July 8, 2010

FILE COPY

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 2nd Quarter 2010
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir/Madam:

Enclosed, please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 2nd quarter of 2010. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively and a summary of monthly flow in gals/month from the groundwater remediation project.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2010\10-313\DMS 10-313 - 2nd Qrtr Wastewater to City of Ames.doc
Enclosure

cc: Sauer-Danfoss (with enclosure)

Non-Domestic Waste Pretreatment Program
Quarterly Report
(Non-Significant, Non-Domestic Contributor)
2nd Quarter 2010
Reporting Period: 4/1/2010 to 6/30/2010
Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
Permit No: 6593-7
Facility Contact: Gary Erickson
Facility Phone No: 515-239-6000
Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment Sample Port (GW Remediation)
Sample Type: Grab & 24 Hour Composite
Sample Date: **4/14/10 (GW Remediation)/ 4/7/10 (Wastewater)**

Analyte	Permit Limit Mg/L	Sample Results Mg/L
Facility	Sauer Danfoss 2800 East 13th	
Flow	Gals/Day	28,200
pH	6-10 pH	8.90
TSS	1,500	845
Cyanide	0.55	0.010
Ammonia (NH3)	200	23.5
Total Kjeldahl Nitrogen (TKN)	250	58.0
Oil & Grease	300	63
CBOD 5	1,500	593
COD	2,500	2170
Molybdenum	0.19	0.011
GW remediation	**Max Expected Concentration ug/L**	ug/L
Flow (remediation)	Gals/Qrtr	891,339
Acetone	44	<5.0
1,1-Dichloroethane	370	4.5
1,1-Dichloroethene	170	8.4
cis- 1,2-Dichloroethene	490	26
Tetrachloroethene	1700	250
1,1,1-Trichloroethane	650	26
Trichloroethene	110	10
Total Xylenes	11	<2.0

Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: Please see attached for Groundwater Remediation Flow Data

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person (s) who manage the system, or those persons directly responsible for gathering the information, the information is, the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed Gary Erickson Date 7-9-10
Authorized Representative

Sauer-Danfoss
Ames, IA
Groundwater Remediation Flow Data

April 2010		263,432
May 2010		282,437
June 2010		345,471
Total flow (gals) 2nd Quarter:	**891,339**	
	9,795	**gpd**

# of days in Quarter = 91

Keystone LABORATORIES, INC.

MEMBER ACIL

ANALYTICAL REPORT

April 15, 2010

Work Order: 10D0304

Report To	Work Order Information
Gary Erickson	Date Received: 04/07/2010 1:10PM
Sauer-Danfoss	Collector: Pryke
2800 E. 13th St.	Phone: 515-239-6539
Ames, IA 50010	PO Number: 4501353392

Project : Quarterly Waste Pretreatment

Project Number: Pretreatment

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
10D0304-01	Front Parking Lot North Manhole			Matrix:Water		Collected: 04/07/10 09:20	
CBOD (5 day)	593 mg/l	4	1D00802	SM 5210 B	JRP	04/08/10 7:08	
Cyanide, total	0.010 mg/l	0.007	1D01348	4500CN-E	DRB	04/14/10 8:00	
Chemical Oxygen Demand	2170 mg/l	1000	1D01324	EPA 410.4	MAV	04/13/10 15:46	
Nitrogen, Ammonia	23.5 mg/l	1.0	1D00810	SM 4500-NH3 B,E	SAI	04/08/10 13:59	
Oil/Grease, animal/vegetable	60 mg/l	4	1D01210	EPA 1664	DRB	04/12/10 8:36	
Oil/Grease, petroleum	<4 mg/l	4	1D01210	EPA 1664	DRB	04/12/10 8:36	
Oil and Grease	63 mg/l	4	1D01210	EPA 1664	DRB	04/12/10 8:36	
pH	6.6 pH	0.5	1D00864	SM 4500 H+ B	LJG	04/08/10 22:18	I-03
Nitrogen, Kjeldahl, total	58.0 mg/l	1.25	1D01203	EPA 351.2	WAS	04/15/10 11:35	
Solids, total suspended	845 mg/l	50	1D01302	USGS I-3765-85	LJG	04/13/10 7:27	
Molybdenum, total	0.011 mg/l	0.010	1D00808	EPA 200.7	RVV	04/09/10 16:51	
Flow	28200 Gallons	1.0000	1D01232	Flow	JRP	04/07/10 9:25	
pH	8.9 pH	0.5	1D01232	SM 4500 H+ B	JRP	04/07/10 9:25	
Temperature	17.2 °C	0.00	1D01232	SM 2550 B	JRP	04/07/10 9:25	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2118 - 1A02141										
Cal Standard (10A2118-CAL1)				Prepared & Analyzed: 01/21/10						
Cyanide, total	-0.0006		mg/l	0.00000						
Cal Standard (10A2118-CAL2)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.010		mg/l	0.00999870		96.7				
Cal Standard (10A2118-CAL3)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.040		mg/l	0.0399948		101				
Cal Standard (10A2118-CAL4)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.081		mg/l	0.0799896		102				
Cal Standard (10A2118-CAL5)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.159		mg/l	0.159979		99.6				
Cal Standard (10A2118-CAL6)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.308		mg/l	0.319958		96.2				
Calibration Check (10A2118-CCV1)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.107		mg/l	0.100000		107	90-110			
Batch 10D1310 - 1D01324										
Calibration Check (10D1310-CCV1)				Prepared & Analyzed: 04/13/10						
Chemical Oxygen Demand	89.3		mg/l	75.0000		119	80-120			
Initial Cal Check (10D1310-ICV1)				Prepared & Analyzed: 04/13/10						
Chemical Oxygen Demand	89.3		mg/l	75.0000		119	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10D1312 - 1D01203										
Calibration Check (10D1312-CCV1)				Prepared & Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	4.73		mg/l	5.00000		94.7	90-110			
Calibration Check (10D1312-CCV2)				Prepared & Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	4.74		mg/l	5.00000		94.9	90-110			
Calibration Check (10D1312-CCV3)				Prepared & Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	4.85		mg/l	5.00000		97.0	90-110			
Calibration Check (10D1312-CCV4)				Prepared & Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	5.37		mg/l	5.00000		107	90-110			
Calibration Check (10D1312-CCV5)				Prepared & Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	4.56		mg/l	5.00000		91.2	90-110			
Calibration Check (10D1312-CCV6)				Prepared & Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	5.01		mg/l	5.00000		100	90-110			
Batch 10D1407 - 1D01348										
Calibration Check (10D1407-CCV1)				Prepared & Analyzed: 04/14/10						
Cyanide, total	0.098		mg/l	0.0999870		97.7	90-110			
Calibration Check (10D1407-CCV2)				Prepared: 04/14/10 Analyzed: 04/15/10						
Cyanide, total	0.103		mg/l	0.0999870		103	90-110			
Instrument Blank (10D1407-IBL1)				Prepared & Analyzed: 04/14/10						
Cyanide, total	ND	0.007	mg/l							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10D1407 - 1D01348										
Instrument Blank (10D1407-IBL2)				Prepared & Analyzed: 04/14/10						
Cyanide, total	ND	0.007	mg/l							
Initial Cal Check (10D1407-ICV1)				Prepared & Analyzed: 04/14/10						
Cyanide, total	0.098		mg/l	0.0999870		97.7	90-110			
Initial Cal Check (10D1407-ICV2)				Prepared & Analyzed: 04/14/10						
Cyanide, total	0.102		mg/l	0.0999870		102	90-110			
Batch 19L1510 - 1L91506										
Cal Standard (19L1510-CAL1)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	0.455		mg/l	0.00000						
Cal Standard (19L1510-CAL2)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	7.86		mg/l	10.0000		78.6				
Cal Standard (19L1510-CAL3)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	22.4		mg/l	20.0000		112				
Cal Standard (19L1510-CAL4)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	74.8		mg/l	75.0000		99.8				
Cal Standard (19L1510-CAL5)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	99.0		mg/l	100.000		99.0				
Cal Standard (19L1510-CAL6)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	151		mg/l	150.000		100				

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 19L1510 - 1L91506										
Calibration Check (19L1510-CCV1)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	79.3		mg/l	75.0000		106	80-120			
Batch 1D00802 - General Prep Micro										
Blank (1D00802-BLK1)				Prepared & Analyzed: 04/08/10						
CBOD (5 day)	ND	4	mg/l							
Duplicate (1D00802-DUP1)		Source: 10D0298-01		Prepared & Analyzed: 04/08/10						
CBOD (5 day)	71.0	4	mg/l		74.0			4.14	30	
Duplicate (1D00802-DUP2)		Source: 10D0304-01		Prepared & Analyzed: 04/08/10						
CBOD (5 day)	671	4	mg/l		593			12.3	30	
Reference (1D00802-SRM1)				Prepared & Analyzed: 04/08/10						
CBOD (5 day)	466	4	mg/l	409.200		114	84.6-115.4			
Batch 1D00810 - Wet Chem Preparation										
Blank (1D00810-BLK1)				Prepared & Analyzed: 04/08/10						
Nitrogen, Ammonia	ND	1.0	mg/l							
LCS (1D00810-BS1)				Prepared & Analyzed: 04/08/10						
Nitrogen, Ammonia	9.9	1.0	mg/l	10.0000		99.1	86-110			
Matrix Spike (1D00810-MS1)		Source: 10D0240-01		Prepared & Analyzed: 04/08/10						
Nitrogen, Ammonia	11.2	1.0	mg/l	10.0000	1.0	101	82-110			

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D00810 - Wet Chem Preparation										
Matrix Spike Dup (1D00810-MSD1)		Source: 10D0240-01		Prepared & Analyzed: 04/08/10						
Nitrogen, Ammonia	10.7	1.0	mg/l	10.0000	1.0	97.0	82-110	5.84	10	
Reference (1D00810-SRM1)				Prepared & Analyzed: 04/08/10						
Nitrogen, Ammonia	9.9	1.0	mg/l	10.0000		99.1	0-200			
Batch 1D00864 - Wet Chem Preparation										
Duplicate (1D00864-DUP1)		Source: 10D0498-01		Prepared & Analyzed: 04/08/10						
pH	8.3	0.5	pH		7.8			6.11	10	I-03
Reference (1D00864-SRM1)				Prepared & Analyzed: 04/08/10						
pH	7.0	0.5	pH	7.00000		100	98.5-101.5			I-03
Batch 1D01203 - Wet Chem Preparation										
Blank (1D01203-BLK1)				Prepared: 04/12/10 Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	ND	0.50	mg/l							
Blank (1D01203-BLK2)				Prepared: 04/12/10 Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	ND	0.50	mg/l							
LCS (1D01203-BS1)				Prepared: 04/12/10 Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	19.0	0.50	mg/l	20.0000		95.0	84-120			
LCS (1D01203-BS2)				Prepared: 04/12/10 Analyzed: 04/13/10						
Nitrogen, Kjeldahl, total	17.6	0.50	mg/l	20.0000		87.9	84-120			

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D01203 - Wet Chem Preparation										
Matrix Spike (1D01203-MS1)		Source: 10D0157-01		Prepared: 04/12/10	Analyzed: 04/13/10					
Nitrogen, Kjeldahl, total	18.1	0.50	mg/l	10.0000	ND	181	83-120			QM-19
Matrix Spike (1D01203-MS2)		Source: 10D0342-03		Prepared: 04/12/10	Analyzed: 04/13/10					
Nitrogen, Kjeldahl, total	9.57	0.50	mg/l	10.0000	ND	95.7	83-120			
Matrix Spike Dup (1D01203-MSD1)		Source: 10D0157-01		Prepared: 04/12/10	Analyzed: 04/13/10					
Nitrogen, Kjeldahl, total	9.47	0.50	mg/l	10.0000	ND	94.7	83-120	62.6	10	QM-19
Matrix Spike Dup (1D01203-MSD2)		Source: 10D0342-03		Prepared: 04/12/10	Analyzed: 04/13/10					
Nitrogen, Kjeldahl, total	9.22	0.50	mg/l	10.0000	ND	92.2	83-120	3.75	10	
Batch 1D01210 - Wet Chem Preparation										
Blank (1D01210-BLK1)				Prepared & Analyzed: 04/12/10						
Oil and Grease	ND	4	mg/l							
Oil/Grease, animal/vegetable	ND	4	"							
Oil/Grease, petroleum	ND	4	"							
LCS (1D01210-BS1)				Prepared & Analyzed: 04/12/10						
Oil and Grease	39	4	mg/l	40.0000		98.2	78-114			
Oil/Grease, animal/vegetable	23	4	"	20.0000		114	64-132			
Oil/Grease, petroleum	17	4	"	20.0000		83.0	64-132			
Matrix Spike (1D01210-MS1)		Source: 10D0291-01		Prepared & Analyzed: 04/12/10						
Oil and Grease	47	4	mg/l	40.2010	5	105	78-114			
Oil/Grease, animal/vegetable	29	4	"	20.1005	3	130	64-132			
Oil/Grease, petroleum	18	4	"	20.1005	2	79.5	64-132			

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Keystone LABORATORIES, INC.

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D01210 - Wet Chem Preparation										
Matrix Spike Dup (1D01210-MSD1)		Source: 10D0291-01		Prepared & Analyzed: 04/12/10						
Oil and Grease	44	4	mg/l	40.1204	5	97.7	78-114	6.35	18	
Oil/Grease, animal/vegetable	27	4	"	20.0602	3	120	64-132	7.27	34	
Oil/Grease, petroleum	17	4	"	20.0602	2	75.5	64-132	4.85	34	
Batch 1D01302 - Wet Chem Preparation										
Blank (1D01302-BLK1)				Prepared & Analyzed: 04/13/10						
Solids, total suspended	ND	1	mg/l							
LCS (1D01302-BS1)				Prepared & Analyzed: 04/13/10						
Solids, total suspended	7.1	1	mg/l	7.50000		94.7	75-114			
Duplicate (1D01302-DUP1)		Source: 10D0566-05		Prepared & Analyzed: 04/13/10						
Solids, total suspended	30.8	4	mg/l		30.0			2.63	30	
Batch 1D01324 - Wet Chem Preparation										
Blank (1D01324-BLK1)				Prepared & Analyzed: 04/13/10						
Chemical Oxygen Demand	0.455	0	mg/l							
LCS (1D01324-BS1)				Prepared & Analyzed: 04/13/10						
Chemical Oxygen Demand	87.1	0	mg/l	75.0000		116	87-110			QS-01
Matrix Spike (1D01324-MS1)		Source: 10D0342-01		Prepared & Analyzed: 04/13/10						
Chemical Oxygen Demand	49.7	0	mg/l	37.5000	10.1	106	60-140			

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Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D01324 - Wet Chem Preparation										
Matrix Spike Dup (1D01324-MSD1)		Source: 10D0342-01		Prepared & Analyzed: 04/13/10						
Chemical Oxygen Demand	47.1	0	mg/l	37.5000	10.1	58.7	60-140	5.32	26	
Batch 1D01348 - Wet Chem Preparation										
Blank (1D01348-BLK1)				Prepared & Analyzed: 04/14/10						
Cyanide, total	ND	0.007	mg/l							
LCS (1D01348-BS1)				Prepared & Analyzed: 04/14/10						
Cyanide, total	0.022	0.007	mg/l	0.0200000		112	90-124			
Duplicate (1D01348-DUP1)		Source: 10D0676-07		Prepared & Analyzed: 04/14/10						
Cyanide, total	0.688	0.070	mg/l		0.657			4.61	20	
Matrix Spike (1D01348-MS1)		Source: 10D0676-07		Prepared & Analyzed: 04/14/10						
Cyanide, total	0.890	0.140	mg/l	0.200000	0.657	116	80-125			
Matrix Spike Dup (1D01348-MSD1)		Source: 10D0676-07		Prepared & Analyzed: 04/14/10						
Cyanide, total	0.840	0.140	mg/l	0.200000	0.657	91.5	80-125	5.73	13	

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Sauer-Danfoss
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Ames, IA 50010

Work Order: 10D0304

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10D0907 - 1D00850										
Calibration Blank (10D0907-CCB1)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.000251		mg/l	0.00000						
Calibration Blank (10D0907-CCB2)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.00147		mg/l	0.00000						
Calibration Blank (10D0907-CCB3)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.000455		mg/l	0.00000						
Calibration Blank (10D0907-CCB4)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.000397		mg/l	0.00000						
Calibration Blank (10D0907-CCB5)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.000677		mg/l	0.00000						
Calibration Blank (10D0907-CCB6)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.00126		mg/l	0.00000						
Calibration Check (10D0907-CCV1)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	1.01		mg/l	1.00000		101	90-110			
Calibration Check (10D0907-CCV2)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	1.02		mg/l	1.00000		102	90-110			
Calibration Check (10D0907-CCV3)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	1.00		mg/l	1.00000		100	90-110			
Calibration Check (10D0907-CCV4)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	1.01		mg/l	1.00000		101	90-110			

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10D0907 - 1D00850										
Calibration Check (10D0907-CCV5)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	1.01		mg/l	1.00000		101	90-110			
Calibration Check (10D0907-CCV6)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	1.01		mg/l	1.00000		101	90-110			
High Cal Check (10D0907-HCV1)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	10.2		mg/l	10.0000		102	90-110			
Low Cal Check (10D0907-LCV1)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.00632		mg/l	0.00500000		126	70-130			
Low Cal Check (10D0907-LCV2)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.0109		mg/l	0.0100000		109	70-130			
Low Cal Check (10D0907-LCV3)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.0216		mg/l	0.0200000		108	70-130			
Low Cal Check (10D0907-LCV4)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.0325		mg/l	0.0300000		108	70-130			
Low Cal Check (10D0907-LCV5)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.0523		mg/l	0.0500000		105	70-130			
Low Cal Check (10D0907-LCV6)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	0.105		mg/l	0.100000		105	70-130			
Secondary Cal Check (10D0907-SCV1)				Prepared & Analyzed: 04/09/10						
Molybdenum, total	2.08		mg/l	2.00000		104	90-110			

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Sauer-Danfoss
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Ames, IA 50010

Work Order: 10D0304

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D00808 - EPA 3010A Total ICP										
Blank (1D00808-BLK1)				Prepared: 04/08/10 Analyzed: 04/09/10						
Molybdenum, total	ND	0.010	mg/l							
LCS (1D00808-BS1)				Prepared: 04/08/10 Analyzed: 04/09/10						
Molybdenum, total	0.211	0.010	mg/l	0.200000		105	89-124			
Matrix Spike (1D00808-MS1)		Source: 10D0225-01		Prepared: 04/08/10 Analyzed: 04/09/10						
Molybdenum, total	0.257	0.010	mg/l	0.200000	0.0503	103	84-124			
Matrix Spike Dup (1D00808-MSD1)		Source: 10D0225-01		Prepared: 04/08/10 Analyzed: 04/09/10						
Molybdenum, total	0.258	0.010	mg/l	0.200000	0.0503	104	84-124	0.614	12	
Post Spike (1D00808-PS1)		Source: 10D0225-01		Prepared: 04/08/10 Analyzed: 04/09/10						
Molybdenum, total	1.09		mg/l	1.00000	0.0498	104	90-116			

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

Certified Analyses Included in this Report

Method/Matrix	Analyte	Certifications
200.7 In Drink Wtr		
	Sodium, total	SIA1X
4500CN-E In Water		
	Cyanide, total	IA-NT,KS-NT,NELAC
EPA 1664 In Water		
	Oil and Grease	IA-NT,KS-NT,NELAC
	Oil/Grease, animal/vegetable	IA-NT,KS-NT,NELAC
	Oil/Grease, petroleum	IA-NT,KS-NT,NELAC
EPA 200.7 In Water		
	Barium, total	SIA1X
	Boron, total	SIA1X
	Cadmium, total	SIA1X
	Calcium, total	SIA1X
	Chromium, total	SIA1X
	Cobalt, total	SIA1X
	Copper, total	SIA1X
	Iron, total	SIA1X
	Lead, total	SIA1X
	Manganese, total	SIA1X
	Molybdenum, total	SIA1X
	Nickel, total	SIA1X
	Silver, total	SIA1X
	Zinc, total	SIA1X
	Hardness, Total as CaCO3	KS-NT,NELAC
EPA 351.2 In Water		
	Nitrogen, Kjeldahl, total	SIA1X
EPA 410.4 In Water		
	Chemical Oxygen Demand	IA-NT,KS-NT,NELAC
EPA 6010B In Soil		
	Lead, total	IA-NT,KS-NT,NELAC
EPA 6010B In Water		
	Iron, dissolved	IA-NT,KS-NT,NELAC
EPA 9010 / 9014 In Water		
	Cyanide, total	IA-NT,KS-NT,NELAC

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Keystone LABORATORIES, INC.

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

SM 2550 B In Water		
	Temperature	SIA1X
SM 4500 H+ B In Water		
	pH	IA-NT,KS-NT,NELAC
SM 4500-NH3 B,E In Water		
	Nitrogen, Ammonia	KS-NT,NELAC
SM 5210 B In Water		
	CBOD (5 day)	SIA1X
USGS I-3765-85 In Water		
	Solids, total suspended	SIA1X

Code	Description	Number	Expires
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010
SIA1X	Iowa Department of Natural Resources	95	04/01/2010

Notes and Definitions

I-03	Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
I-03	Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
QM-19	The MS or MSD recovery was outside acceptance limits.This resulted in an unacceptable RPD. All other QC was acceptable.
QS-01	The blank spike recovery was outside acceptance limits. Batch accepted based on acceptable MS/MSD/RPD results.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

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Keystone LABORATORIES, INC.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10D0304

April 15, 2010
Page 15 of 15

MEMBER ACIL

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

600 East 17th Street South
Newton, IA 50208
Phone: 641-792-6451
FAX: 641-792-7989

Page 1 of 1
Printed: 1/1/2010 4:23:44PM

SITE INFORMATION
Sampler: Pryke
Project: Quarterly Waste Pretreatment Pretreatment

REPORT TO
Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

INVOICE TO
Accounts Payable
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

SPECIAL INSTRUCTIONS
None

Turn Around Time
☐ Standard ☐ RUSH, need by __/__/__

LAB USE ONLY
Work Order 10D0304
Temperature
Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received On Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Temp	Flow	pH	Analyses	Lab Sample Number
01-001	Front Parking Lot North Manhole	Water		4/7/10	9:20	17.2	28950	8.86	op-profile-1664 nh3-4500hc co-t-4500c pb-1500 tss-i-2765-85 no-t-200.7 chol-3210 cod-t-410.4 tkn-351.2	01

Relinquished By: [signature] Date/Time: 4/7/10 13:10
Relinquished By: Date/Time:
Received By: Date/Time:
Received for Lab By: [signature] Date/Time: 4/7/10 13:10

Remarks:

SAMPLER ID# 1182518539 09:33 7-APR-10
Hardware: A1 Software: 2.31
********** PROGRAM SETTINGS **********

SITE DESCRIPTION:
"SAUR-DANFO"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"
V-NOTCH

1, 9.80 lit BTLS

25 ft SUCTION LINE

PACING:
FLOW, EVERY
300.0 gal

COMPOSITE:

120 SAMPLES

---

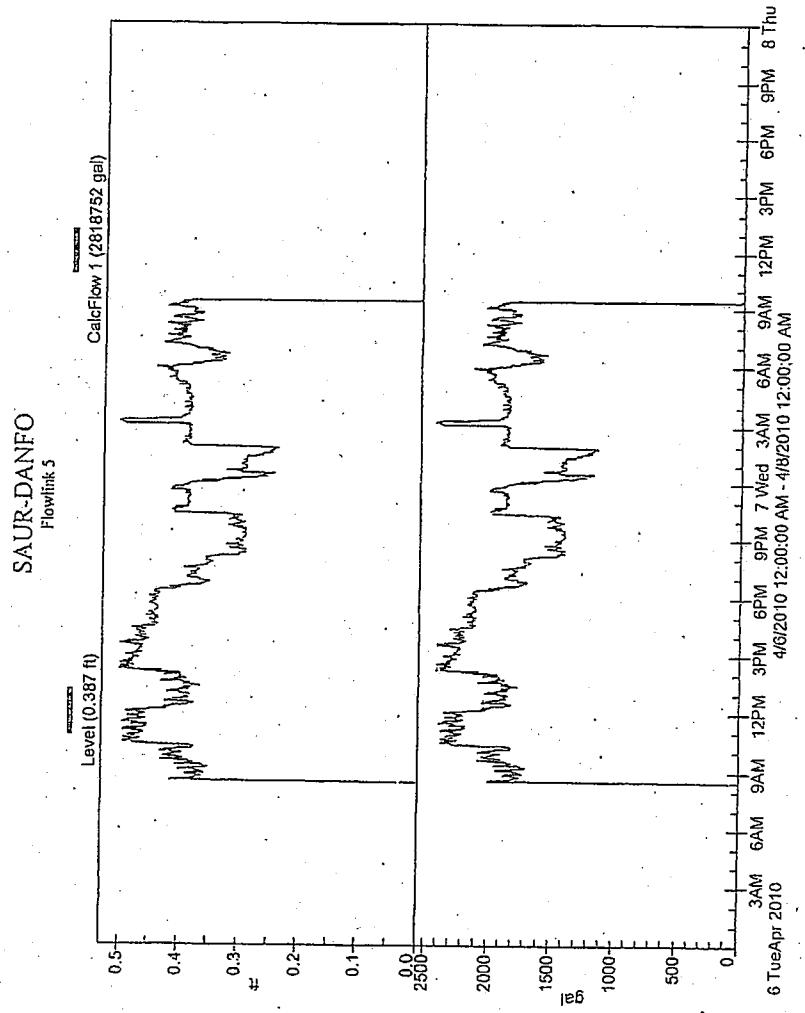
70 ml SAMPLES

NO DELAY TO START

24 HOURS RUN TIME

SAMPLER ID# 1182518539 09:33 7-APR-10
Hardware: A1 Software: 2.31
********** SAMPLING RESULTS **********
SITE: SAUR-DANFO
Program Started at 08:33 TU 6-APR-10
Nominal Sample volume = 70 ml

SAMPLE	BOTTLE	TIME	SOURCE	ERROR	COUNT TO LIQUID
		08:33	PGM	ENABLED	
1	1	08:53	F		754
2	1	09:15	F		762
3	1	09:35	F		766
4	1	09:49	F		770



				1020
68	1	23:46	F	750
----------		WE 07-APR-10		----------
69	1	00:03	F	749
70	1	01:02	F	746
71	1	02:07	F	746
72	1	02:25	F	746
73	1	02:44	F	748
74	1	03:02	F	748
75	1	03:12	F	754
76	1	03:18	F	759
77	1	03:33	F	774
78	1	03:52	F	746
79	1	04:10	F	748
80	1	04:29	F	743
81	1	04:47	F	746
82	1	05:05	F	746
83	1	05:21	F	748
84	1	05:35	F	748
85	1	05:49	F	748
86	1	06:02	F	752
87	1	06:28	F	748
88	1	06:58	F	748
89	1	07:13	F	749
90	1	07:28	F	752
91	1	07:43	F	754
92	1	07:59	F	752
93	1	08:14	F	752
94	1	08:32	F	749
		08:33	PGM DONE 07-APR	

SOURCE F ==> FLOW

SAMPLER ID# 1182518539 09:33 7-APR-10
Hardware: A1 Software: 2.31
BUBBLER MODULE: 1160556497
Hardware: A0 Software: 1.07
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 08:33 TU 6-APR-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	LEVEL ft	FLOW RATE gpm	TOTAL FLOW gal
1	1	08:53	0.387	16.39	0000000290
2	1	09:15	0.358	11.46	0000000590
3	1	09:35	0.417	22.48	0000000890
4	1	09:49	0.413	21.75	0000001190
5	1	10:04	0.430	25.61	0000001490
6	1	10:21	0.390	17.01	0000001800
7	1	10:30	0.492	44.31	0000002100
8	1	10:37	0.482	41.38	0000002400
9	1	10:44	0.479	40.37	0000002700
10	1	10:52	0.482	41.38	0000003000
11	1	11:00	0.466	36.17	0000003300
12	1	11:08	0.466	36.17	0000003600
13	1	11:16	0.456	32.86	0000003900
14	1	11:25	0.466	36.17	0000004200
15	1	11:32	0.495	45.25	0000004500

				1020
5	1	10:04	F	766
6	1	10:21	F	766
7	1	10:30	F	772
8	1	10:37	F	772
9	1	10:44	F	768
10	1	10:52	F	763
11	1	11:00	F	764
12	1	11:08	F	772
13	1	11:16	F	767
14	1	11:25	F	765
15	1	11:32	F	770
16	1	11:40	F	774
17	1	11:48	F	771
18	1	11:56	F	770
19	1	12:04	F	770
20	1	12:12	F	774
21	1	12:26	F	773
22	1	12:42	F	773
23	1	13:00	F	784
24	1	13:16	F	783
25	1	13:35	F	793
26	1	13:51	F	797
27	1	14:05	F	800
28	1	14:15	F	801
29	1	14:21	F	796
30	1	14:28	F	796
31	1	14:35	F	795
32	1	14:43	F	794
33	1	14:50	F	790
34	1	14:58	F	788
35	1	15:05	F	787
36	1	15:13	F	784
37	1	15:21	F	780
38	1	15:30	F	780
39	1	15:37	F	780
40	1	15:45	F	780
41	1	15:54	F	775
42	1	16:02	F	774
43	1	16:10	F	778
44	1	16:19	F	774
45	1	16:27	F	778
46	1	16:37	F	772
47	1	16:47	F	772
48	1	16:58	F	772
49	1	17:08	F	768
50	1	17:18	F	767
51	1	17:29	F	772
52	1	17:39	F	766
53	1	17:50	F	768
54	1	18:00	F	772
55	1	18:11	F	765
56	1	18:21	F	765
57	1	18:35	F	766
58	1	18:58	F	760
59	1	19:18	F	755
60	1	19:40	F	758
61	1	20:08	F	748
62	1	21:07	F	747
63	1	22:12	F	748
64	1	22:36	F	746
65	1	22:52	F	747
66	1	23:11	F	745
67	1	23:30	F	808

					1020
77	1	03:33	0.387	16.39	0000023100
78	1	03:52	0.384	15.79	0000023400
79	1	04:10	0.384	15.79	0000023700
80	1	04:29	0.381	15.20	0000024000
81	1	04:47	0.387	16.39	0000024300
82	1	05:05	0.397	18.29	0000024600
83	1	05:21	0.410	21.02	0000024900
84	1	05:35	0.407	20.32	0000025200
85	1	05:49	0.417	22.48	0000025500
86	1	06:02	0.390	17.01	0000025800
87	1	06:28	0.331	7.977	0000026100
88	1	06:58	0.377	14.63	0000026400
89	1	07:13	0.420	23.24	0000026700
90	1	07:28	0.407	20.32	0000027000
91	1	07:43	0.394	17.64	0000027300
92	1	07:59	0.394	17.64	0000027600
93	1	08:14	0.384	15.79	0000027900
94	1	08:32	0.410	21.02	0000028200

```
SAMPLER ID# 1182518539  09:34  7-APR-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 08:33 TU  6-APR-10
Nominal Sample Volume =   70 ml
                          FR-TEMP
SAMPLE  BOTTLE TIME         C
------- ------ ----       ----
                    NO FR-TEMPERATURE
----------------------------------------


SAMPLER ID# 1182518539  09:34  7-APR-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 08:33 TU  6-APR-10
Nominal Sample Volume =   70 ml
SAMPLE  BOTTLE TIME
------- ------ ----------- ------ ----
                    NO RAIN GAUGE
----------------------------------------


SAMPLER ID# 1182518539  09:34  7-APR-10
  Hardware:     A1  Software: 2.31
SDI-12 DATA
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 08:33 TU  6-APR-10
Nominal Sample Volume =   70 ml


                    NO SDI-12 SONDE
----------------------------------------
```


					1020
16	1	11:40	0.463	35.08	0000004800
17	1	11:48	0.466	36.17	0000005100
18	1	11:56	0.463	35.08	0000005400
19	1	12:04	0.486	42.37	0000005700
20	1	12:12	0.430	25.61	0000006000
21	1	12:26	0.387	16.39	0000006300
22	1	12:42	0.410	21.02	0000006600
23	1	13:00	0.400	18.95	0000006900
24	1	13:16	0.394	17.64	0000007200
25	1	13:35	0.394	17.64	0000007500
26	1	13:51	0.400	18.95	0000007800
27	1	14:05	0.436	27.26	0000008100
28	1	14:15	0.492	44.31	0000008400
29	1	14:21	0.486	42.37	0000008690
30	1	14:28	0.476	39.35	0000003990
31	1	14:35	0.479	40.37	0000009290
32	1	14:43	0.479	40.37	0000009590
33	1	14:50	0.472	38.31	0000009890
34	1	14:58	0.476	39.35	0000010190
35	1	15:05	0.472	38.31	0000010490
36	1	15:13	0.466	36.17	0000010790
37	1	15:21	0.466	36.17	0000011090
38	1	15:30	0.466	36.17	0000011390
39	1	15:37	0.492	44.31	0000011690
40	1	15:45	0.459	33.96	0000011990
41	1	15:54	0.463	35.08	0000012290
42	1	16:02	0.469	37.25	0000012590
43	1	16:10	0.463	35.08	0000012890
44	1	16:19	0.456	32.86	0000013190
45	1	16:27	0.466	36.17	0000013490
46	1	16:37	0.443	28.99	0000013790
47	1	16:47	0.449	30.79	0000014090
48	1	16:58	0.440	28.11	0000014390
49	1	17:08	0.446	29.88	0000014690
50	1	17:18	0.443	28.99	0000014990
51	1	17:29	0.436	27.26	0000015290
52	1	17:39	0.449	30.79	0000015590
53	1	17:50	0.443	28.99	0000015890
54	1	18:00	0.440	28.11	0000016190
55	1	18:11	0.436	27.26	0000016490
56	1	18:21	0.440	28.11	0000016790
57	1	18:35	0.394	17.64	0000017090
58	1	18:58	0.367	12.99	0000017390
59	1	19:18	0.377	14.63	0000017690
60	1	19:40	0.361	11.96	0000017990
61	1	20:08	0.351	10.52	0000018290
62	1	21:07	0.295	4.373	0000018590
63	1	22:12	0.302	4.934	0000018890
64	1	22:36	0.407	20.32	0000019190
65	1	22:52	0.387	16.39	0000019490
66	1	23:11	0.387	16.39	0000019790
67	1	23:30	0.387	16.39	0000020090
68	1	23:46	0.413	21.75	0000020390
----------			WE	7-APR-10	------
69	1	00:03	0.361	11.96	0000020690
70	1	01:02	0.299	4.645	0000020990
71	1	02:07	0.394	17.64	0000021290
72	1	02:25	0.387	16.39	0000021590
73	1	02:44	0.384	15.79	0000021890
74	1	03:02	0.384	15.79	0000022190
75	1	03:12	0.502	47.11	0000022490
76	1	03:18	0.486	42.37	0000022790

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-25037-1

SDG Number: 500-25037-1

Job Description: 10-233 Groundwater Remediation Effluent

For:
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser

Cindy Pritchard

Approved for release.
Cindy R Pritchard
Project Mgmt. Assistant
4/22/2010 2:19 PM

Designee for
Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
04/22/2010

cc: Ms. Donna Ingersoll
Ms. Erin Jarrett

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
500-25037-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-25037-1	27338 2Q2010				
1,1-Dichloroethane		0.0045	0.0010	mg/L	8260B
1,1-Dichloroethene		0.0084	0.0010	mg/L	8260B
Tetrachloroethene		0.25	0.0050	mg/L	8260B
1,1,1-Trichloroethane		0.026	0.0010	mg/L	8260B
Trichloroethene		0.010	0.0010	mg/L	8260B
cis-1,2-Dichloroethene		0.026	0.0010	mg/L	8260B

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Method	Analyst	Analyst ID
SW846 8260B	Alikpala, Elaine	EA
SW846 8260B	Drabek, Dave J	DJD

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-25037-1	27338 2Q2010	Water	04/14/2010 0800	04/15/2010 1030

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Client Sample ID: 27338 2Q2010
Lab Sample ID: 500-25037-1

Date Sampled: 04/14/2010 0800
Date Received: 04/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:		04/20/2010 1145	
Prep Method: 5030B		Date Prepared:		04/20/2010 1145	
Acetone	<0.0050	mg/L	0.0016	0.0050	1.0
1,1-Dichloroethane	0.0045	mg/L	0.00025	0.0010	1.0
1,1-Dichloroethene	0.0084	mg/L	0.00019	0.0010	1.0
1,1,1-Trichloroethane	0.026	mg/L	0.00018	0.0010	1.0
Trichloroethene	0.010	mg/L	0.00024	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00032	0.0020	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00032	0.0010	1.0
cis-1,2-Dichloroethene	0.026	mg/L	0.00027	0.0010	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	91	%		80 - 115	
Dibromofluoromethane	99	%		80 - 124	
1,2-Dichloroethane-d4 (Surr)	89	%		80 - 129	
Toluene-d8 (Surr)	105	%		80 - 115	
Method: 8260B Run Type: DL		Date Analyzed:		04/22/2010 1024	
Prep Method: 5030B		Date Prepared:		04/22/2010 1024	
Tetrachloroethene	0.25	mg/L	0.0011	0.0050	5.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	88	%		80 - 115	
Dibromofluoromethane	90	%		80 - 124	
1,2-Dichloroethane-d4 (Surr)	100	%		80 - 129	
Toluene-d8 (Surr)	108	%		80 - 115	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

QUALITY CONTROL RESULTS

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-84321					
LCS 500-84321/5	Lab Control Sample	T	Water	8260B	
MB 500-84321/4	Method Blank	T	Water	8260B	
500-25037-1	27338 2Q2010	T	Water	8260B	
Analysis Batch:500-84438					
LCS 500-84438/5	Lab Control Sample	T	Water	8260B	
MB 500-84438/4	Method Blank	T	Water	8260B	
500-25037-1DL	27338 2Q2010	T	Water	8260B	

Report Basis
T = Total

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
500-25037-1	27338 2Q2010	91	99	89	105
500-25037-1 DL	27338 2Q2010 DL	88	90	100	108
MB 500-84321/4		90	94	96	107
MB 500-84438/4		83	93	97	91
LCS 500-84321/5		96	99	97	107
LCS 500-84438/5		97	95	100	105

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	80-115
DBFM = Dibromofluoromethane	80-124
DCA = 1,2-Dichloroethane-d4 (Surr)	80-129
TOL = Toluene-d8 (Surr)	80-115

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Method Blank - Batch: 500-84321

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-84321/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/20/2010 1057
Date Prepared: 04/20/2010 1057

Analysis Batch: 500-84321
Prep Batch: N/A
Units: mg/L

Instrument ID: MS02
Lab File ID: 2M0420.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<0.0050		0.0016	0.0050
1,1-Dichloroethane	<0.0010		0.00025	0.0010
1,1-Dichloroethene	<0.0010		0.00019	0.0010
m&p-Xylene	<0.0020		0.00032	0.0020
o-Xylene	<0.0010		0.00038	0.0010
Tetrachloroethene	<0.0010		0.00022	0.0010
1,1,1-Trichloroethane	<0.0010		0.00018	0.0010
Trichloroethene	<0.0010		0.00024	0.0010
Xylenes, Total	<0.0020		0.00032	0.0020
trans-1,2-Dichloroethene	<0.0010		0.00032	0.0010
cis-1,2-Dichloroethene	<0.0010		0.00027	0.0010

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	80 - 115
Dibromofluoromethane	94	80 - 124
1,2-Dichloroethane-d4 (Surr)	96	80 - 129
Toluene-d8 (Surr)	107	80 - 115

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Lab Control Sample - Batch: 500-84321

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-84321/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/20/2010 1121
Date Prepared: 04/20/2010 1121

Analysis Batch: 500-84321
Prep Batch: N/A
Units: mg/L

Instrument ID: MS02
Lab File ID: 2S0420.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.0250	0.0282	113	42 - 149	
1,1-Dichloroethane	0.0250	0.0236	94	67 - 122	
1,1-Dichloroethene	0.0250	0.0218	87	55 - 127	
m&p-Xylene	0.0500	0.0464	93	79 - 120	
o-Xylene	0.0250	0.0236	94	80 - 117	
Tetrachloroethene	0.0250	0.0217	87	76 - 116	
1,1,1-Trichloroethane	0.0250	0.0236	94	76 - 127	
Trichloroethene	0.0250	0.0228	91	77 - 118	
Xylenes, Total	0.0750	0.0700	93	79 - 120	
trans-1,2-Dichloroethene	0.0250	0.0224	90	67 - 125	
cis-1,2-Dichloroethene	0.0250	0.0217	87	65 - 115	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	80 - 115
Dibromofluoromethane	99	80 - 124
1,2-Dichloroethane-d4 (Surr)	97	80 - 129
Toluene-d8 (Surr)	107	80 - 115

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Method Blank - Batch: 500-84438

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-84438/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/22/2010 0935
Date Prepared: 04/22/2010 0935

Analysis Batch: 500-84438
Prep Batch: N/A
Units: mg/L

Instrument ID: MS02
Lab File ID: 2M0422.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<0.0050		0.0016	0.0050
1,1-Dichloroethane	<0.0010		0.00025	0.0010
1,1-Dichloroethene	<0.0010		0.00019	0.0010
m&p-Xylene	<0.0020		0.00032	0.0020
o-Xylene	<0.0010		0.00038	0.0010
Tetrachloroethene	<0.0010		0.00022	0.0010
1,1,1-Trichloroethane	<0.0010		0.00018	0.0010
Trichloroethene	<0.0010		0.00024	0.0010
Xylenes, Total	<0.0020		0.00032	0.0020
trans-1,2-Dichloroethene	<0.0010		0.00032	0.0010
cis-1,2-Dichloroethene	<0.0010		0.00027	0.0010

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	83	80 - 115
Dibromofluoromethane	93	80 - 124
1,2-Dichloroethane-d4 (Surr)	97	80 - 129
Toluene-d8 (Surr)	91	80 - 115

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
Sdg Number: 500-25037-1

Lab Control Sample - Batch: 500-84438

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-84438/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/22/2010 1000
Date Prepared: 04/22/2010 1000

Analysis Batch: 500-84438
Prep Batch: N/A
Units: mg/L

Instrument ID: MS02
Lab File ID: 2S0422A.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.0250	0.0318	127	42 - 149	
1,1-Dichloroethane	0.0250	0.0255	102	67 - 122	
1,1-Dichloroethene	0.0250	0.0239	96	55 - 127	
m&p-Xylene	0.0500	0.0541	108	79 - 120	
o-Xylene	0.0250	0.0268	107	80 - 117	
Tetrachloroethene	0.0250	0.0258	103	76 - 116	
1,1,1-Trichloroethane	0.0250	0.0265	106	76 - 127	
Trichloroethene	0.0250	0.0258	103	77 - 118	
Xylenes, Total	0.0750	0.0809	108	79 - 120	
trans-1,2-Dichloroethene	0.0250	0.0256	102	67 - 125	
cis-1,2-Dichloroethene	0.0250	0.0244	97	65 - 115	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	80 - 115
Dibromofluoromethane	95	80 - 124
1,2-Dichloroethane-d4 (Surr)	100	80 - 129
Toluene-d8 (Surr)	105	80 - 115

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Chain of Custody Record

500-25037

Project Number : 10-233

Turnaround Time (circle one) : Standard / Rush

For Rush Delivery, Specify Due Date:

Delivery Method : (circle one) Mail / Fax / Email

Deliver Report To : (check one)

[x] 221 East Main Street
Suite 200
Freeport, IL 61032
815-235-7643 phone
815-235-4632 fax
eschlosser@fehr-graham.com e-mail

[ ] 1920 Daimler Road
Rockford, IL 61112
815-394-4700 phone
815-394-4702 fax
bpaluzzi@fehr-graham.com e-mail

Internal Routing To : Daniel Stoehr

LAB USE ONLY
Login ID # ____
Login By ____
Lab Proj/ID # ____
Sample Temperature ____
Received on Ice Y or N
Cooler Sealed Y or N
Comments:

Page 1 of 1

Retain Samples Y N

Sampled By: Daniel Stoehr

ANALYSIS REQUESTED (Specify Method if applicable)

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME OF COLLECTION	COMP	GRAB	Number and type of containers: HCl	NaOH	HNO3	H2SO4	NONE	OTHER	SAMPLE DESCRIPTION	VOCs - Method 8260 - (Site attached sheet for reporting requests)					
27338 2Q2010	4.14.10	8:00am		x	3						Groundwater Effluent	X					

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	4.14.10	8:30am	[signature]	4-15-10	1030
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Fehr-Graham & Associates

500-25037

Project: 10-233
Sample ID: 27338-2Q 2010
Sample Characteristics: Groundwater Remediation Effluent
Sample to be collected on: 4.14.10
Number of samples: One (1)
FGA Contact for questions: Daniel Stoehr (815.266.2163)

Analyze for VOC's Method 8260 - Report only the following characteristics

Acetone
1,1 - Dichloroethane
1,1 - Dichloroethene
1,1,1 - Trichloroethane
Trichloroethene
Tetrachloroethene
Total Xylenes
Cis 1,2 - Dichloroethene
trans 1,2 - Dichloroethene

PLEASE NOTE, ONLY CIS 1,2 - DICHLOROETHENE WILL BE REPORTED PER MATT HAWES OF CITY OF AMES

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-25037-1
SDG Number: 500-25037-1

Login Number: 25037
Creator: James, Jeff A
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

Civil • Surveying • Municipal • Structural • EHS • IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

UPS Overnight Tracking Number: 1Z 651 395 01 5019 4642

October 4, 2010

FILE COPY

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 3rd Quarter 2010

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy. If satisfactory, sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Please retain two additional copies and I will file when next on-site.

Please note that the sample collected July 13, 2010, returned a violation for Total Suspended Solids (TSS) of 1700 mg/l with a permit limit of 1500 mg/l. A sample collected August 19, 2010, returned a result of 1110 mg/l for TSS. Per the direction of Matt Hawes of the City of Ames, the original result is reported here, and the analytical report for both is attached.

A hardcopy of the entire report must be received by the City of Ames no later than October 11, 2010.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2010\10-313\DMS 10-313 - 3rd Qrtr Wastewater to City of Ames.doc
Enclosures

Recycled Paper

FEHR-GRAHAM & ASSOCIATES
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Web: www.fehr-graham.com

CERTIFIED MAIL NUMBER: 7009 2250 0003 3277 0913
RETURN RECEIPT REQUESTED

October 5, 2010

FILE COPY

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 3rd Quarter 2010
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir/Madam:

Enclosed please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 3rd quarter of 2010. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively and a summary of monthly flow in gals/month from the groundwater remediation project.

Please note that the sample collected July 13, 2010, returned a violation for Total Suspended Solids (TSS) of 1700 mg/l with a permit limit of 1500 mg/l. A sample collected August 19, 2010, returned a result of 1110 mg/l for TSS. Per the direction of Matt Hawes of the City of Ames, the original result is reported here and the analytical reports for both are enclosed.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2010\10-313\DMS 10-313 - 3rd Qtr Wastewater to City of Ames.doc
Enclosures

cc: Sauer-Danfoss (with enclosure)

Recycled Paper

Non-Domestic Waste Pretreatment Program
Quarterly Report
(Non-Significant, Non-Domestic Contributor)
3 rd Quarter 2010
Reporting Period: 7/1/2010 to 9/30/2010
Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
Permit No: 6593-7
Facility Contact: Gary Erickson
Facility Phone No: 515-239-6000
Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment Sample Port (GW Remediation)
Sample Type: Grab & 24 Hour Composite
Sample Date: 7/14/10 (GW Remediation)/ 7/13/10 (Wastewater)

Analyte	Permit Limit Mg/L	Sample Results Mg/L
Facility	Sauer Danfoss 2800 East 13th	Sauer Danfoss 2800 East 13th
Flow	Gals/Day	30,000
pH	6-10 pH	6.80
TSS	1,500	1,700
Cyanide	0.55	<0.007
Ammonia (NH3)	200	18.5
Total Kjeldahl Nitrogen (TKN)	250	123.0
Oil & Grease	300	99
CBOD 5	1,500	>1037
COD	2,500	2260
Molybdenum	0.19	0.024
GW remediation	**Max Expected Concentration ug/L**	ug/L
Flow (remediation)	Gals/Qrtr	1,098,261
Acetone	44	<5
1,1-Dichloroethane	370	3.4
1,1-Dichloroethene	170	7
cis- 1,2-Dichloroethene	490	25
Tetrachloroethene	1700	340
1,1,1-Trichloroethane	650	34
Trichloroethene	110	13
Total Xylenes	11	<2

Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: Please see attached for Groundwater Remediation Flow Data. Results for initial sample collection are reported above. Subsequent analysis was below permit limits (1110 mg/l). Analytical reports for both are attached.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person (s) who manage the system, or those persons directly responsible for gathering the information, the information is, the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed _____ Date _____
Authorized Representative

Sauer-Danfoss
Ames, IA
Groundwater Remediation Flow Data

July 2010		333,081
August 2010		458,053
September 2010		307,127
Total flow (gals) 3rd Quarter:	**1,098,261**	
	11,938	**gpd**

# of days in Quarter = 92

Keystone Analytical

Report 7/26/2010

Keystone LABORATORIES, INC.

MEMBER ACIL

ANALYTICAL REPORT

July 26, 2010

Work Order: 10G0601

Report To	Work Order Information
Gary Erickson	Date Received: 07/13/2010 1:05PM
Sauer-Danfoss	Collector: Pryke
2800 E. 13th St.	Phone: 515-239-6539
Ames, IA 50010	PO Number: 4501353392

Project : Quarterly Waste Pretreatment

Project Number: Pretreatment

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
10G0601-01 Front Parking Lot North Manhole				Matrix:Water		Collected: 07/13/10 10:25	
CBOD (5 day)	> 1037 mg/l	4	1G01328	SM 5210 B	JRP	07/14/10 7:00	
Cyanide, total	<0.007 mg/l	0.007	1G02064	4500CN-E	DRB	07/21/10 8:00	
Chemical Oxygen Demand	2260 mg/l	200	1G01416	EPA 410.4	SAI	07/14/10 16:12	
Nitrogen, Ammonia	18.5 mg/l	2.0	1G01606	SM 4500-NH3 B,E	JDK	07/16/10 15:20	
Oil/Grease, animal/vegetable	96 mg/l	4	1G01436	EPA 1664	DRB	07/15/10 8:00	
Oil/Grease, petroleum	<4 mg/l	4	1G01436	EPA 1664	DRB	07/15/10 8:00	
Oil and Grease	99 mg/l	4	1G01436	EPA 1664	DRB	07/15/10 8:00	
Nitrogen, Kjeldahl, total	123 mg/l	4.00	1G01531	EPA 351.2	DRB	07/16/10 8:00	
Solids, total suspended	1700 mg/l	50	1G01605	USGS I-3765-85	LJG	07/16/10 7:42	
Molybdenum, total	0.024 mg/l	0.010	1G01529	EPA 200.7	SAA	07/20/10 16:18	
Flow	30000 Gallons	1.0000	1G01336	Flow	JRP	07/13/10 10:30	
pH	6.8 pH	0.5	1G01336	SM 4500 H+ B	JRP	07/13/10 10:30	
Temperature	22.1 °C	0.00	1G01336	SM 2550 B	JRP	07/13/10 10:30	
10G0601-01RE1 Front Parking Lot North Manhole				Matrix:Water		Collected: 07/13/10 10:25	
CBOD (5 day)	963 mg/l	4	1G01918	SM 5210 B	JRP	07/14/10 7:00	

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Phone 641-792-8451 660 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2118 - 1A02141										
Cal Standard (10A2118-CAL1)				Prepared & Analyzed: 01/21/10						
Cyanide, total	-0.0006		mg/l	0.00000						
Cal Standard (10A2118-CAL2)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.010		mg/l	0.00999870		96.7				
Cal Standard (10A2118-CAL3)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.040		mg/l	0.0399948		101				
Cal Standard (10A2118-CAL4)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.081		mg/l	0.0799896		102				
Cal Standard (10A2118-CAL5)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.159		mg/l	0.159979		99.6				
Calibration Check (10A2118-CCV1)				Prepared & Analyzed: 01/21/10						
Cyanide, total	0.107		mg/l	0.100000		107	90-110			
Batch 10G1409 - 1G01416										
Calibration Check (10G1409-CCV1)				Prepared & Analyzed: 07/14/10						
Chemical Oxygen Demand	67.4		mg/l	75.0000		89.9	80-120			
Initial Cal Check (10G1409-ICV1)				Prepared & Analyzed: 07/14/10						
Chemical Oxygen Demand	66.8		mg/l	75.0000		89.0	80-120			
Batch 10G1606 - 1G01531										
Calibration Check (10G1606-CCV1)				Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	4.85		mg/l	5.00000		97.0	90-110			

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10G1606 - 1G01531										
Calibration Check (10G1606-CCV2)				Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	4.69		mg/l	5.00000		93.7	90-110			
Calibration Check (10G1606-CCV3)				Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	4.63		mg/l	5.00000		92.7	90-110			
Calibration Check (10G1606-CCV4)				Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	4.62		mg/l	5.00000		92.4	90-110			
Batch 10G2107 - 1G02064										
Calibration Check (10G2107-CCV1)				Prepared & Analyzed: 07/21/10						
Cyanide, total	0.093		mg/l	0.0999870		92.7	90-110			
Calibration Check (10G2107-CCV2)				Prepared: 07/21/10 Analyzed: 07/22/10						
Cyanide, total	0.097		mg/l	0.0999870		97.0	90-110			
Instrument Blank (10G2107-IBL1)				Prepared & Analyzed: 07/21/10						
Cyanide, total	ND	0.007	mg/l							
Instrument Blank (10G2107-IBL2)				Prepared: 07/21/10 Analyzed: 07/22/10						
Cyanide, total	ND	0.007	mg/l							
Initial Cal Check (10G2107-ICV1)				Prepared & Analyzed: 07/21/10						
Cyanide, total	0.093		mg/l	0.0999870		93.3	90-110			
Initial Cal Check (10G2107-ICV2)				Prepared: 07/21/10 Analyzed: 07/22/10						
Cyanide, total	0.098		mg/l	0.0999870		97.7	90-110			

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Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 19L1510 - 1L91506										
Cal Standard (19L1510-CAL1)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	0.455		mg/l	0.00000						
Cal Standard (19L1510-CAL2)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	7.86		mg/l	10.0000		78.6				
Cal Standard (19L1510-CAL3)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	22.4		mg/l	20.0000		112				
Cal Standard (19L1510-CAL4)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	74.8		mg/l	75.0000		99.8				
Cal Standard (19L1510-CAL5)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	99.0		mg/l	100.000		99.0				
Cal Standard (19L1510-CAL6)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	151		mg/l	150.000		100				
Calibration Check (19L1510-CCV1)				Prepared & Analyzed: 12/15/09						
Chemical Oxygen Demand	79.3		mg/l	75.0000		106	80-120			
Batch 1G01328 - General Prep Micro										
Blank (1G01328-BLK1)				Prepared & Analyzed: 07/14/10						
CBOD (5 day)	ND	4	mg/l							
Duplicate (1G01328-DUP1)		Source: 10G0601-01		Prepared & Analyzed: 07/14/10						
BOD (5 day)	> 1037	4	mg/l		> 1037			0.00	30	
CBOD (5 day)	> 1037	4	"		> 1037			0.00	30	

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G01328 - General Prep Micro										
Reference (1G01328-SRM1)				Prepared & Analyzed: 07/14/10						
CBOD (5 day)	419	4	mg/l	406.560		103	84.6-115.4			
Batch 1G01416 - Wet Chem Preparation										
Blank (1G01416-BLK1)				Prepared & Analyzed: 07/14/10						
Chemical Oxygen Demand	ND	10	mg/l							
LCS (1G01416-BS1)				Prepared & Analyzed: 07/14/10						
Chemical Oxygen Demand	66.1	10	mg/l	75.0000		88.2	87-115			
Matrix Spike (1G01416-MS1)	Source: 10G0587-01			Prepared & Analyzed: 07/14/10						
Chemical Oxygen Demand	488	80	mg/l	300.000	280	69.3	60-140			
Matrix Spike Dup (1G01416-MSD1)	Source: 10G0587-01			Prepared & Analyzed: 07/14/10						
Chemical Oxygen Demand	516	80	mg/l	300.000	280	78.7	60-140	5.64	26	
Batch 1G01436 - Wet Chem Preparation										
Blank (1G01436-BLK1)				Prepared & Analyzed: 07/15/10						
Oil and Grease	ND	4	mg/l							
Oil/Grease, animal/vegetable	ND	4	"							
Oil/Grease, petroleum	ND	4	"							
LCS (1G01436-BS1)				Prepared & Analyzed: 07/15/10						
Oil and Grease	34	4	mg/l	40.0000		85.5	78-114			
Oil/Grease, animal/vegetable	19	4	"	20.0000		94.5	64-132			
Oil/Grease, petroleum	15	4	"	20.0000		76.5	64-132			

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Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G01436 - Wet Chem Preparation										
Matrix Spike (1G01436-MS1)	Source: 10G0457-01			Prepared & Analyzed: 07/15/10						
Oil and Grease	45	4	mg/l	40.0000	5	98.7	78-114			
Oil/Grease, animal/vegetable	28	4	"	20.0000	5	114	64-132			
Oil/Grease, petroleum	17	4	"	20.0000	ND	86.0	64-132			
Matrix Spike Dup (1G01436-MSD1)	Source: 10G0457-01			Prepared & Analyzed: 07/15/10						
Oil and Grease	44	4	mg/l	40.0000	5	95.9	78-114	2.48	18	
Oil/Grease, animal/vegetable	26	4	"	20.0000	5	105	64-132	4.43	34	
Oil/Grease, petroleum	17	4	"	20.0000	ND	86.5	64-132	0.580	34	
Batch 1G01531 - Wet Chem Preparation										
Blank (1G01531-BLK1)				Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	ND	0.50	mg/l							
LCS (1G01531-BS1)				Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	19.6	0.50	mg/l	20.0000		97.8	84-120			
Matrix Spike (1G01531-MS1)	Source: 10G0702-01			Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	10.9	0.50	mg/l	10.0000	1.55	93.2	83-129			
Matrix Spike Dup (1G01531-MSD1)	Source: 10G0702-01			Prepared & Analyzed: 07/16/10						
Nitrogen, Kjeldahl, total	10.4	0.50	mg/l	10.0000	1.55	88.9	83-129	4.02	10	
Batch 1G01605 - Wet Chem Preparation										
Blank (1G01605-BLK1)				Prepared & Analyzed: 07/16/10						
Solids, total suspended	ND	1	mg/l							

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G01605 - Wet Chem Preparation										
LCS (1G01605-BS1)				Prepared & Analyzed: 07/16/10						
Solids, total suspended	16.1	1	mg/l	15.0000		107	75-114			
Duplicate (1G01605-DUP1)		Source: 10G0754-02		Prepared & Analyzed: 07/16/10						
Solids, total suspended	9.6	4	mg/l		10.0			4.08	30	
Batch 1G01606 - Wet Chem Preparation										
Blank (1G01606-BLK1)				Prepared & Analyzed: 07/16/10						
Nitrogen, Ammonia	ND	1.0	mg/l							
LCS (1G01606-BS1)				Prepared & Analyzed: 07/16/10						
Nitrogen, Ammonia	10.3	1.0	mg/l	10.0000		103	86-110			
Duplicate (1G01606-DUP1)		Source: 10G0683-02		Prepared & Analyzed: 07/16/10						
Nitrogen, Ammonia	ND	1.0	mg/l		ND				10	
Matrix Spike (1G01606-MS1)		Source: 10G0639-01		Prepared & Analyzed: 07/16/10						
Nitrogen, Ammonia	10.2	1.0	mg/l	10.0000	ND	102	82-110			
Reference (1G01606-SRM1)				Prepared & Analyzed: 07/16/10						
Nitrogen, Ammonia	9.9	1.0	mg/l	10.0000		99.1	75-125			
Batch 1G01918 - General Prep Micro										
Blank (1G01918-BLK1)				Prepared & Analyzed: 07/19/10						
CBOD (5 day)	ND	4	mg/l							

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G01918 - General Prep Micro										
Duplicate (1G01918-DUP1)		Source: 10G1016-04		Prepared & Analyzed: 07/19/10						
CBOD (5 day)	1180	4	mg/l		1120			5.33	30	
Reference (1G01918-SRM1)				Prepared & Analyzed: 07/19/10						
CBOD (5 day)	400	4	mg/l	406.360		98.4	84.6-115.4			
Batch 1G02064 - Wet Chem Preparation										
Blank (1G02064-BLK1)				Prepared & Analyzed: 07/21/10						
Cyanide, total	ND	0.007	mg/l							
LCS (1G02064-BS1)				Prepared & Analyzed: 07/21/10						
Cyanide, total	2.32	0.550	mg/l	2.33200		99.7	90-124			
Matrix Spike (1G02064-MS1)		Source: 10G0720-01		Prepared & Analyzed: 07/21/10						
Cyanide, total	0.029	0.007	mg/l	0.0200000	0.007	108	80-125			
Matrix Spike Dup (1G02064-MSD1)		Source: 10G0720-01		Prepared & Analyzed: 07/21/10						
Cyanide, total	0.027	0.007	mg/l	0.0200000	0.007	102	80-125	3.87	13	

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10G2007 - 1G01529										
Calibration Blank (10G2007-CCB1)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	-0.000489		mg/l	0.00000						
Calibration Blank (10G2007-CCB2)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.000252		mg/l	0.00000						
Calibration Blank (10G2007-CCB3)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.000611		mg/l	0.00000						
Calibration Blank (10G2007-CCB4)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.000205		mg/l	0.00000						
Calibration Blank (10G2007-CCB5)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.000667		mg/l	0.00000						
Calibration Blank (10G2007-CCB6)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.000757		mg/l	0.00000						
Calibration Blank (10G2007-CCB7)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00208		mg/l	0.00000						
Calibration Blank (10G2007-CCB8)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00202		mg/l	0.00000						
Calibration Blank (10G2007-CCB9)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.000942		mg/l	0.00000						
Calibration Blank (10G2007-CCBA)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00169		mg/l	0.00000						

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Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10G2007 - 1G01529										
Calibration Blank (10G2007-CCBB)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00142		mg/l	0.00000						
Calibration Blank (10G2007-CCBC)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00103		mg/l	0.00000						
Calibration Blank (10G2007-CCBD)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00255		mg/l	0.00000						
Calibration Blank (10G2007-CCBE)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	0.000741		mg/l	0.00000						
Calibration Blank (10G2007-CCBF)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	0.00100		mg/l	0.00000						
Calibration Blank (10G2007-CCBG)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	0.00106		mg/l	0.00000						
Calibration Check (10G2007-CCV1)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.970		mg/l	1.00000		97.0	90-110			
Calibration Check (10G2007-CCV2)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.975		mg/l	1.00000		97.5	90-110			
Calibration Check (10G2007-CCV3)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.975		mg/l	1.00000		97.5	90-110			
Calibration Check (10G2007-CCV4)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.972		mg/l	1.00000		97.2	90-110			

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Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Newton, IA 50208

Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10G2007 - 1G01529										
Calibration Check (10G2007-CCV5)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.985		mg/l	1.00000		98.5	90-110			
Calibration Check (10G2007-CCV6)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.970		mg/l	1.00000		97.0	90-110			
Calibration Check (10G2007-CCV7)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.980		mg/l	1.00000		98.0	90-110			
Calibration Check (10G2007-CCV8)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.988		mg/l	1.00000		98.8	90-110			
Calibration Check (10G2007-CCV9)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.995		mg/l	1.00000		99.5	90-110			
Calibration Check (10G2007-CCVA)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.985		mg/l	1.00000		98.5	90-110			
Calibration Check (10G2007-CCVB)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.977		mg/l	1.00000		97.7	90-110			
Calibration Check (10G2007-CCVC)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.986		mg/l	1.00000		98.6	90-110			
Calibration Check (10G2007-CCVD)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.986		mg/l	1.00000		98.6	90-110			
Calibration Check (10G2007-CCVE)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	0.986		mg/l	1.00000		98.6	90-110			

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Keystone LABORATORIES, INC.

MEMBER ACIL

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Ames, IA 50010

Work Order: 10G0601

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10G2007 - 1G01529										
Calibration Check (10G2007-CCVF)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	0.982		mg/l	1.00000		98.2	90-110			
Calibration Check (10G2007-CCVG)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	0.989		mg/l	1.00000		98.9	90-110			
High Cal Check (10G2007-HCV1)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	9.73		mg/l	10.0000		97.3	90-110			
Interference Check A (10G2007-IFA1)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00273		mg/l				80-120			
Interference Check A (10G2007-IFA2)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00369		mg/l				80-120			
Interference Check A (10G2007-IFA3)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	-0.00302		mg/l				80-120			
Interference Check A (10G2007-IFA4)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00120		mg/l				80-120			
Low Cal Check (10G2007-LCV1)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.00649		mg/l	0.00500000		130	70-130			
Low Cal Check (10G2007-LCV2)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.0110		mg/l	0.0100000		110	70-130			
Low Cal Check (10G2007-LCV3)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.0200		mg/l	0.0200000		100	70-130			

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2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10G2007 - 1G01529										
Low Cal Check (10G2007-LCV4)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.0306		mg/l	0.0300000		102	70-130			
Low Cal Check (10G2007-LCV5)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.0502		mg/l	0.0500000		100	70-130			
Low Cal Check (10G2007-LCV6)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	0.103		mg/l	0.100000		103	70-130			
Secondary Cal Check (10G2007-SCV1)				Prepared & Analyzed: 07/20/10						
Molybdenum, total	2.07		mg/l	2.00000		104	90-110			
Secondary Cal Check (10G2007-SCV3)				Prepared: 07/20/10 Analyzed: 07/21/10						
Molybdenum, total	1.99		mg/l	2.00000		99.5	90-110			
Batch 1G01529 - EPA 3010A Total ICP										
Blank (1G01529-BLK1)				Prepared: 07/15/10 Analyzed: 07/20/10						
Molybdenum, total	ND	0.010	mg/l							
LCS (1G01529-BS1)				Prepared: 07/15/10 Analyzed: 07/20/10						
Molybdenum, total	0.217	0.010	mg/l	0.200000		108	89-124			
Matrix Spike (1G01529-MS1)		Source: 10G0621-01		Prepared: 07/15/10 Analyzed: 07/20/10						
Molybdenum, total	0.220	0.010	mg/l	0.200000	0.0140	103	84-124			
Matrix Spike Dup (1G01529-MSD1)		Source: 10G0621-01		Prepared: 07/15/10 Analyzed: 07/20/10						
Molybdenum, total	0.229	0.010	mg/l	0.200000	0.0140	108	84-124	4.18	12	

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MEMBER ACIL

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Ames, IA 50010

Work Order: 10G0601

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G01529 - EPA 3010A Total ICP										
Post Spike (1G01529-PS1)		Source: 10G0601-01		Prepared: 07/15/10 Analyzed: 07/20/10						
Molybdenum, total	1.12		mg/l	1.00000	0.0237	110	90-116			

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Certified Analyses included in this Report

Method/Matrix	Analyte	Certifications
4500CN-E in Water		
	Cyanide, total	IA-NT,KS-NT,NELAC
EPA 1664 in Water		
	Oil and Grease	IA-NT,KS-NT,NELAC
	Oil/Grease, animal/vegetable	IA-NT,KS-NT,NELAC
	Oil/Grease, petroleum	IA-NT,KS-NT,NELAC
EPA 200.7 in Water		
	Aluminum, total	SIA1X
	Barium, total	SIA1X
	Cadmium, total	SIA1X
	Calcium, total	SIA1X
	Chromium, total	SIA1X
	Cobalt, total	SIA1X
	Copper, dissolved	SIA1X
	Copper, total	SIA1X
	Iron, total	SIA1X
	Lead, dissolved	SIA1X
	Lead, total	SIA1X
	Magnesium, total	SIA1X
	Manganese, total	SIA1X
	Molybdenum, total	SIA1X
	Nickel, total	SIA1X
	Potassium, total	SIA1X
	Silver, total	SIA1X
	Sodium, total	SIA1X
	Zinc, dissolved	SIA1X
	Zinc, total	SIA1X
	Hardness, Total as CaCO3	KS-NT,NELAC
EPA 351.2 in Water		
	Nitrogen, Kjeldahl, total	SIA1X
EPA 410.4 in Water		
	Chemical Oxygen Demand	IA-NT,KS-NT,NELAC
EPA 6010B in Soil		
	Aluminum, total	KS-NT,NELAC

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Sauer-Danfoss
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Ames, IA 50010

Work Order: 10G0601

	Arsenic, total	KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Molybdenum, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Potassium, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	KS-NT,NELAC
	Zinc, total	IA-NT,KS-NT,NELAC
EPA 6010B in Solid		
	Arsenic, total	KS-NT
	Chromium, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
SM 2550 B in Water		
	Temperature	SIA1X
SM 3120B in Water		
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Silver, total	IA-NT,KS-NT,NELAC
	Zinc, total	IA-NT,KS-NT,NELAC
SM 4500-NH3 B,E in Water		
	Nitrogen, Ammonia	KS-NT,NELAC
SM 5210 B in Water		
	BOD (5 day)	SIA1X
	CBOD (5 day)	SIA1X
USGS I-3765-85 in Water		
	Solids, total suspended	SIA1X

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

Code	Description	Number	Expires
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010
SIA1X	Iowa Department of Natural Resources	95	09/01/2010

Notes and Definitions

R-GT > 1037

R-GT > 1037

End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.
600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451
FAX: 641-792-7989

Page 1 of 1
Printed: 1/1/2010 4:23:44PM

SITE INFORMATION
Sampler: RPike
Project: Quarterly Waste Pretreatment Pretreatment

REPORT TO
Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

INVOICE TO
Accounts Payable
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

SPECIAL INSTRUCTIONS
None
Turn Around Time
☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY
Work Order: 10G0601
Temperature
Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received On Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Temp	Flow	pH	Analyses	Lab Sample Number
01-001	Front Parking Lot North Manhole	Water		7/14/10	11:25				ag-pesticide-1144 nn-3917 ni-3-3200c nh-3218 cn-4-500c cod-4-410.4 p-4-500 alk-3112 un-1705-45	01

Relinquished By: Rpike 7/14/10 13:25 Date/Time
Received By: Date/Time
Relinquished By: R. Pike 7/13/10 Date/Time
Received for Lab By: Date/Time 13:25
Remarks:

10G0601

2548

SAMPLER ID# 1182518539 10:35 13-JUL-10
Hardware: A1 Software: 2.31
********** PROGRAM SETTINGS **********

SITE DESCRIPTION:
"SAUR-DANFO"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"
V-NOTCH

1, 9.80 lit BTLS

25 ft SUCTION LINE

PACING:
FLOW, EVERY
300.0 gal

COMPOSITE:

120 SAMPLES

---

70 ml SAMPLES

NO DELAY TO START

24 HOURS RUN TIME

SAMPLER ID# 1182518539 10:35 13-JUL-10
Hardware: A1 Software: 2.31
********** SAMPLING RESULTS **********
SITE: SAUR-DANFO
Program Started at 09:44 MO 12-JUL-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	SOURCE	ERROR	COUNT TO LIQUID
		09:44	PGM	ENABLED	
1	1	09:58		F	719
2	1	10:10		F	743
3	1	10:26		F	744
4	1	10:41		F	748

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2548

5	1	10:57	F		750
6	1	11:11	F		748
7	1	11:31	F		752
8	1	11:40	F		754
9	1	11:48	F		1134
10	1	11:56	F	NM	-
11	1	12:04	F		878
12	1	12:11	F		770
13	1	12:22	F		764
14	1	12:32	F		761
15	1	12:41	F		764
16	1	12:49	F		758
17	1	12:57	F		758
18	1	13:04	F		758
19	1	13:12	F		746
20	1	13:20	F		753
21	1	13:27	F		752
22	1	13:35	F		752
23	1	13:42	F		748
24	1	13:49	F		741
25	1	13:56	F		740
26	1	14:01	F		748
27	1	14:08	F		739
28	1	14:15	F		736
29	1	14:23	F		746
30	1	14:30	F		749
31	1	14:37	F		750
32	1	14:44	F		750
33	1	14:51	F		752
34	1	14:59	F		756
35	1	15:07	F		752
36	1	15:16	F		750
37	1	15:24	F		746
38	1	15:33	F		742
39	1	15:43	F		752
40	1	15:58	F		748
41	1	16:12	F		746
42	1	16:30	F		742
43	1	16:51	F		743
44	1	17:12	F		746
45	1	17:30	F		740
46	1	17:46	F		744
47	1	18:04	F		741
48	1	18:24	F		736
49	1	18:43	F		737
50	1	19:06	F		742
51	1	19:52	F		734
52	1	20:17	F		730
53	1	20:38	F		726
54	1	21:01	F		724
55	1	21:26	F		729
56	1	21:50	F		721
57	1	22:12	F		720
58	1	22:27	F		724
59	1	22:36	F		776
60	1	22:46	F		728
61	1	23:00	F		720
62	1	23:13	F		724
63	1	23:28	F		722
64	1	23:43	F		719
65	1	23:56	F		722
TU 13-JUL-10					
66	1	00:14	F		722

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Newton, Ia 50208

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

				2548
67	1	00:51	F	712
68	1	01:28	F	713
69	1	02:07	F	712
70	1	02:36	F	706
71	1	03:02	F	706
72	1	03:09	F	722
73	1	03:14	F	722
74	1	03:22	F	717
75	1	03:34	F	718
76	1	03:45	F	718
77	1	03:56	F	714
78	1	04:08	F	716
79	1	04:19	F	712
80	1	04:30	F	714
81	1	04:42	F	716
82	1	04:53	F	714
83	1	05:04	F	713
84	1	05:15	F	716
85	1	05:28	F	714
86	1	05:42	F	712
87	1	05:55	F	714
88	1	06:07	F	716
89	1	06:19	F	713
90	1	06:29	F	718
91	1	06:4_	F	716
92	1	06:52	F	718
93	1	07:02	F	717
94	1	07:14	F	720
95	1	07:29	F	717
96	1	07:47	F	716
97	1	08:06	F	715
98	1	08:26	F	717
99	1	08:59	F	720
100	1	09:32	F	734
		09:44	PGM DONE 13-JUL	

SOURCE F ==> FLOW
ERROR NM ==> NO MORE LIQUID!

SAMPLER ID# 1182518539 10:36 13-JUL-10
Hardware: A1 Software: 2.31
BUBBLER MODULE: 1160556497
Hardware: A0 Software: 1.07
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 09:44 MO 12-JUL-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	LEVEL ft	FLOW RATE gpm	TOTAL FLOW gal
1	1	09:58	0.413	21.75	0000000300
2	1	10:10	0.427	24.80	0000000600
3	1	10:26	0.404	19.62	0000000900
4	1	10:41	0.397	18.29	0000001200
5	1	10:57	0.410	21.02	0000001500
6	1	11:11	0.397	18.29	0000001790
7	1	11:31	0.459	33.96	0000002100

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Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Newton IA 50208

Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

					2548
8	1	11:40	0.449	30.79	0000002390
9	1	11:48	0.472	38.31	0000002690
10	1	11:56	0.479	40.37	0000003000
11	1	12:04	0.479	40.37	0000003300
12	1	12:11	0.459	33.96	0000003600
13	1	12:22	0.436	27.26	0000003900
14	1	12:32	0.463	35.08	0000004200
15	1	12:41	0.469	37.25	0000004500
16	1	12:49	0.456	32.86	0000004800
17	1	12:57	0.479	40.37	0000005100
18	1	13:04	0.489	43.35	0000005400
19	1	13:12	0.476	39.35	0000005700
20	1	13:20	0.472	38.31	0000006000
21	1	13:27	0.479	40.37	0000006300
22	1	13:35	0.482	41.38	0000006600
23	1	13:42	0.486	42.37	0000006900
24	1	13:49	0.476	39.35	0000007200
25	1	13:56	0.512	49.78	0000007500
26	1	14:01	0.502	47.11	0000007800
27	1	14:08	0.492	44.31	0000008100
28	1	14:15	0.472	38.31	0000008400
29	1	14:23	0.472	38.31	0000008700
30	1	14:30	0.489	43.35	0000009000
31	1	14:37	0.486	42.37	0000009300
32	1	14:44	0.479	40.37	0000009600
33	1	14:51	0.466	36.17	0000009900
34	1	14:59	0.463	35.08	0000010200
35	1	15:07	0.476	39.35	0000010500
36	1	15:16	0.463	35.08	0000010800
37	1	15:24	0.472	38.31	0000011100
38	1	15:33	0.449	30.79	0000011400
39	1	15:43	0.430	25.61	0000011700
40	1	15:55	0.387	16.39	0000012000
41	1	16:12	0.384	15.79	0000012300
42	1	16:30	0.377	14.63	0000012600
43	1	16:51	0.384	15.79	0000012900
44	1	17:12	0.397	18.29	0000013200
45	1	17:30	0.404	19.62	0000013500
46	1	17:46	0.381	15.20	0000013800
47	1	18:04	0.404	19.62	0000014100
48	1	18:24	0.384	15.79	0000014400
49	1	18:43	0.374	14.07	0000014700
50	1	19:06	0.335	8.368	0000015000
51	1	19:52	0.358	11.46	0000015300
52	1	20:17	0.364	12.46	0000015600
53	1	20:38	0.371	13.52	0000015900
54	1	21:01	0.374	14.07	0000016200
55	1	21:26	0.358	11.46	0000016500
56	1	21:50	0.404	19.62	0000016800
57	1	22:12	0.364	12.46	0000017100
58	1	22:27	0.449	30.79	0000017400
59	1	22:36	0.453	31.78	0000017700
60	1	22:46	0.430	25.61	0000018000
61	1	23:00	0.407	20.32	0000018300
62	1	23:15	0.420	23.24	0000018600
63	1	23:28	0.420	23.24	0000018900
64	1	23:43	0.410	21.02	0000019200
65	1	23:56	0.420	23.24	0000019500
			TU 13-JUL-10		
66	1	00:14	0.348	10.07	0000019800
67	1	00:51	0.331	7.977	0000020100
68	1	01:28	0.331	7.977	0000020400

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Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Newton IA 50208

					2548
69	1	02:07	0.328	7.590	0000020700
70	1	02:36	0.361	11.96	0000021000
71	1	03:02	0.413	21.75	0000021300
72	1	03:09	0.545	57.93	0000021600
73	1	03:14	0.548	58.68	0000021900
74	1	03:22	0.436	27.26	0000022200
75	1	03:34	0.430	25.61	0000022500
76	1	03:45	0.436	27.26	0000022800
77	1	03:56	0.430	25.61	0000023100
78	1	04:08	0.430	25.61	0000023400
79	1	04:19	0.436	27.26	0000023700
80	1	04:30	0.433	26.42	0000024000
81	1	04:42	0.433	26.42	0000024300
82	1	04:53	0.436	27.26	0000024600
83	1	05:04	0.430	25.61	0000024900
84	1	05:15	0.430	25.61	0000025200
85	1	05:28	0.423	24.01	0000025500
86	1	05:41	0.413	21.75	0000025800
87	1	05:55	0.417	22.48	0000026100
88	1	06:07	0.420	23.24	0000026400
89	1	06:19	0.459	33.96	0000026700
90	1	06:29	0.433	26.42	0000027000
91	1	06:41	0.430	25.61	0000027300
92	1	06:52	0.453	31.78	0000027600
93	1	07:02	0.430	25.61	0000027900
94	1	07:14	0.427	24.80	0000028200
95	1	07:29	0.390	17.01	0000028500
96	1	07:47	0.394	17.64	0000028800
97	1	08:06	0.384	15.79	0000029100
98	1	08:26	0.354	10.99	0000029400
99	1	08:59	0.354	10.99	0000029700
100	1	09:32	0.377	14.63	0000030000

```
SAMPLER ID# 1182518539  10:37 13-JUL-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 09:44 MO 12-JUL-10
Nominal Sample Volume =   70 ml
                          FR-TEMP
SAMPLE  BOTTLE TIME          C
------- ------ ----        ----
                     NO FR-TEMPERATURE
```

```
SAMPLER ID# 1182518539  10:37 13-JUL-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 09:44 MO 12-JUL-10
Nominal Sample Volume =   70 ml
SAMPLE  BOTTLE TIME
------- ------ ----------- ------ ----
                     NO RAIN GAUGE
```

Page 5


```
                                                  2548
SAMPLER ID# 1182518539  10:37 13-JUL-10
  Hardware:     A1  Software: 2.31
SDI-12 DATA
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 09:44 MO 12-JUL-10
Nominal Sample Volume =   70 ml

                     NO SDI-12 SONDE
```

Page 6

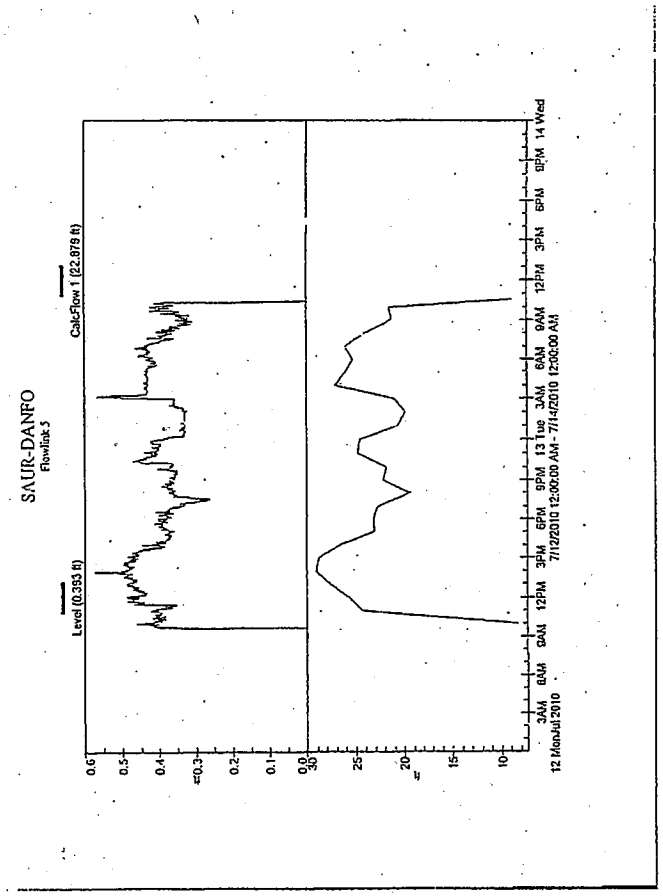
Keystone
LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10G0601

10G0601



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Phone 641-792-8451 600 East 17th Street South Fax 641-792-7939
Newton, IA 50208

Keystone Analytical

Report 8/20/2010

Keystone LABORATORIES, INC.

ANALYTICAL REPORT

August 20, 2010

Work Order: 10H1078

Report To	Work Order Information
Gary Erickson	Date Received: 08/19/2010 4:00PM
Sauer-Danfoss	Collector: Pryke
2800 E. 13th St.	Phone: 515-239-6539
Ames, IA 50010	PO Number: 4501353392

Project : Quarterly Waste Pretreatment

Project Number: Pretreatment

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
10H1078-01	Front Parking Lot North Manhole			Matrix:Water		Collected: 08/19/10 14:03	
Solids, total suspended	1110 mg/l	50	1H01933	USGS I-3765-85	LJG	08/19/10 14:11	I-06
Flow	38000 Gallons	1.0000	1H02012	Flow	JRP	08/19/10 14:05	
pH	7.6 pH	0.5	1H02012	SM 4500 H+ B	JRP	08/19/10 14:05	

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Keystone LABORATORIES, INC.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1H01933 - Wet Chem Preparation										
Blank (1H01933-BLK1)				Prepared & Analyzed: 08/19/10						
Solids, total suspended	ND	1	mg/l							
LCS (1H01933-BS1)				Prepared & Analyzed: 08/19/10						
Solids, total suspended	13.5	1	mg/l	15.0000		88.7	75-114			
Duplicate (1H01933-DUP1)				Prepared & Analyzed: 08/19/10						
Solids, total suspended	51.0	10	mg/l		57.0			11.1	30	

Source: 10H0867-01

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included in this Report

Method/Matrix	Analyte	Certifications
USGS I-3765-85 in Water		
	Solids, total suspended	SIA1X

Code	Description	Number	Expires
KS-NT	Kansas Department of Health and Environment	E-10287	10/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010
SIA1X	Iowa Department of Natural Resources	95	10/31/2010

Notes and Definitions

I-06 Analysis requested by client past EPA recommended hold time.

End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

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Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.
600 East 17th Street South
Newton, IA 50208
641-792-9451

Page 1 of 1
Printed: 8/18/2010 5:07:25PM
www.keystonelabs.com

SITE INFORMATION
Sampler: Ryker
Project: Quarterly Waste Pretreatment Pretreatment

REPORT TO
Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

INVOICE TO
Accounts Payable
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

SPECIAL INSTRUCTIONS
None
Turn Around Time: ☐ Standard ☐ RUSH, need by ___

LAB USE ONLY
Work Order: 10H1078
Temperature
Turn-Cooler: No

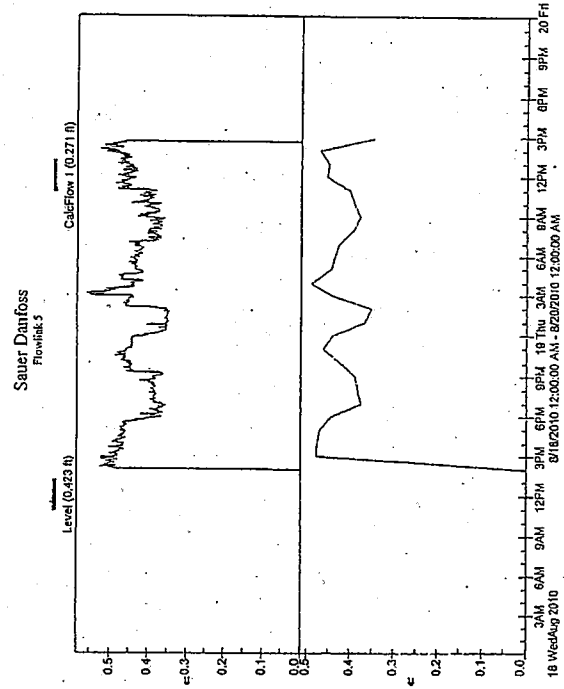
Custody Seal
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	Front Parking Lot North Manhole	Water		8/18/10	14:43		[illegible]	01

Relinquished By: [signature] 8/18/10 Date/Time
Received By: [signature] Date/Time 8/18/10 4:00
Relinquished By: [signature] Date/Time
Received By: Date/Time
Remarks: Sample for TSS received on sample taken 08/13/10

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

10H1078



2628

SAMPLER ID# 1182518539 14:54 19-AUG-10
Hardware: A1 Software: 2.31
********** PROGRAM SETTINGS **********

SITE DESCRIPTION:
"SAUR-DANFO"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
3"
V-NOTCH

1, 9.80 lit BTLS

25 ft SUCTION LINE

PACING:
FLOW, EVERY
400.0 gal

COMPOSITE:

120 SAMPLES

---

70 ml SAMPLES

NO DELAY TO START

24 HOURS RUN TIME

SAMPLER ID# 1182518539 14:54 19-AUG-10
Hardware: A1 Software: 2.31
********** SAMPLING RESULTS **********
SITE: SAUR-DANFO
Program Started at 14:03 WE 18-AUG-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	SOURCE	ERROR	COUNT TO LIQUID
		14:03	PGM	ENABLED	
1	1	14:13		F	743
2	1	14:21		F	766
3	1	14:30		F	772
4	1	14:38		F	772

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Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Nevada, IA 50201

2628

5	1	14:47	F	797
6	1	14:56	F	780
7	1	15:05	F	782
8	1	15:14	F	790
9	1	15:24	F	787
10	1	15:34	F	787
11	1	15:45	F	784
12	1	15:55	F	792
13	1	16:06	F	788
14	1	16:15	F	795
15	1	16:26	F	796
16	1	16:37	F	792
17	1	16:48	F	786
18	1	16:59	F	796
19	1	17:10	F	798
20	1	17:22	F	796
21	1	17:33	F	793
22	1	17:47	F	794
23	1	18:10	F	786
24	1	18:35	F	783
25	1	19:06	F	772
26	1	19:31	F	766
27	1	19:57	F	757
28	1	20:22	F	753
29	1	20:44	F	747
30	1	21:11	F	742
31	1	21:30	F	740
32	1	21:43	F	741
33	1	21:56	F	742
34	1	22:09	F	738
35	1	22:21	F	738
36	1	22:32	F	740
37	1	22:42	F	740
38	1	22:54	F	738
39	1	23:06	F	732
40	1	23:20	F	729
41	1	23:33	F	734
42	1	23:47	F	730
----------		TH 19-AUG-10		----------
43	1	00:03	F	727
44	1	00:32	F	730
45	1	01:07	F	724
46	1	01:45	F	721
47	1	02:12	F	723
48	1	02:24	F	727
49	1	02:36	F	725
50	1	02:49	F	726
51	1	03:02	F	730
52	1	03:09	F	729
53	1	03:16	F	734
54	1	03:24	F	736
55	1	03:33	F	730
56	1	03:43	F	728
57	1	03:57	F	730
58	1	04:12	F	730
59	1	04:24	F	736
60	1	04:35	F	730
61	1	04:48	F	730
62	1	05:05	F	725
63	1	05:20	F	725
64	1	05:34	F	726
65	1	05:49	F	726
66	1	06:04	F	732

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Nevada, IA 50201

				2628
67	1	06:20	F	723
68	1	06:36	F	725
69	1	06:53	F	725
70	1	07:08	F	728
71	1	07:32	F	722
72	1	07:57	F	722
73	1	08:24	F	722
74	1	08:53	F	726
75	1	09:13	F	730
76	1	09:39	F	736
77	1	10:01	F	742
78	1	10:20	F	740
79	1	10:42	F	746
80	1	11:04	F	752
81	1	11:15	F	764
82	1	11:28	F	770
83	1	11:39	F	776
84	1	11:51	F	782
85	1	12:04	F	785
86	1	12:16	F	787
87	1	12:30	F	786
88	1	12:43	F	788
89	1	12:56	F	788
90	1	13:08	F	789
91	1	13:19	F	794
92	1	13:31	F	800
93	1	13:43	F	804
94	1	13:52	F	808
95	1	14:01	F	800
		14:03	PGM DONE 19-AUG	

SOURCE F ==> FLOW

SAMPLER ID# 11S2518539 14:55 19-AUG-10
Hardware: A1 Software: 2.31
BUBBLER MODULE: 1160556497
Hardware: A0 Software: 1.07
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 14:03 WE 18-AUG-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	LEVEL ft	FLOW RATE gpm	TOTAL FLOW gal
1	1	14:13	0.509	48.90	0000000400
2	1	14:21	0.512	49.78	0000000800
3	1	14:30	0.499	46.19	0000001190
4	1	14:38	0.502	47.11	0000001590
5	1	14:47	0.512	49.78	0000001990
6	1	14:56	0.505	48.01	0000002390
7	1	15:05	0.486	42.37	0000002790
8	1	15:14	0.499	46.19	0000003190
9	1	15:24	0.472	38.31	0000003590
10	1	15:34	0.466	36.17	0000003990
11	1	15:45	0.499	46.19	0000004390
12	1	15:55	0.463	35.08	0000004790
13	1	16:06	0.479	40.37	0000005190

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					2628
14	1	16:15	0.486	42.37	0000005590
15	1	16:26	0.463	35.08	0000005990
16	1	16:37	0.472	38.31	0000006390
17	1	16:48	0.463	35.08	0000006790
18	1	16:59	0.459	33.96	0000007190
19	1	17:10	0.469	37.25	0000007590
20	1	17:22	0.459	33.96	0000007990
21	1	17:33	0.463	35.08	0000008390
22	1	17:47	0.430	25.61	0000008790
23	1	18:10	0.377	14.63	0000009190
24	1	18:35	0.381	15.20	0000009590
25	1	19:06	0.384	15.79	0000009990
26	1	19:31	0.387	16.39	0000010390
27	1	19:57	0.384	15.79	0000010790
28	1	20:22	0.384	15.79	0000011190
29	1	20:44	0.404	19.62	0000011590
30	1	21:11	0.367	12.99	0000011990
31	1	21:30	0.443	28.99	0000012390
32	1	21:43	0.463	35.08	0000012790
33	1	21:56	0.443	28.99	0000013190
34	1	22:09	0.456	32.86	0000013590
35	1	22:21	0.466	36.17	0000013990
36	1	22:32	0.486	42.37	0000014390
37	1	22:42	0.479	40.37	0000014800
38	1	22:54	0.456	32.86	0000015200
39	1	23:06	0.446	29.83	0000015600
40	1	23:20	0.446	29.83	0000016000
41	1	23:33	0.443	28.99	0000016400
42	1	23:47	0.443	28.99	0000016800
			TH 19-AUG-10		
43	1	00:03	0.433	21.75	0000017200
44	1	00:32	0.354	10.99	0000017600
45	1	01:07	0.351	10.52	0000018000
46	1	01:45	0.351	10.52	0000018400
47	1	02:12	0.453	31.78	0000018800
48	1	02:24	0.463	35.08	0000019200
49	1	02:36	0.453	31.78	0000019600
50	1	02:49	0.446	29.88	0000020000
51	1	03:02	0.538	56.39	0000020400
52	1	03:09	0.551	59.43	0000020800
53	1	03:16	0.518	51.50	0000021200
54	1	03:24	0.502	47.11	0000021600
55	1	03:33	0.505	48.01	0000022000
56	1	03:43	0.443	28.99	0000022400
57	1	03:57	0.440	28.11	0000022800
58	1	04:12	0.420	23.24	0000023200
59	1	04:24	0.469	37.25	0000023600
60	1	04:35	0.472	38.31	0000024000
61	1	04:48	0.433	21.75	0000024400
62	1	05:05	0.433	26.42	0000024800
63	1	05:20	0.433	26.42	0000025200
64	1	05:34	0.440	28.11	0000025600
65	1	05:49	0.436	27.26	0000026000
66	1	06:04	0.430	25.61	0000026400
67	1	06:20	0.430	25.61	0000026800
68	1	06:36	0.417	22.48	0000027200
69	1	06:53	0.427	24.80	0000027600
70	1	07:08	0.430	25.61	0000028000
71	1	07:32	0.377	14.63	0000028400
72	1	07:57	0.381	15.20	0000028800
73	1	08:24	0.364	12.46	0000029200
74	1	08:53	0.358	11.46	0000029600

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Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10H1078

2628

75	1	09:13	0.394	17.64	0000030000
76	1	09:39	0.374	14.07	0000030400
77	1	10:01	0.381	15.20	0000030800
78	1	10:20	0.404	19.62	0000031190
79	1	10:42	0.407	20.32	0000031590
80	1	11:04	0.456	32.86	0000031990
81	1	11:15	0.456	32.86	0000032390
82	1	11:28	0.466	36.17	0000032790
83	1	11:39	0.456	32.86	0000033190
84	1	11:51	0.449	30.79	0000033590
85	1	12:04	0.463	35.08	0000033990
86	1	12:16	0.456	32.86	0000034390
87	1	12:30	0.449	30.79	0000034790
88	1	12:43	0.456	32.86	0000035190
89	1	12:56	0.459	33.96	0000035590
90	1	13:08	0.466	36.17	0000035990
91	1	13:19	0.472	38.31	0000036390
92	1	13:31	0.449	30.79	0000036790
93	1	13:43	0.459	33.96	0000037200
94	1	13:52	0.505	48.01	0000037590
95	1	14:01	0.489	43.35	0000038000

```
SAMPLER ID# 1182518539  14:56 19-AUG-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 14:03 WE 18-AUG-10
Nominal Sample Volume =   70 ml
                          FR-TEMP
SAMPLE  BOTTLE TIME          C
------- ------ ----        ----
                    NO FR-TEMPERATURE
-----------------------------------------

SAMPLER ID# 1182518539  14:56 19-AUG-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 14:03 WE 18-AUG-10
Nominal Sample Volume =   70 ml
SAMPLE  BOTTLE TIME
------- ------ ---------- ------ ----
                    NO RAIN GAUGE
-----------------------------------------

SAMPLER ID# 1182518539  14:56 19-AUG-10
  Hardware:     A1  Software: 2.31
SDI-12 DATA
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 14:03 WE 18-AUG-10
Nominal Sample Volume =   70 ml

                    NO SDI-12 SONDE
-----------------------------------------
```

Page 5

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10H1078

2628

Page 6

Test America Analytical

Report 7/21/2010

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-26665-1

SDG Number: 500-26665-1

Job Description: Environmental Testing

For:
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser

Donna L. Ingersoll

Approved for release.
Donna L Ingersoll
Project Manager II
7/21/2010 3:07 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
07/21/2010

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-26665-1	27626-3RD QUARTER 2010				
1,1-Dichloroethane		0.0034	0.0010	mg/L	8260B
1,1-Dichloroethene		0.0070	0.0010	mg/L	8260B
Tetrachloroethene		0.34	0.010	mg/L	8260B
1,1,1-Trichloroethane		0.034	0.0010	mg/L	8260B
Trichloroethene		0.013	0.0010	mg/L	8260B
cis-1,2-Dichloroethene		0.025	0.0010	mg/L	8260B

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Method	Analyst	Analyst ID
SW846 8260B	Drabek, Dave J	DJD

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-26665-1	27626-3rd Quarter 2010	Water	07/14/2010 0800	07/15/2010 1030

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Client Sample ID: 27626-3rd Quarter 2010
Lab Sample ID: 500-26665-1

Date Sampled: 07/14/2010 0800
Date Received: 07/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	07/20/2010 1437		
Prep Method: 5030B		Date Prepared:	07/20/2010 1437		
Acetone	<0.0050	mg/L	0.0016	0.0050	1.0
1,1-Dichloroethane	0.0034	mg/L	0.00025	0.0010	1.0
1,1-Dichloroethene	0.0070	mg/L	0.00019	0.0010	1.0
1,1,1-Trichloroethane	0.034	mg/L	0.00018	0.0010	1.0
Trichloroethene	0.013	mg/L	0.00024	0.0010	1.0
Xylenes, Total	<0.0020	mg/L	0.00032	0.0020	1.0
trans-1,2-Dichloroethene	<0.0010	mg/L	0.00032	0.0010	1.0
cis-1,2-Dichloroethene	0.025	mg/L	0.00027	0.0010	1.0
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	83	%		80 - 115	
Dibromofluoromethane	83	%		80 - 124	
1,2-Dichloroethane-d4 (Surr)	99	%		80 - 129	
Toluene-d8 (Surr)	87	%		80 - 115	
Method: 8260B Run Type: DL		Date Analyzed:	07/20/2010 1501		
Prep Method: 5030B		Date Prepared:	07/20/2010 1501		
Tetrachloroethene	0.34	mg/L	0.0022	0.010	10
Surrogate				Acceptance Limits	
4-Bromofluorobenzene (Surr)	92	%		80 - 115	
Dibromofluoromethane	96	%		80 - 124	
1,2-Dichloroethane-d4 (Surr)	113	%		80 - 129	
Toluene-d8 (Surr)	100	%		80 - 115	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

QUALITY CONTROL RESULTS

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-89874					
LCS 500-89874/6	Lab Control Sample	T	Water	8260B	
MB 500-89874/5	Method Blank	T	Water	8260B	
500-26665-1	27626-3rd Quarter 2010	T	Water	8260B	
500-26665-1DL	27626-3rd Quarter 2010	T	Water	8260B	

Report Basis
T = Total

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
500-26665-1	27626-3rd Quarter 2010	83	83	99	87
500-26665-1 DL	27626-3rd Quarter 2010 DL	92	96	113	100
MB 500-89874/5		84	89	104	93
LCS 500-89874/6		94	96	111	101

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	80-115
DBFM = Dibromofluoromethane	80-124
DCA = 1,2-Dichloroethane-d4 (Surr)	80-129
TOL = Toluene-d8 (Surr)	80-115

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Method Blank - Batch: 500-89874

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-89874/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1010
Date Prepared: 07/20/2010 1010

Analysis Batch: 500-89874
Prep Batch: N/A
Units: mg/L

Instrument ID: CMS02
Lab File ID: 2M0720.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<0.0050		0.0016	0.0050
1,1-Dichloroethane	<0.0010		0.00025	0.0010
1,1-Dichloroethene	<0.0010		0.00019	0.0010
m&p-Xylene	<0.0020		0.00032	0.0020
o-Xylene	<0.0010		0.00038	0.0010
Tetrachloroethene	<0.0010		0.00022	0.0010
1,1,1-Trichloroethane	<0.0010		0.00018	0.0010
Trichloroethene	<0.0010		0.00024	0.0010
Xylenes, Total	<0.0020		0.00032	0.0020
trans-1,2-Dichloroethene	<0.0010		0.00032	0.0010
cis-1,2-Dichloroethene	<0.0010		0.00027	0.0010

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	80 - 115
Dibromofluoromethane	89	80 - 124
1,2-Dichloroethane-d4 (Surr)	104	80 - 129
Toluene-d8 (Surr)	93	80 - 115

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
Sdg Number: 500-26665-1

Lab Control Sample - Batch: 500-89874

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-89874/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/20/2010 1034
Date Prepared: 07/20/2010 1034

Analysis Batch: 500-89874
Prep Batch: N/A
Units: mg/L

Instrument ID: CMS02
Lab File ID: 2S0720.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.0250	0.0211	84	42 - 149	
1,1-Dichloroethane	0.0250	0.0173	69	67 - 122	
1,1-Dichloroethene	0.0250	0.0146	58	55 - 127	
m&p-Xylene	0.0500	0.0449	90	79 - 120	
o-Xylene	0.0250	0.0209	84	80 - 117	
Tetrachloroethene	0.0250	0.0250	100	76 - 116	
1,1,1-Trichloroethane	0.0250	0.0234	93	76 - 127	
Trichloroethene	0.0250	0.0234	94	77 - 118	
Xylenes, Total	0.0750	0.0658	88	79 - 120	
trans-1,2-Dichloroethene	0.0250	0.0176	70	67 - 125	
cis-1,2-Dichloroethene	0.0250	0.0163	65	65 - 115	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	80 - 115
Dibromofluoromethane	96	80 - 124
1,2-Dichloroethane-d4 (Surr)	111	80 - 129
Toluene-d8 (Surr)	101	80 - 115

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Chain of Custody Record

500-266665

Project Number: 10-233

Turnaround Time (circle one): Standard / Rush

For Rush Delivery, Specify Due Date:

Delivery Method: (circle one) Mail / Fax / Email

Deliver Report To: (check one)

[X] 221 East Main Street
Suite 200
Freeport, IL 61032
815-235-7643 phone
815-235-4632 fax
aschlosser@fehr-graham.com e-mail

[ ] 1920 Deimler Road
Rockford, IL 61112
815-394-4700 phone
815-394-4702 fax
bpaluzzi@fehr-graham.com e-mail

Internal Routing To: Daniel Stoehr

LAB USE ONLY
Login ID #
Login By
Lab Proj/ID #
Sample Temperature
Received on ice Y or N
Cooler Sealed Y or N
Comments:

Page 1 of 1

Retain Samples Y N

Sampled By: Daniel Stoehr

ANALYSIS REQUESTED (Specify Method if applicable)

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME OF COLLECTION	COMP	GRAB	HCl	NaOH	HNO3	H2SO4	NONE	OTHER	SAMPLE DESCRIPTION	VOC's - Method 8260 - (See attached sheet for reporting requests)					
27626 - 3rd Quarter 2010	7/14/2010	8am		x	3 4						Groundwater Effluent	X					

Extra sample vial (4 instead of 3) provided

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Daniel Stoehr	7.14.10	8:15am	[signature]	7-15-10	1030
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

3.2°C

Fehr-Graham & Associates

500-266665

Project:	10-233
Sample ID:	27626 - 3Q 2010
Sample Characteristics:	Groundwater Remediation Effluent
Sample to be collected on:	7.14.10
Number of samples:	One (1)
FGA Contact for questions:	Daniel Stoehr (815.266.2153)

Analyze for VOC's Method 8260 - Report only the following characteristics

- Acetone
- 1,1 - Dichloroethane
- 1,1 - Dichloroethene
- 1,1,1 - Trichloroethane
- Trichloroethene
- Tetrachloroethene
- Total Xylenes
- Cis 1,2 - Dichloroethene
- trans 1,2 - Dichloroethene

NOTE TO FGA STAFF: ONLY CIS 1,2 - DICHLOROETHENE WILL BE REPORTED PER MATT HAWES OF CITY OF AMES

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-26665-1
SDG Number: 500-26665-1

Login Number: 26665
Creator: James, Jeff A
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

Civil • Surveying • Municipal • Structural • EHS • IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

United States Postal Service
Priority Mail Number: EH 442118620 US

January 3, 2011

FILE COPY

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report –4th Quarter 2010

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy. If satisfactory, sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Please retain two additional copies and I will file next time I am on-site.

A hardcopy of the entire report must be received by the City of Ames no later than January 10, 2011.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

AS

Amy L. Schneiderman
Environmental Specialist

ALS:mll
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Enclosures

Recycled Paper

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
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Civil • Surveying • Municipal • Structural • EHS • IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

CERTIFIED MAIL NUMBER: 7008 0500 0000 0553 6067
RETURN RECEIPT REQUESTED

January 4, 2011

FILE COPY

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 4th Quarter 2010
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir or Madam:

Enclosed please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 4th quarter of 2010. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively and a summary of monthly flow in gals/month from the groundwater remediation project.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

PB

Amy L. Schneiderman
Environmental Specialist

ALS:mll
K:\Sec\SEC 2011\11-313\ALS 11-313 - 4th Qrtr Wastewater to City of Ames.doc
Enclosures

cc: Sauer-Danfoss (with enclosure)

Recycled Paper

Non-Domestic Waste Pretreatment Program
Quarterly Report
(Non-Significant, Non-Domestic Contributor)
4th Quarter 2010
Reporting Period: 10/1/2010 to 12/31/2010
Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
Permit No: 6593-7
Facility Contact: Gary Erickson
Facility Phone No: 515-239-6000
Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment Sample Port (GW Remediation)
Sample Type: Grab & 24 Hour Composite
Sample Date: **10/26/10 (GW Remediation)/ 11/3/10 (Wastewater)**

Analyte	Permit Limit Mg/L	Sample Results Mg/L
Facility	Sauer Danfoss 2800 East 13th	Sauer Danfoss 2800 East 13th
Flow	Gals/Day	25,200
pH	6-10 pH	6.90
TSS	1,500	822
Cyanide	0.55	0.008
Ammonia (NH3)	200	32.3
Total Kjeldahl Nitrogen (TKN)	250	104.0
Oil & Grease	300	106
CBOD 5	1,500	>1000
COD	2,500	2,490
Molybdenum	0.19	0.019
GW remediation	Max Expected Concentration ug/L	ug/L
Flow (remediation)	Gals/Qrtr	635,882
Acetone	44	< 5
1,1-Dichloroethane	370	5.1
1,1-Dichloroethene	170	12
cis- 1,2-Dichloroethene	490	37
Tetrachloroethene	1700	420
1,1,1-Trichloroethane	650	46
Trichloroethene	110	18
Total Xylenes	11	< 2

Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: Please see attached for Groundwater Remediation Flow Data. Results for initial sample collection are reported above. Subsequent analysis was below permit limits (1110 mg/l). Analytical reports for both are attached.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person (s) who manage the system, or those persons directly responsible for gathering the information, the information is, the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed _____ Date _____
Authorized Representative

Sauer-Danfoss
Ames, IA
Groundwater Remediation Flow Data

October 2010		251,149
November 2010		207,253
December 2010		177,480
Total flow (gals) 4th Quarter:	**635,882**	
	6,912	**gpd**

# of days in Quarter = 92

Keystone Analytical Report

11/15/10

Keystone LABORATORIES, INC.

MEMBER AGIL

ANALYTICAL REPORT

November 15, 2010

Work Order: 10K0158

Report To

Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order Information

Date Received: 11/03/2010 12:00PM
Collector: Pryke
Phone: 515-239-6539
PO Number: 4501353392

Project : Quarterly Waste Pretreatment
Project Number: Pretreatment

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
10K0158-01	Front Parking Lot North Manhole			Matrix: Water		Collected: 11/03/10 08:55	
CBOD (5 day)	> 1000 mg/l	4	1K00340	SM 5210 B	AKM	11/04/10 7:00	
Cyanide, total	0.008 mg/l	0.007	1K01015	4500CN-E	DRB	11/10/10 8:10	
Chemical Oxygen Demand	2490 mg/l	1000	1K00917	EPA 410.4	SAI	11/10/10 12:59	
Nitrogen, Ammonia	32.3 mg/l	1.0	1K00512	SM 4500-NH3 B,E	JDK	11/05/10 16:30	
Oil/Grease, animal/vegetable	103 mg/l	4	1K00908	EPA 1664	DRB	11/09/10 8:12	
Oil/Grease, petroleum	<4 mg/l	4	1K00908	EPA 1664	DRB	11/09/10 8:12	
Oil and Grease	106 mg/l	4	1K00908	EPA 1664	DRB	11/09/10 8:12	
Nitrogen, Kjeldahl, total	104 mg/l	25.0	1K01038	EPA 351.2	DRB	11/10/10 14:48	
Solids, total suspended	822 mg/l	20	1K00905	USGS I-3765-85	LJG	11/09/10 7:58	
Molybdenum, total	0.019 mg/l	0.010	1K00418	EPA 200.7	SAA	11/05/10 22:00	
Flow	25200 Gallons	1.0000	1K00502	Flow	AKM	11/03/10 8:55	
pH	6.9 pH	0.5	1K00502	SM 4500 H+ B	AKM	11/03/10 8:55	
Temperature	15.1 °C	0.00	1K00502	SM 2550 B	AKM	11/03/10 8:55	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Keystone LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K00340 - General Prep Micro										
Blank (1K00340-BLK1)				Prepared & Analyzed: 11/03/10						
CBOD (5 day)	ND	4	mg/l							
Duplicate (1K00340-DUP1)		Source: 10K0206-02		Prepared & Analyzed: 11/03/10						
CBOD (5 day)	313	4	mg/l		222			34.0	30	QR-04
Duplicate (1K00340-DUP2)		Source: 10K0212-01		Prepared & Analyzed: 11/03/10						
CBOD (5 day)	260	4	mg/l		246			5.53	30	
Reference (1K00340-SRM1)				Prepared & Analyzed: 11/03/10						
CBOD (5 day)	513	4	mg/l	402.600		127	84.6-115.4			QR-06
Batch 1K00512 - Wet Chem Preparation										
Blank (1K00512-BLK1)				Prepared & Analyzed: 11/05/10						
Nitrogen, Ammonia	ND	1.0	mg/l							
LCS (1K00512-BS1)				Prepared & Analyzed: 11/05/10						
Nitrogen, Ammonia	9.6	1.0	mg/l	10.0000		95.6	86-110			
Duplicate (1K00512-DUP1)		Source: 10K0174-01		Prepared & Analyzed: 11/05/10						
Nitrogen, Ammonia	ND	1.0	mg/l		ND				10	
Matrix Spike (1K00512-MS1)		Source: 10K0167-01		Prepared & Analyzed: 11/05/10						
Nitrogen, Ammonia	10.1	1.0	mg/l	10.0000	0.4	96.9	82-110			
Reference (1K00512-SRM1)				Prepared & Analyzed: 11/05/10						
Nitrogen, Ammonia	9.4	1.0	mg/l	10.0000		94.2	75-125			

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

November 15, 2010

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K00905 - Wet Chem Preparation										
Blank (1K00905-BLK1)				Prepared & Analyzed: 11/09/10						
Solids, total suspended	ND	1	mg/l							
LCS (1K00905-BS1)				Prepared & Analyzed: 11/09/10						
Solids, total suspended	14.5	1	mg/l	15.0000		96.7	75-114			
Duplicate (1K00905-DUP1)	Source: 10K0314-02			Prepared & Analyzed: 11/09/10						
Solids, total suspended	71.7	7	mg/l		75.0			4.57	30	
Batch 1K00908 - Wet Chem Preparation										
Blank (1K00908-BLK1)				Prepared & Analyzed: 11/09/10						
Oil and Grease	ND	4	mg/l							
Oil/Grease, animal/vegetable	ND	4	"							
Oil/Grease, petroleum	ND	4	"							
LCS (1K00908-BS1)				Prepared & Analyzed: 11/09/10						
Oil and Grease	36	4	mg/l	40.0000		90.2	78-114			
Oil/Grease, animal/vegetable	21	4	"	20.0000		107	64-132			
Oil/Grease, petroleum	15	4	"	20.0000		73.5	64-132			
Matrix Spike (1K00908-MS1)	Source: 10K0206-01			Prepared & Analyzed: 11/09/10						
Oil and Grease	60	4	mg/l	40.2414	17	108	78-114			
Oil/Grease, animal/vegetable	44	4	"	20.1207	17	133	64-132			QS-05
Oil/Grease, petroleum	17	4	"	20.1207	ND	83.5	64-132			
Matrix Spike Dup (1K00908-MSD1)	Source: 10K0206-01			Prepared & Analyzed: 11/09/10						
Oil and Grease	47	4	mg/l	40.4858	17	73.2	78-114	25.6	18	QS-07
Oil/Grease, animal/vegetable	30	4	"	20.2429	17	67.4	64-132	35.4	34	QR-04
Oil/Grease, petroleum	16	4	"	20.2429	ND	80.0	64-132	3.68	34	

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Keystone
LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K00917 - Wet Chem Preparation										
Blank (1K00917-BLK1)				Prepared: 11/09/10 Analyzed: 11/10/10						
Chemical Oxygen Demand	ND	10	mg/l							
LCS (1K00917-BS1)				Prepared: 11/09/10 Analyzed: 11/10/10						
Chemical Oxygen Demand	72.3	10	mg/l	77.3250		93.5	87-115			
Matrix Spike (1K00917-MS1)		Source: 10K0217-01		Prepared: 11/09/10 Analyzed: 11/10/10						
Chemical Oxygen Demand	795	200	mg/l	773.250	49.1	96.4	60-140			
Matrix Spike Dup (1K00917-MSD1)		Source: 10K0217-01		Prepared: 11/09/10 Analyzed: 11/10/10						
Chemical Oxygen Demand	840	200	mg/l	773.250	49.1	102	60-140	5.52	26	
Batch 1K01015 - Wet Chem Preparation										
Blank (1K01015-BLK1)				Prepared & Analyzed: 11/10/10						
Cyanide, total	ND	0.007	mg/l							
LCS (1K01015-BS1)				Prepared & Analyzed: 11/10/10						
Cyanide, total	0.023	0.007	mg/l	0.0200000		116	90-124			
Matrix Spike (1K01015-MS1)		Source: 10K0206-01		Prepared & Analyzed: 11/10/10						
Cyanide, total	0.037	0.007	mg/l	0.0200000	0.013	116	80-125			
Matrix Spike Dup (1K01015-MSD1)		Source: 10K0206-01		Prepared & Analyzed: 11/10/10						
Cyanide, total	0.036	0.007	mg/l	0.0200000	0.013	113	80-125	1.71	13	
Batch 1K01038 - Wet Chem Preparation										
Blank (1K01038-BLK1)				Prepared & Analyzed: 11/10/10						
Nitrogen, Kjeldahl, total	ND	0.50	mg/l							

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Keystone
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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

November 15, 2010

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K01038 - Wet Chem Preparation										
LCS (1K01038-BS1)				Prepared & Analyzed: 11/10/10						
Nitrogen, Kjeldahl, total	19.9	0.50	mg/l	20.0000		99.7	84-120			
Duplicate (1K01038-DUP1)		Source: 10J0548-05		Prepared & Analyzed: 11/10/10						
Nitrogen, Kjeldahl, total	29.4	0.50	mg/l		28.1			4.60	20	
Matrix Spike (1K01038-MS1)		Source: 10J0548-05		Prepared & Analyzed: 11/10/10						
Nitrogen, Kjeldahl, total	39.6	0.50	mg/l	10.0000	28.1	115	83-129			

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Sauer-Danfoss
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Ames, IA 50010

Work Order: 10K0158

November 15, 2010

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K00418 - EPA 3010A Total ICP										
Blank (1K00418-BLK1)				Prepared: 11/04/10 Analyzed: 11/05/10						
Molybdenum, total	ND	0.010	mg/l							
LCS (1K00418-BS1)				Prepared: 11/04/10 Analyzed: 11/05/10						
Molybdenum, total	0.214	0.010	mg/l	0.200000		107	85-115			
Matrix Spike (1K00418-MS1)		Source: 10K0162-02		Prepared: 11/04/10 Analyzed: 11/05/10						
Molybdenum, total	0.234	0.010	mg/l	0.200000	0.0182	108	70-130			
Matrix Spike Dup (1K00418-MSD1)		Source: 10K0162-02		Prepared: 11/04/10 Analyzed: 11/05/10						
Molybdenum, total	0.232	0.010	mg/l	0.200000	0.0182	107	70-130	0.928	20	
Post Spike (1K00418-PS1)		Source: 10K0162-02		Prepared: 11/04/10 Analyzed: 11/05/10						
Molybdenum, total	0.218		mg/l	0.200000	0.0180	99.9	85-115			

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

Certified Analyses included in this Report

Method/Matrix	Analyte	Certifications
4500CN-E in Water		
	Cyanide, total	IA-NT,KS-NT,NELAC
EPA 1664 in Water		
	Oil and Grease	IA-NT,KS-NT,NELAC
	Oil/Grease, animal/vegetable	IA-NT,KS-NT,NELAC
	Oil/Grease, petroleum	IA-NT,KS-NT,NELAC
EPA 200.7 in Water		
	Molybdenum, total	SIA1X
EPA 351.2 in Water		
	Nitrogen, Kjeldahl, total	SIA1X
EPA 410.4 in Water		
	Chemical Oxygen Demand	IA-NT,KS-NT,NELAC
SM 2550 B in Water		
	Temperature	SIA1X
SM 4500-NH3 B,E in Water		
	Nitrogen, Ammonia	KS-NT,NELAC
SM 5210 B in Water		
	CBOD (5 day)	SIA1X
USGS I-3765-85 in Water		
	Solids, total suspended	SIA1X

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2011
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2011
SIA1X	Iowa Department of Natural Resources	95	10/31/2010

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Keystone
LABORATORIES, INC.

MEMBER ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

Notes and Definitions

QR-04	The RPD for this analyte exceeded acceptance limits.
QR-06	The reference standard was outside of established control limits.
QS-05	The spike recovery for this QC sample exceeded established acceptance limits.
QS-07	The spike recovery for this QC sample was below established acceptance limits.
R-GT	> 1000

End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451
FAX: 641-792-7989

Page 1 of 1
Printed: 11/2/2010 7:12:42AM

SITE INFORMATION
Sampler: Pryke
Project: Quarterly Waste Pretreatment Pretreatment

REPORT TO
Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

INVOICE TO
Accounts Payable
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

SPECIAL INSTRUCTIONS
None

Turn Around Time
☐ Standard ☐ RUSH, need by __/__/__

LAB USE ONLY
Work Order 10K0158
Temperature
Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received On Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	Front Parking Lot North Manhole	Water		11 ~~10~~/3/10	8:05		temperature, mo-t-200.7, cbod-5210, cod-t-410.4, tkn-351.2, flow-total, og-profile-1664, nh3-4500be, cn-t-4500e, pb-field-4500, tss-i-3765-85	01

Relinquished By: [signature] Date/Time: 11/3/10 12:00
Received By: Date/Time:
Relinquished By: Date/Time:
Received for Lab By: [signature] Date/Time: 11/3/10 12:00

Remarks:

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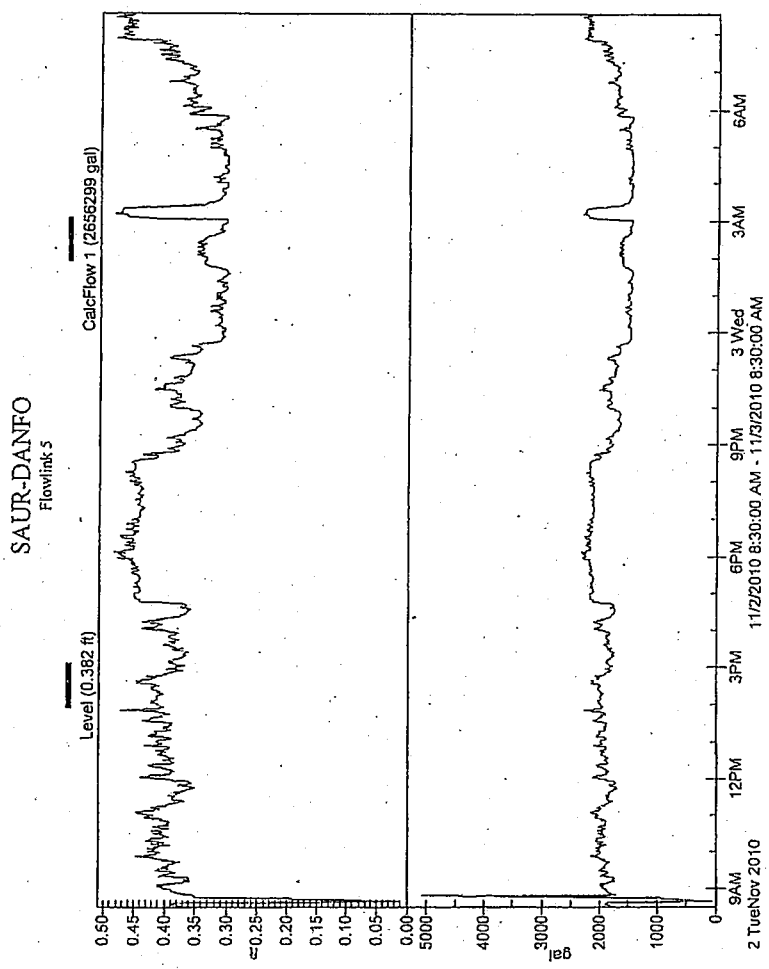
Phone 641-792-8451 600 East 17th Street South Newton, IA 50208 Fax 641-792-7989

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

10K0158



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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

November 15, 2010
Page 11 of 15

Work Order: 10K0158

3136

```
SAMPLER ID# 1182518539  09:18  3-NOV-10
  Hardware:     A1  Software: 2.31
*********** PROGRAM SETTINGS ***********
     ----------

 SITE DESCRIPTION:
    "SAUR-DANFO"

     ----------
   UNITS SELECTED:
   FLOW RATE: gpm
  FLOW VOLUME: gal

     ----------
   BUBBLER MODULE:
    FLOW-INSERT
         8"
      V-NOTCH
     ----------
   1, 9.80 lit BTLS

 25 ft SUCTION LINE

     ----------
      PACING:
    FLOW, EVERY
     350.0 gal

     ----------
     COMPOSITE:

    120 SAMPLES

     ----------

    70 ml SAMPLES


     ----------

 NO DELAY TO START

  24 HOURS RUN TIME
-----------------------------------------


SAMPLER ID# 1182518539  09:18  3-NOV-10
  Hardware:     A1  Software: 2.31
*********** SAMPLING RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 08:49 TU  2-NOV-10
Nominal Sample Volume =    70 ml
                                      COUNT
                                         TO
SAMPLE  BOTTLE TIME  SOURCE ERROR LIQUID
------- ------ ----  -- --   ------
              08:49  PGM ENABLED
    1     1   09:10      F          688
    2     1   09:32      F          693
    3     1   09:52      F          694
    4     1   10:06      F          704
                                     Page 1
```

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Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Newton, IA 50208

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: **10K0158**

3136

5	1	10:23	F	707
6	1	10:40	F	710
7	1	10:58	F	716
8	1	11:12	F	722
9	1	11:32	F	722
10	1	11:58	F	722
11	1	12:16	F	728
12	1	12:34	F	725
13	1	12:53	F	732
14	1	13:10	F	740
15	1	13:27	F	729
16	1	13:44	F	734
17	1	13:59	F	735
18	1	14:15	F	734
19	1	14:31	F	734
20	1	14:45	F	748
21	1	15:06	F	736
22	1	15:30	F	736
23	1	15:51	F	752
24	1	16:09	F	740
25	1	16:27	F	738
26	1	16:49	F	730
27	1	17:00	F	734
28	1	17:12	F	740
29	1	17:24	F	730
30	1	17:36	F	728
31	1	17:47	F	728
32	1	17:58	F	734
33	1	18:07	F	728
34	1	18:17	F	722
35	1	18:28	F	722
36	1	18:38	F	719
37	1	18:49	F	716
38	1	19:00	F	717
39	1	19:12	F	713
40	1	19:25	F	713
41	1	19:37	F	712
42	1	19:49	F	712
43	1	20:01	F	712
44	1	20:12	F	711
45	1	20:23	F	707
46	1	20:35	F	710
47	1	20:52	F	706
48	1	21:15	F	704
49	1	21:48	F	694
50	1	22:13	F	697
51	1	22:34	F	696
52	1	22:59	F	696
53	1	23:26	F	692
----------		WE 03-NOV-10		----------
54	1	00:15	F	698
55	1	01:14	F	692
56	1	02:06	F	692
57	1	02:49	F	689
58	1	03:11	F	694
59	1	03:20	F	691
60	1	04:07	F	689
61	1	05:10	F	688
62	1	05:59	F	688
63	1	06:30	F	684
64	1	06:59	F	688
65	1	07:24	F	689
66	1	07:43	F	696

Page 2

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				3136
67	1	07:55	F	696
68	1	08:05	F	696
69	1	08:15	F	696
70	1	08:25	F	697
71	1	08:35	F	705
72	1	08:45	F P	*
		08:45	POWER FAILED!	
		08:45	POWER RESTORED	
		08:49	PGM DONE 03-NOV	

SOURCE F ==> FLOW
ERROR P ==> POWER FAILED!

SAMPLER ID# 1182518539 09:18 3-NOV-10
Hardware: A1 Software: 2.31
BUBBLER MODULE: 1160556497
Hardware: A0 Software: 1.07
********** COMBINED RESULTS **********
SITE: SAUR-DANFO
Program Started at 08:49 TU 2-NOV-10
Nominal Sample Volume = 70 ml

SAMPLE	BOTTLE	TIME	LEVEL ft	FLOW RATE gpm	TOTAL FLOW gal
1	1	09:10	0.377	14.63	0000000340
2	1	09:32	0.407	20.32	0000000700
3	1	09:52	0.417	22.48	0000001050
4	1	10:06	0.417	22.48	0000001400
5	1	10:23	0.420	23.24	0000001750
6	1	10:40	0.410	21.02	0000002100
7	1	10:58	0.423	24.01	0000002450
8	1	11:12	0.407	20.32	0000002800
9	1	11:32	0.384	15.79	0000003150
10	1	11:58	0.397	18.29	0000003500
11	1	12:16	0.400	18.95	0000003850
12	1	12:34	0.387	16.39	0000004200
13	1	12:53	0.407	20.32	0000004550
14	1	13:10	0.427	24.80	0000004890
15	1	13:27	0.394	17.64	0000005240
16	1	13:44	0.400	18.95	0000005590
17	1	13:59	0.407	20.32	0000005950
18	1	14:15	0.410	21.02	0000006290
19	1	14:31	0.417	22.48	0000006640
20	1	14:45	0.430	25.61	0000007000
21	1	15:06	0.394	17.64	0000007350
22	1	15:30	0.381	15.20	0000007700
23	1	15:51	0.390	17.01	0000008050
24	1	16:09	0.407	20.32	0000008400
25	1	16:27	0.364	12.46	0000008750
26	1	16:49	0.440	28.11	0000009100
27	1	17:00	0.443	28.99	0000009450
28	1	17:12	0.446	29.88	0000009800
29	1	17:24	0.440	28.11	0000010150
30	1	17:36	0.446	29.88	0000010500
31	1	17:47	0.449	30.79	0000010850
32	1	17:58	0.479	40.37	0000011200
33	1	18:07	0.486	42.37	0000011550

Page 3

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

					3136
34	1	18:17	0.466	36.17	0000011900
35	1	18:28	0.453	31.78	0000012250
36	1	18:38	0.453	31.78	0000012600
37	1	18:49	0.443	28.99	0000012950
38	1	19:00	0.446	29.88	0000013300
39	1	19:12	0.440	28.11	0000013650
40	1	19:25	0.440	28.11	0000014000
41	1	19:37	0.436	27.26	0000014350
42	1	19:49	0.436	27.26	0000014700
43	1	20:01	0.449	30.79	0000015050
44	1	20:12	0.453	31.78	0000015400
45	1	20:23	0.449	30.79	0000015750
46	1	20:35	0.440	28.11	0000016100
47	1	20:52	0.394	17.64	0000016450
48	1	21:15	0.367	12.99	0000016800
49	1	21:48	0.344	9.627	0000017150
50	1	22:13	0.387	16.39	0000017500
51	1	22:34	0.404	19.62	0000017850
52	1	22:59	0.361	11.96	0000018200
53	1	23:26	0.361	11.96	0000018550
----------		WE	3-NOV-10	------	
54	1	00:15	0.315	6.180	0000018900
55	1	01:14	0.308	5.535	0000019250
56	1	02:06	0.348	10.07	0000019600
57	1	02:49	0.312	5.850	0000019950
58	1	03:11	0.486	42.37	0000020300
59	1	03:20	0.456	32.86	0000020650
60	1	04:07	0.315	6.180	0000021000
61	1	05:10	0.315	6.180	0000021350
62	1	05:59	0.348	10.07	0000021700
63	1	06:30	0.361	11.96	0000022050
64	1	06:59	0.348	10.07	0000022400
65	1	07:24	0.381	15.20	0000022750
66	1	07:43	0.404	19.62	0000023100
67	1	07:55	0.466	36.17	0000023450
68	1	08:05	0.472	38.31	0000023800
69	1	08:15	0.466	36.17	0000024150
70	1	08:25	0.482	41.38	0000024500
71	1	08:35	0.495	45.25	0000024850
72	1	08:45	0.453	31.78	0000025200

```
----------------------------------------

SAMPLER ID# 1182518539  09:19  3-NOV-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
Program Started at 08:49 TU  2-NOV-10
Nominal Sample Volume =    70 ml
                          FR-TEMP
SAMPLE  BOTTLE TIME          C
------- ------ ----        ----
                    NO FR-TEMPERATURE
----------------------------------------


SAMPLER ID# 1182518539  09:19  3-NOV-10
  Hardware:     A1  Software: 2.31
*********** COMBINED RESULTS ***********
   SITE: SAUR-DANFO
```


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Newton, IA 50208

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 10K0158

```
                                                  3136
Program Started at 08:49 TU  2-NOV-10
Nominal Sample Volume =   70 ml
SAMPLE  BOTTLE TIME
------- ------ ----------- ------ ----
                    NO RAIN GAUGE
----------------------------------------


SAMPLER ID# 1182518539  09:19  3-NOV-10
  Hardware:     A1  Software: 2.31
SDI-12 DATA
*********** COMBINED RESULTS ************
   SITE: SAUR-DANFO
Program Started at 08:49 TU  2-NOV-10
Nominal Sample Volume =   70 ml

                    NO SDI-12 SONDE
----------------------------------------
```


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Phone 641-792-8451 600 East 17th Street South Fax 641-792-7989
Newton, IA 50208

Test America Analytical Report

11/03/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-28820-1

SDG Number: 500-28820-1

Job Description: 10-233

For:
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser

Donna L. Ingersoll

Approved for release.
Donna L Ingersoll
Project Manager II
11/3/2010 2:49 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
11/03/2010

cc: Ms. Donna Ingersoll
Ms. Erin Jarrett

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
The GC/MS Volatile Instrument MS06 displayed an incorrect time due to a computer software error in the automatic daylight savings time correction. This error occurred on 10/31/10 at 2:00AM extending though 11/2/10 at 10:46AM. The time represented in the raw data and in the data report is one hour earlier than the actual analysis time. The 12 hour tune limit and hold time was met.

Method(s) 8260B: The laboratory control sample (LCS) for batch 98704 exceeded control limits for the following analyte:
1,1,1-Trichloroethane.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-28820-1	**28023-4TH QTR. 2010**					
1,1-Dichloroethane		0.0051		0.0010	mg/L	8260B
1,1-Dichloroethene		0.012		0.0010	mg/L	8260B
Tetrachloroethene		0.42		0.010	mg/L	8260B
1,1,1-Trichloroethane		0.046	*	0.0010	mg/L	8260B
Trichloroethene		0.018		0.0010	mg/L	8260B
trans-1,2-Dichloroethene		0.00050	J	0.0010	mg/L	8260B
cis-1,2-Dichloroethene		0.037		0.0010	mg/L	8260B

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Method	Analyst	Analyst ID
SW846 8260B	Manzano, Louis	LM

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-28820-1	28023-4th qtr. 2010	Water	10/26/2010 1100	10/27/2010 1030

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Client Sample ID: 28023-4th qtr. 2010
Lab Sample ID: 500-28820-1

Date Sampled: 10/26/2010 1100
Date Received: 10/27/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	11/01/2010 2132		
Prep Method: 5030B			Date Prepared:	11/01/2010 2132		
Acetone	<0.0050		mg/L	0.0016	0.0050	1.0
1,1-Dichloroethane	0.0051		mg/L	0.00025	0.0010	1.0
1,1-Dichloroethene	0.012		mg/L	0.00019	0.0010	1.0
1,1,1-Trichloroethane	0.046	*	mg/L	0.00018	0.0010	1.0
Trichloroethene	0.018		mg/L	0.00024	0.0010	1.0
Xylenes, Total	<0.0020		mg/L	0.00032	0.0020	1.0
trans-1,2-Dichloroethene	0.00050	J	mg/L	0.00032	0.0010	1.0
cis-1,2-Dichloroethene	0.037		mg/L	0.00027	0.0010	1.0
Surrogate				Acceptance Limits		
4-Bromofluorobenzene (Surr)	96		%	80 - 115		
Dibromofluoromethane	95		%	80 - 124		
1,2-Dichloroethane-d4 (Surr)	93		%	80 - 129		
Toluene-d8 (Surr)	107		%	80 - 120		
Method: 8260B Run Type: DL			Date Analyzed:	11/01/2010 2154		
Prep Method: 5030B			Date Prepared:	11/01/2010 2154		
Tetrachloroethene	0.42		mg/L	0.0022	0.010	10
Surrogate				Acceptance Limits		
4-Bromofluorobenzene (Surr)	95		%	80 - 115		
Dibromofluoromethane	96		%	80 - 124		
1,2-Dichloroethane-d4 (Surr)	94		%	80 - 129		
Toluene-d8 (Surr)	108		%	80 - 120		

DATA REPORTING QUALIFIERS

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-98704					
LCS 500-98704/6	Lab Control Sample	T	Water	8260B	
MB 500-98704/5	Method Blank	T	Water	8260B	
500-28820-1	28023-4th qtr. 2010	T	Water	8260B	
500-28820-1DL	28023-4th qtr. 2010	T	Water	8260B	

Report Basis
T = Total

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	DCA %Rec	TOL %Rec
500-28820-1	28023-4th qtr. 2010	96	95	93	107
500-28820-1 DL	28023-4th qtr. 2010 DL	95	96	94	108
MB 500-98704/5		91	93	91	102
LCS 500-98704/6		95	97	91	94

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene (Surr)	80-115
DBFM = Dibromofluoromethane	80-124
DCA = 1,2-Dichloroethane-d4 (Surr)	80-129
TOL = Toluene-d8 (Surr)	80-120

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Method Blank - Batch: 500-98704

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-98704/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/01/2010 1230
Date Prepared: 11/01/2010 1230

Analysis Batch: 500-98704
Prep Batch: N/A
Units: mg/L

Instrument ID: MS06
Lab File ID: 6M1101.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Acetone	<0.0050		0.0016	0.0050
1,1-Dichloroethane	<0.0010		0.00025	0.0010
1,1-Dichloroethene	<0.0010		0.00019	0.0010
m&p-Xylene	<0.0020		0.00032	0.0020
o-Xylene	<0.0010		0.00038	0.0010
Tetrachloroethene	<0.0010		0.00022	0.0010
1,1,1-Trichloroethane	<0.0010		0.00018	0.0010
Trichloroethene	<0.0010		0.00024	0.0010
Xylenes, Total	<0.0020		0.00032	0.0020
trans-1,2-Dichloroethene	<0.0010		0.00032	0.0010
cis-1,2-Dichloroethene	<0.0010		0.00027	0.0010

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	80 - 115
Dibromofluoromethane	93	80 - 124
1,2-Dichloroethane-d4 (Surr)	91	80 - 129
Toluene-d8 (Surr)	102	80 - 120

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
Sdg Number: 500-28820-1

Lab Control Sample - Batch: 500-98704

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-98704/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/01/2010 1251
Date Prepared: 11/01/2010 1251

Analysis Batch: 500-98704
Prep Batch: N/A
Units: mg/L

Instrument ID: MS06
Lab File ID: 6S1101.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	0.0250	0.0236	94	42 - 149	
1,1-Dichloroethane	0.0250	0.0275	110	67 - 122	
1,1-Dichloroethene	0.0250	0.0306	122	55 - 127	
m&p-Xylene	0.0500	0.0545	109	79 - 120	
o-Xylene	0.0250	0.0284	114	80 - 117	
Tetrachloroethene	0.0250	0.0271	109	76 - 116	
1,1,1-Trichloroethane	0.0250	0.0324	130	76 - 127	*
Trichloroethene	0.0250	0.0279	112	77 - 118	
Xylenes, Total	0.0750	0.0829	111	79 - 120	
trans-1,2-Dichloroethene	0.0250	0.0301	120	67 - 125	
cis-1,2-Dichloroethene	0.0250	0.0271	108	65 - 115	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	80 - 115
Dibromofluoromethane	97	80 - 124
1,2-Dichloroethane-d4 (Surr)	91	80 - 129
Toluene-d8 (Surr)	94	80 - 120

FEHR-GRAHAM & ASSOCIATES CHAIN OF CUSTODY RECORD

500-28820

Project Number : 10-233

Turnaround Time (cirle one) : Standard / Rush

For Rush Delivery, Specify Due Date:

Delivery Method : (cirle one) Mail / Fax / Email

Deliver Report To : (check one)

[X] 221 East Main Street
Suite 200
Freeport, IL 61032
815-235-7643 phone
815-235-4632 fax
aschlosser@fehr-graham.com e-mail

[ ] 1920 Daimler Road
Rockford, IL 61112
815-394-4700 phone
815-394-4702 fax
bpalluzzi@fehr-graham.com e-mail

Internal Routing To : Daniel Stoehr

LAB USE ONLY
Login ID # _____
Login By _____
Lab Proj/ID # _____
Sample Temperature _____
Received on ice Y or N
Comments:

Page 1 of 1

Retain Samples Y N

Sampled By: Daniel Stoehr

ANALYSIS REQUESTED (Specify Method if applicable)

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME OF COLLECTION	COMP	GRAB	Number and type of containers: HCl	NaOH	HNO3	H2SO4	NONE	OTHER	SAMPLE DESCRIPTION	VOC's - Method 8260 (See attached sheet for reporting requests)					
28023 - 4th Qtr. 2010	10-26-10	11:00am		X	3						Groundwater Effluent	X					

COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Amy Grimes	10-26-10	11:00am	[illegible]	10/27/10	1030
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

11/03/2010

Fehr-Graham & Associates

Project:	10-233
Sample ID:	280236 - 4Q 2010
Sample Characteristics:	Groundwater Remediation Effluent
Sample to be collected on:	10.26.10
Number of samples:	One (1)
FGA Contact for questions:	Amy Schlosser (815.235.7643)

Analyze for VOC's Method 8260 - Report only the following characteristics

Acetone
1,1 - Dichloroethane
1,1 - Dichloroethene
1,1,1 - Trichloroethane
Trichloroethene
Tetrachloroethene
Total Xylenes
Cis 1,2 - Dichloroethene
trans 1,2 - Dichloroethene

NOTE TO FGA STAFF: ONLY CIS 1,2 - DICHLOROETHENE WILL BE REPORTED PER MATT HAWES OF CITY OF AMES

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-28820-1
SDG Number: 500-28820-1

Login Number: 28820
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.3
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	labels on the vials are blank
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ATTACHMENT 3

Laboratory Report for October 20, 2010 Annual Sampling Event

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

November 04, 2010

Client:
FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032

Attn: Joel Zirkle

Work Order: CTJ1197
Project Name: Sauer Danfoss - Ames, Iowa
Project Number: 10-233

Date Received: 10/20/10

The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
28147 EB-01	CTJ1197-01	10/20/10 08:30
28148 MW-10	CTJ1197-02	10/20/10 15:54
28149 MW-11	CTJ1197-03	10/20/10 15:13
28150 MW-12	CTJ1197-04	10/20/10 14:37
28151 MW-R13	CTJ1197-05	10/20/10 11:47
28152 MW-18	CTJ1197-06	10/20/10 14:06
28153 MW-19	CTJ1197-07	10/20/10 13:34
28154 D-01	CTJ1197-08	10/20/10 13:34
28155 MW-20	CTJ1197-09	10/20/10 12:50
28156 MW-R30	CTJ1197-10	10/20/10 09:11
28157 MW-31	CTJ1197-11	10/20/10 10:07
28158 MW-32	CTJ1197-12	10/20/10 09:46
28159 MW-33	CTJ1197-13	10/20/10 16:51
28160 MW-34	CTJ1197-14	10/20/10 11:10
28161 EB-02	CTJ1197-15	10/20/10 17:15
28162 Trip Blank	CTJ1197-16	10/20/10 09:00

Samples were received into laboratory at a temperature of 5.30 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT 221 E. Main Street, Ste. 200 Freeport, IL 61032 Joel Zirkle	Work Order: CTJ1197 Project: Sauer Danfoss - Ames, Iowa Project Number: 10-233	Received: 10/20/10 Reported: 11/04/10 15:27	

Approved By:

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CTJ1197
Project: Sauer Danfoss - Ames, Iowa
Project Number: 10-233

Received: 10/20/10
Reported: 11/04/10 15:27

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-01 (28147 EB-01 - Water)					**Sampled: 10/20/10 08:30**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 11:45	sjn	10J1375	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	10/23/10 11:45	sjn	10J1375	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*88 %*								
Surr: Toluene-d8 (80-120%)	*98 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*93 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<2.0		ug/l	2.0	1	10/29/10 18:22	GMK	10J3516	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*102 %*								
Sample ID: CTJ1197-02 (28148 MW-10 - Ground Water)					**Sampled: 10/20/10 15:54**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 22:03	sjn	10J1384	SW 8260B
1,1-Dichloroethane	**18.7**		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
1,1-Dichloroethene	**56.7**		ug/L	2.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	**25.2**		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
Tetrachloroethene	**504**		ug/L	10.0	10	10/27/10 10:35	sjn	10J1467	SW 8260B
1,1,1-Trichloroethane	**307**		ug/L	5.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
Trichloroethene	**30.7**		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/23/10 22:03	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*96 %*								
Surr: Dibromofluoromethane (75-120%)	*101 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								
Surr: Toluene-d8 (80-120%)	*97 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*96 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*102 %*								

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CTJ1197
Project: Sauer Danfoss - Ames, Iowa
Project Number: 10-233

Received: 10/20/10
Reported: 11/04/10 15:27

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-02 (28148 MW-10 - Ground Water) - cont.					**Sampled: 10/20/10 15:54**		**Recvd: 10/20/10 19:00**		
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	**21**		ug/l	2.0	1	10/29/10 18:51	GMK	10J3516	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*119 %*								
Sample ID: CTJ1197-03 (28149 MW-11 - Ground Water)					**Sampled: 10/20/10 15:13**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 22:27	sjn	10J1384	SW 8260B
1,1-Dichloroethane	**6.67**		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
1,1-Dichloroethene	**16.8**		ug/L	2.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	**31.2**		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
Tetrachloroethene	**469**	CIN	ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	**106**		ug/L	5.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
Trichloroethene	**19.8**		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/23/10 22:27	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*95 %*								
Surr: Toluene-d8 (80-120%)	*98 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*96 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	**5.8**		ug/l	2.0	1	10/29/10 19:20	GMK	10J3516	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*118 %*								
Sample ID: CTJ1197-04 (28150 MW-12 - Ground Water)					**Sampled: 10/20/10 14:37**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 22:50	sjn	10J1384	SW 8260B
1,1-Dichloroethane	**2.46**		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
1,1-Dichloroethene	**19.4**		ug/L	2.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
Tetrachloroethene	**225**	CIN	ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	**20.4**		ug/L	5.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
Trichloroethene	**1.17**		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B

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Sample ID: CTJ1197-04 (28150 MW-12 - Ground Water) - cont.					**Sampled: 10/20/10 14:37**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds - cont.									
Xylenes, total	<6.00		ug/L	6.00	1	10/23/10 22:50	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*90 %*								
Surr: Toluene-d8 (80-120%)	*99 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*100 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<2.0		ug/l	2.0	1	10/29/10 19:49	GMK	10J3516	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*109 %*								
Sample ID: CTJ1197-05 (28151 MW-R13 - Ground Water)					**Sampled: 10/20/10 11:47**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 23:12	sjn	10J1384	SW 8260B
1,1-Dichloroethane	**2860**	C9	ug/L	100	100	10/25/10 23:34	sjn	10J1459	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
1,1-Dichloroethene	**5110**	C9	ug/L	200	100	10/25/10 23:34	sjn	10J1459	SW 8260B
cis-1,2-Dichloroethene	**40.5**		ug/L	1.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	**2.37**		ug/L	1.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
Methylene Chloride	**30.5**		ug/L	5.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
Tetrachloroethene	**10300**	CIN	ug/L	100	100	10/25/10 23:34	sjn	10J1459	SW 8260B
1,1,1-Trichloroethane	**6240**		ug/L	500	100	10/25/10 23:34	sjn	10J1459	SW 8260B
1,1,2-Trichloroethane	**325**		ug/L	1.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
Trichloroethene	**45.8**		ug/L	1.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
Vinyl chloride	**66.4**		ug/L	1.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/23/10 23:12	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*81 %*								
Surr: Dibromofluoromethane (75-120%)	*77 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*98 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*96 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/26/10 08:42	cmm	10J1299	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	**92**		ug/l	80	40	11/01/10 21:23	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*116 %*								
Sample ID: CTJ1197-06 (28152 MW-18 - Ground Water)					**Sampled: 10/20/10 14:06**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/26/10 11:05	sjn	10J1462	SW 8260B
1,1-Dichloroethane	**3.54**		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
1,1-Dichloroethene	**29.7**		ug/L	2.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B

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Sample ID: CTJ1197-06 (28152 MW-18 - Ground Water) - cont.					**Sampled: 10/20/10 14:06**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds - cont.									
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
Tetrachloroethene	**309**		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
1,1,1-Trichloroethane	**38.0**		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
Trichloroethene	**1.47**		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	10/26/10 11:05	sjn	10J1462	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*99 %*								
Surr: Toluene-d8 (80-120%)	*99 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*97 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<2.0		ug/l	2.0	1	11/01/10 19:27	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*113 %*								
Sample ID: CTJ1197-07 (28153 MW-19 - Ground Water)					**Sampled: 10/20/10 13:34**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 23:58	sjn	10J1384	SW 8260B
1,1-Dichloroethane	**25.2**		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
1,1-Dichloroethene	**44.0**		ug/L	2.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	**13.6**		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
Tetrachloroethene	**432**	CIN	ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	**64.9**		ug/L	5.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	**1.02**		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
Trichloroethene	**14.4**		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/23/10 23:58	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*98 %*								
Surr: Toluene-d8 (80-120%)	*95 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*92 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	**22**		ug/l	2.0	1	11/01/10 19:56	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*115 %*								

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Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-08 (28154 D-01 - Ground Water)					**Sampled: 10/20/10 13:34**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/24/10 00:21	sjn	10J1384	SW 8260B
1,1-Dichloroethane	22.2		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
1,1-Dichloroethene	40.3		ug/L	2.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	11.1		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
Tetrachloroethene	399	CIN	ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	59.5		ug/L	5.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
Trichloroethene	12.4		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/24/10 00:21	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*96 %*								
Surr: Toluene-d8 (80-120%)	*99 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*98 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	27		ug/l	4.0	2	11/01/10 20:25	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*108 %*								
Sample ID: CTJ1197-09 (28155 MW-20 - Ground Water)					**Sampled: 10/20/10 12:50**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/24/10 00:43	sjn	10J1384	SW 8260B
1,1-Dichloroethane	38.2		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
1,1-Dichloroethene	89.6		ug/L	2.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	55.8		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	2.98		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
Tetrachloroethene	719	CIN	ug/L	20.0	20	10/25/10 23:11	sjn	10J1459	SW 8260B
1,1,1-Trichloroethane	137		ug/L	5.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	2.52		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
Trichloroethene	22.4		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/24/10 00:43	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*93 %*								
Surr: Dibromofluoromethane (75-120%)	*76 %*								
Surr: Toluene-d8 (80-120%)	*94 %*								
Surr: Toluene-d8 (80-120%)	*95 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*96 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*96 %*								

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Derrick Klinkenberg
Organics Manager

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Sample ID: CTJ1197-09 (28155 MW-20 - Ground Water) - cont.					**Sampled: 10/20/10 12:50**		**Recvd: 10/20/10 19:00**		
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/26/10 08:42	cmm	10J1299	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	42		ug/l	20	10	11/01/10 17:01	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*111 %*								
Sample ID: CTJ1197-10 (28156 MW-R30 - Ground Water)					**Sampled: 10/20/10 09:11**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/25/10 21:40	sjn	10J1459	SW 8260B
1,1-Dichloroethane	<1.00	C9	ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
1,1-Dichloroethene	<2.00	C9	ug/L	2.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
cis-1,2-Dichloroethene	29.4	C9	ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
Tetrachloroethene	3.83	CIN	ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
Trichloroethene	74.8		ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
Vinyl chloride	<1.00	C9	ug/L	1.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/25/10 21:40	sjn	10J1459	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*76 %*								
Surr: Toluene-d8 (80-120%)	*98 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*94 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
Sample ID: CTJ1197-11 (28157 MW-31 - Ground Water)					**Sampled: 10/20/10 10:07**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/25/10 22:26	sjn	10J1459	SW 8260B
1,1-Dichloroethane	<1.00	C9	ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
1,1-Dichloroethene	<2.00	C9	ug/L	2.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
cis-1,2-Dichloroethene	<1.00	C9	ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
Tetrachloroethene	2.04	CIN	ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
Trichloroethene	2.21		ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
Vinyl chloride	<1.00	C9	ug/L	1.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/25/10 22:26	sjn	10J1459	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*76 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
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Joel Zirkle

Work Order: CTJ1197
Project: Sauer Danfoss - Ames, Iowa
Project Number: 10-233

Received: 10/20/10
Reported: 11/04/10 15:27

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-11 (28157 MW-31 - Ground Water) - cont.					**Sampled: 10/20/10 10:07**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds - cont.									
Surr: 4-Bromofluorobenzene (75-110%)	*94 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
Sample ID: CTJ1197-12 (28158 MW-32 - Ground Water)					**Sampled: 10/20/10 09:46**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/25/10 21:17	sjn	10J1459	SW 8260B
1,1-Dichloroethane	<1.00	C9	ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
1,1-Dichloroethene	<2.00	C9	ug/L	2.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
cis-1,2-Dichloroethene	<1.00	C9	ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
Trichloroethene	**2.50**		ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
Vinyl chloride	<1.00	C9	ug/L	1.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/25/10 21:17	sjn	10J1459	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*81 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*94 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
Sample ID: CTJ1197-13 (28159 MW-33 - Ground Water)					**Sampled: 10/20/10 16:51**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/27/10 10:10	sjn	10J1467	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
1,1-Dichloroethene	**2.75**		ug/L	2.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
Tetrachloroethene	**54.6**		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
1,1,1-Trichloroethane	**3.95**		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	10/27/10 10:10	sjn	10J1467	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*91 %*								
Surr: Dibromofluoromethane (75-120%)	*94 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-13 (28159 MW-33 - Ground Water) - cont.					**Sampled: 10/20/10 16:51**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds - cont.									
Surr: 4-Bromofluorobenzene (75-110%)	*95 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*103 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<2.0		ug/l	2.0	1	11/01/10 18:00	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*114 %*								
Sample ID: CTJ1197-14 (28160 MW-34 - Ground Water)					**Sampled: 10/20/10 11:10**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/25/10 22:48	sjn	10J1459	SW 8260B
1,1-Dichloroethane	<1.00	C9	ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
1,1-Dichloroethene	<2.00	C9	ug/L	2.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
cis-1,2-Dichloroethene	<1.00	C9	ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
Vinyl chloride	<1.00	C9	ug/L	1.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/25/10 22:48	sjn	10J1459	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*75 %*								
Surr: Toluene-d8 (80-120%)	*96 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*94 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<2.0		ug/l	2.0	1	11/01/10 20:54	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*107 %*								

TestAmerica
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221 E. Main Street, Ste. 200
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Joel Zirkle

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-15 (28161 EB-02 - Water)					**Sampled: 10/20/10 17:15**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/24/10 02:59	sjn	10J1384	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
Xylenes, total	<6.00		ug/L	6.00	1	10/24/10 02:59	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*90 %*								
Surr: Toluene-d8 (80-120%)	*98 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*96 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<2.0		ug/l	2.0	1	11/01/10 13:37	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*101 %*								
Sample ID: CTJ1197-16 (28162 Trip Blank - Water)					**Sampled: 10/20/10 09:00**		**Recvd: 10/20/10 19:00**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	10/23/10 07:58	sjn	10J1375	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	10/23/10 07:58	sjn	10J1375	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*92 %*								
Surr: Toluene-d8 (80-120%)	*97 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*94 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									

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ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1197-16 (28162 Trip Blank - Water) - cont.					**Sampled: 10/20/10 09:00**		**Recvd: 10/20/10 19:00**		
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) - cont.									
1,4-Dioxane	<2.0		ug/l	2.0	1	11/01/10 14:06	GMK	10K0015	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*99 %*								

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
Acetone	10J1375			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	10J1375			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	10J1375			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	10J1375			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10J1375			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	10J1375			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J1375			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J1375			ug/L	N/A	1.00	<1.00							CIN
1,1,1-Trichloroethane	10J1375			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J1375			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J1375			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10J1375			ug/L	N/A	1.00	<1.00							
Xylenes, total	10J1375			ug/L	N/A	3.00	<3.00							
Surrogate: Dibromofluoromethane	*10J1375*			ug/L					*88*		*75-120*			
Surrogate: Toluene-d8	*10J1375*			ug/L					*97*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1375*			ug/L					*94*		*75-110*			
Acetone	10J1384			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	10J1384			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	10J1384			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	10J1384			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10J1384			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	10J1384			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J1384			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J1384			ug/L	N/A	1.00	<1.00							CIN
1,1,1-Trichloroethane	10J1384			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J1384			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J1384			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10J1384			ug/L	N/A	1.00	<1.00							
Xylenes, total	10J1384			ug/L	N/A	3.00	<3.00							
Surrogate: Dibromofluoromethane	*10J1384*			ug/L					*89*		*75-120*			
Surrogate: Toluene-d8	*10J1384*			ug/L					*97*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1384*			ug/L					*94*		*75-110*			
Acetone	10J1459			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	10J1459			ug/L	N/A	1.00	<1.00							C9
1,2-Dichloroethane	10J1459			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	10J1459			ug/L	N/A	2.00	<2.00							C9
cis-1,2-Dichloroethene	10J1459			ug/L	N/A	1.00	<1.00							C9
trans-1,2-Dichloroethene	10J1459			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J1459			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J1459			ug/L	N/A	1.00	<1.00							CIN
1,1,1-Trichloroethane	10J1459			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J1459			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J1459			ug/L	N/A	1.00	<1.00							

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THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CTJ1197
Project: Sauer Danfoss - Ames, Iowa
Project Number: 10-233

Received: 10/20/10
Reported: 11/04/10 15:27

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
Vinyl chloride	10J1459			ug/L	N/A	1.00	<1.00							C9
Xylenes, total	10J1459			ug/L	N/A	3.00	<3.00							
Surrogate: Dibromofluoromethane	*10J1459*			ug/L					*77*		*75-120*			
Surrogate: Toluene-d8	*10J1459*			ug/L					*97*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1459*			ug/L					*94*		*75-110*			
Acetone	10J1462			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	10J1462			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	10J1462			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	10J1462			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10J1462			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	10J1462			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J1462			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J1462			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	10J1462			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J1462			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J1462			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10J1462			ug/L	N/A	1.00	<1.00							
Xylenes, total	10J1462			ug/L	N/A	3.00	<3.00							
Surrogate: Dibromofluoromethane	*10J1462*			ug/L					*93*		*75-120*			
Surrogate: Toluene-d8	*10J1462*			ug/L					*95*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1462*			ug/L					*104*		*75-110*			
Acetone	10J1467			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	10J1467			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	10J1467			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	10J1467			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10J1467			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	10J1467			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J1467			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J1467			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	10J1467			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J1467			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J1467			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10J1467			ug/L	N/A	1.00	<1.00							
Xylenes, total	10J1467			ug/L	N/A	3.00	<3.00							
Surrogate: Dibromofluoromethane	*10J1467*			ug/L					*88*		*75-120*			
Surrogate: Toluene-d8	*10J1467*			ug/L					*93*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1467*			ug/L					*102*		*75-110*			

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LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)														
1,4-Dioxane	10J3516			ug/l	N/A	2.0	<2.0							
Surrogate: Dibromofluoromethane	*10J3516*			ug/l					*96*		*80-120*			
1,4-Dioxane	10K0015			ug/l	N/A	2.0	<2.0							
Surrogate: Dibromofluoromethane	*10K0015*			ug/l					*100*		*80-120*			

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
Acetone	10J1375		20.0	ug/L	N/A	N/A	27.9		139		60-150		20	
1,1-Dichloroethane	10J1375		20.0	ug/L	N/A	N/A	23.1		115		60-130		15	
1,2-Dichloroethane	10J1375		20.0	ug/L	N/A	N/A	21.4		107		65-140		15	
1,1-Dichloroethene	10J1375		20.0	ug/L	N/A	N/A	22.5		113		60-135		20	
cis-1,2-Dichloroethene	10J1375		20.0	ug/L	N/A	N/A	24.0		120		70-135		15	
trans-1,2-Dichloroethene	10J1375		20.0	ug/L	N/A	N/A	23.9		120		60-145		15	
Methylene Chloride	10J1375		20.0	ug/L	N/A	N/A	22.6		113		55-145		20	
Tetrachloroethene	10J1375		20.0	ug/L	N/A	N/A	22.6		113		70-135		15	CIN
1,1,1-Trichloroethane	10J1375		20.0	ug/L	N/A	N/A	19.8		99		60-125		15	
1,1,2-Trichloroethane	10J1375		20.0	ug/L	N/A	N/A	22.7		114		75-125		15	
Trichloroethene	10J1375		20.0	ug/L	N/A	N/A	23.6		118		70-130		20	
Vinyl chloride	10J1375		20.0	ug/L	N/A	N/A	23.1		115		45-135		20	
Xylenes, total	10J1375		60.0	ug/L	N/A	N/A	70.2		117		70-130		35	
Surrogate: Dibromofluoromethane	*10J1375*			ug/L					*98*		*75-120*			
Surrogate: Toluene-d8	*10J1375*			ug/L					*98*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1375*			ug/L					*98*		*80-120*			
Acetone	10J1384		20.0	ug/L	N/A	N/A	29.1		146		60-150		20	
1,1-Dichloroethane	10J1384		20.0	ug/L	N/A	N/A	22.9		114		60-130		15	
1,2-Dichloroethane	10J1384		20.0	ug/L	N/A	N/A	21.5		107		65-140		15	
1,1-Dichloroethene	10J1384		20.0	ug/L	N/A	N/A	22.4		112		60-135		20	
cis-1,2-Dichloroethene	10J1384		20.0	ug/L	N/A	N/A	23.0		115		70-135		15	
trans-1,2-Dichloroethene	10J1384		20.0	ug/L	N/A	N/A	21.9		110		60-145		15	
Methylene Chloride	10J1384		20.0	ug/L	N/A	N/A	23.1		115		55-145		20	
Tetrachloroethene	10J1384		20.0	ug/L	N/A	N/A	21.8		109		70-135		15	CIN
1,1,1-Trichloroethane	10J1384		20.0	ug/L	N/A	N/A	18.3		92		60-125		15	
1,1,2-Trichloroethane	10J1384		20.0	ug/L	N/A	N/A	23.1		115		75-125		15	
Trichloroethene	10J1384		20.0	ug/L	N/A	N/A	21.9		110		70-130		20	
Vinyl chloride	10J1384		20.0	ug/L	N/A	N/A	22.5		112		45-135		20	
Xylenes, total	10J1384		60.0	ug/L	N/A	N/A	66.2		110		70-130		35	
Surrogate: Dibromofluoromethane	*10J1384*			ug/L					*100*		*75-120*			
Surrogate: Toluene-d8	*10J1384*			ug/L					*97*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1384*			ug/L					*100*		*80-120*			
Acetone	10J1459		20.0	ug/L	N/A	N/A	22.6		113		60-150		20	
1,1-Dichloroethane	10J1459		20.0	ug/L	N/A	N/A	21.8		109		60-130		15	C9
1,2-Dichloroethane	10J1459		20.0	ug/L	N/A	N/A	18.9		94		65-140		15	
1,1-Dichloroethene	10J1459		20.0	ug/L	N/A	N/A	21.4		107		60-135		20	C9
cis-1,2-Dichloroethene	10J1459		20.0	ug/L	N/A	N/A	22.0		110		70-135		15	C9
trans-1,2-Dichloroethene	10J1459		20.0	ug/L	N/A	N/A	21.5		108		60-145		15	
Methylene Chloride	10J1459		20.0	ug/L	N/A	N/A	20.3		101		55-145		20	
Tetrachloroethene	10J1459		20.0	ug/L	N/A	N/A	21.6		108		70-135		15	CIN
1,1,1-Trichloroethane	10J1459		20.0	ug/L	N/A	N/A	17.6		88		60-125		15	
1,1,2-Trichloroethane	10J1459		20.0	ug/L	N/A	N/A	21.6		108		75-125		15	
Trichloroethene	10J1459		20.0	ug/L	N/A	N/A	21.7		108		70-130		20	

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Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
Vinyl chloride	10J1459		20.0	ug/L	N/A	N/A	22.2		111		45-135		20	C9
Xylenes, total	10J1459		60.0	ug/L	N/A	N/A	65.2		109		70-130		35	
Surrogate: Dibromofluoromethane	*10J1459*			ug/L					*85*		*75-120*			
Surrogate: Toluene-d8	*10J1459*			ug/L					*96*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1459*			ug/L					*98*		*80-120*			
Acetone	10J1462		20.0	ug/L	N/A	N/A	14.5	21.0	73	105	60-150	36	20	R7
1,1-Dichloroethane	10J1462		20.0	ug/L	N/A	N/A	17.4	17.4	87	87	60-130	0	15	
1,2-Dichloroethane	10J1462		20.0	ug/L	N/A	N/A	18.5	19.8	93	99	65-140	6	15	
1,1-Dichloroethene	10J1462		20.0	ug/L	N/A	N/A	18.0	18.4	90	92	60-135	2	20	
cis-1,2-Dichloroethene	10J1462		20.0	ug/L	N/A	N/A	18.4	19.4	92	97	70-135	5	15	
trans-1,2-Dichloroethene	10J1462		20.0	ug/L	N/A	N/A	18.0	20.9	90	104	60-145	15	15	
Methylene Chloride	10J1462		20.0	ug/L	N/A	N/A	19.8	19.8	99	99	55-145	0	20	
Tetrachloroethene	10J1462		20.0	ug/L	N/A	N/A	19.8	20.3	99	102	70-135	3	15	
1,1,1-Trichloroethane	10J1462		20.0	ug/L	N/A	N/A	19.7	18.6	98	93	60-125	5	15	
1,1,2-Trichloroethane	10J1462		20.0	ug/L	N/A	N/A	19.4	19.9	97	99	75-125	2	15	
Trichloroethene	10J1462		20.0	ug/L	N/A	N/A	20.5	19.8	102	99	70-130	3	20	
Vinyl chloride	10J1462		20.0	ug/L	N/A	N/A	16.4	15.8	82	79	45-135	4	20	
Xylenes, total	10J1462		60.0	ug/L	N/A	N/A	66.1	61.4	110	102	70-130	7	35	
Surrogate: Dibromofluoromethane	*10J1462*			ug/L					*93*	*100*	*75-120*			
Surrogate: Toluene-d8	*10J1462*			ug/L					*94*	*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1462*			ug/L					*112*	*103*	*80-120*			
Acetone	10J1467		20.0	ug/L	N/A	N/A	14.1		70		60-150		20	
1,1-Dichloroethane	10J1467		20.0	ug/L	N/A	N/A	15.5		77		60-130		15	
1,2-Dichloroethane	10J1467		20.0	ug/L	N/A	N/A	17.6		88		65-140		15	
1,1-Dichloroethene	10J1467		20.0	ug/L	N/A	N/A	15.8		79		60-135		20	
cis-1,2-Dichloroethene	10J1467		20.0	ug/L	N/A	N/A	16.6		83		70-135		15	
trans-1,2-Dichloroethene	10J1467		20.0	ug/L	N/A	N/A	18.2		91		60-145		15	
Methylene Chloride	10J1467		20.0	ug/L	N/A	N/A	16.3		82		55-145		20	
Tetrachloroethene	10J1467		20.0	ug/L	N/A	N/A	18.2		91		70-135		15	
1,1,1-Trichloroethane	10J1467		20.0	ug/L	N/A	N/A	16.4		82		60-125		15	
1,1,2-Trichloroethane	10J1467		20.0	ug/L	N/A	N/A	17.3		87		75-125		15	
Trichloroethene	10J1467		20.0	ug/L	N/A	N/A	17.3		86		70-130		20	
Vinyl chloride	10J1467		20.0	ug/L	N/A	N/A	13.8		69		45-135		20	
Xylenes, total	10J1467		60.0	ug/L	N/A	N/A	55.9		93		70-130		35	
Surrogate: Dibromofluoromethane	*10J1467*			ug/L					*92*		*75-120*			
Surrogate: Toluene-d8	*10J1467*			ug/L					*96*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1467*			ug/L					*109*		*80-120*			

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LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)														
1,4-Dioxane	10J3516		10.0	ug/l	N/A	2.0	10.3		103		70-125			
Surrogate: Dibromofluoromethane	*10J3516*			ug/l					*98*		*80-120*			
1,4-Dioxane	10K0015		10.0	ug/l	N/A	2.0	10.5		105		70-125			
Surrogate: Dibromofluoromethane	*10K0015*			ug/l					*100*		*80-120*			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
QC Source Sample: CTJ1197-01														
Acetone	10J1375	2.32	20.0	ug/L	N/A	N/A	25.0	26.9	114	123	45-150	7	35	
1,1-Dichloroethane	10J1375	<1.00	20.0	ug/L	N/A	N/A	19.9	19.1	100	95	50-130	4	25	
1,2-Dichloroethane	10J1375	<1.00	20.0	ug/L	N/A	N/A	18.2	17.9	91	89	55-140	2	15	
1,1-Dichloroethene	10J1375	<2.00	20.0	ug/L	N/A	N/A	19.5	19.2	98	96	35-135	2	30	
cis-1,2-Dichloroethene	10J1375	<1.00	20.0	ug/L	N/A	N/A	20.1	19.5	101	97	45-135	3	20	
trans-1,2-Dichloroethene	10J1375	<1.00	20.0	ug/L	N/A	N/A	19.6	18.6	98	93	45-145	5	35	
Methylene Chloride	10J1375	0.350	20.0	ug/L	N/A	N/A	20.2	18.9	99	93	45-145	6	30	
Tetrachloroethene	10J1375	<1.00	20.0	ug/L	N/A	N/A	20.8	20.4	104	102	40-135	2	20	CIN
1,1,1-Trichloroethane	10J1375	0.0100	20.0	ug/L	N/A	N/A	16.5	16.7	82	83	40-125	1	20	
1,1,2-Trichloroethane	10J1375	<1.00	20.0	ug/L	N/A	N/A	18.5	18.7	93	94	60-130	1	15	
Trichloroethene	10J1375	<1.00	20.0	ug/L	N/A	N/A	19.4	20.1	97	101	50-130	3	20	
Vinyl chloride	10J1375	<1.00	20.0	ug/L	N/A	N/A	21.1	20.2	105	101	30-135	4	20	
Xylenes, total	10J1375	<3.00	60.0	ug/L	N/A	N/A	62.1	60.7	103	101	40-135	2	20	
Surrogate: Dibromofluoromethane	*10J1375*			ug/L					*95*	*95*	*75-120*			
Surrogate: Toluene-d8	*10J1375*			ug/L					*98*	*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1375*			ug/L					*96*	*99*	*80-120*			
QC Source Sample: CTJ1197-13														
Acetone	10J1384	3.67	20.0	ug/L	N/A	N/A	23.7	20.5	100	84	45-150	15	35	
1,1-Dichloroethane	10J1384	0.360	20.0	ug/L	N/A	N/A	20.8	20.0	102	98	50-130	4	25	
1,2-Dichloroethane	10J1384	<1.00	20.0	ug/L	N/A	N/A	19.5	18.5	98	92	55-140	5	15	
1,1-Dichloroethene	10J1384	4.12	20.0	ug/L	N/A	N/A	23.4	20.7	97	83	35-135	13	30	
cis-1,2-Dichloroethene	10J1384	0.100	20.0	ug/L	N/A	N/A	21.7	20.7	108	103	45-135	5	20	
trans-1,2-Dichloroethene	10J1384	0.0500	20.0	ug/L	N/A	N/A	20.1	18.9	100	94	45-145	6	35	
Methylene Chloride	10J1384	0.0900	20.0	ug/L	N/A	N/A	20.8	19.7	103	98	45-145	5	30	
Tetrachloroethene	10J1384	75.2	20.0	ug/L	N/A	N/A	81.8	77.8	33	13	40-135	5	20	M1
1,1,1-Trichloroethane	10J1384	4.32	20.0	ug/L	N/A	N/A	22.1	20.6	89	82	40-125	7	20	
1,1,2-Trichloroethane	10J1384	0.0700	20.0	ug/L	N/A	N/A	22.0	20.4	109	102	60-130	7	15	
Trichloroethene	10J1384	0.760	20.0	ug/L	N/A	N/A	22.2	20.3	107	98	50-130	9	20	
Vinyl chloride	10J1384	<1.00	20.0	ug/L	N/A	N/A	20.0	19.4	100	97	30-135	3	20	
Xylenes, total	10J1384	<3.00	60.0	ug/L	N/A	N/A	64.4	60.8	107	101	40-135	6	20	
Surrogate: Dibromofluoromethane	*10J1384*			ug/L					*94*	*96*	*75-120*			
Surrogate: Toluene-d8	*10J1384*			ug/L					*97*	*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1384*			ug/L					*97*	*99*	*80-120*			
QC Source Sample: CTJ1360-01														
Acetone	10J1459	4.36	20.0	ug/L	N/A	N/A	22.1	21.3	89	85	45-150	4	35	
1,1-Dichloroethane	10J1459	<1.00	20.0	ug/L	N/A	N/A	19.2	20.8	96	104	50-130	8	25	C9
1,2-Dichloroethane	10J1459	<1.00	20.0	ug/L	N/A	N/A	16.8	18.0	84	90	55-140	7	15	
1,1-Dichloroethene	10J1459	<2.00	20.0	ug/L	N/A	N/A	18.0	19.6	90	98	35-135	9	30	C9
cis-1,2-Dichloroethene	10J1459	<1.00	20.0	ug/L	N/A	N/A	19.9	21.7	100	108	45-135	9	20	C9
trans-1,2-Dichloroethene	10J1459	<1.00	20.0	ug/L	N/A	N/A	19.4	19.6	97	98	45-145	1	35	
Methylene Chloride	10J1459	<5.00	20.0	ug/L	N/A	N/A	18.7	20.2	94	101	45-145	8	30	
Tetrachloroethene	10J1459	<1.00	20.0	ug/L	N/A	N/A	18.9	22.4	94	112	40-135	17	20	CIN
1,1,1-Trichloroethane	10J1459	<1.00	20.0	ug/L	N/A	N/A	15.1	16.2	76	81	40-125	7	20	
1,1,2-Trichloroethane	10J1459	<1.00	20.0	ug/L	N/A	N/A	19.0	20.6	95	103	60-130	8	15	
Trichloroethene	10J1459	<1.00	20.0	ug/L	N/A	N/A	19.2	20.3	96	102	50-130	5	20	

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CTJ1197
Project: Sauer Danfoss - Ames, Iowa
Project Number: 10-233

Received: 10/20/10
Reported: 11/04/10 15:27

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
QC Source Sample: CTJ1360-01														
Vinyl chloride	10J1459	<1.00	20.0	ug/L	N/A	N/A	19.5	21.3	98	106	30-135	9	20	C9
Xylenes, total	10J1459	<3.00	60.0	ug/L	N/A	N/A	58.0	64.7	97	108	40-135	11	20	
Surrogate: Dibromofluoromethane	*10J1459*			ug/L					*82*	*79*	*75-120*			
Surrogate: Toluene-d8	*10J1459*			ug/L					*96*	*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*10J1459*			ug/L					*96*	*101*	*80-120*			
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)														
QC Source Sample: ITJ2178-09														
1,4-Dioxane	10J3516	8.50	10.0	ug/l	N/A	2.0	19.0	18.9	105	104	70-130	0	30	
Surrogate: Dibromofluoromethane	*10J3516*			ug/l					*96*	*98*	*80-120*			
QC Source Sample: CTJ1197-13														
1,4-Dioxane	10K0015	<2.0	10.0	ug/l	N/A	2.0	10.4	10.4	104	104	70-130	1	30	
Surrogate: Dibromofluoromethane	*10K0015*			ug/l					*111*	*110*	*80-120*			

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT	Work Order:	CTJ1197	Received: 10/20/10
221 E. Main Street, Ste. 200			Reported: 11/04/10 15:27
Freeport, IL 61032	Project:	Sauer Danfoss - Ames, Iowa	
Joel Zirkle	Project Number:	10-233	

CERTIFICATION SUMMARY

TestAmerica Cedar Falls

Method	Matrix	Nelac	Iowa
SW 8260B	Water - NonPotable	X	X
SW	Water - NonPotable		

Subcontracted Laboratories

TestAmerica Irvine

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: CTJ1197-01, CTJ1197-02, CTJ1197-03, CTJ1197-04, CTJ1197-05, CTJ1197-06, CTJ1197-07, CTJ1197-08, CTJ1197-09, CTJ1197-13, CTJ1197-14, CTJ1197-15, CTJ1197-16

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Termperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

DATA QUALIFIERS AND DEFINITIONS

C9	Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
CIN	The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
M1	The MS and/or MSD were outside control limits.
R7	LCS/LCSD RPD exceeded the acceptance limit. Recovery met acceptance criteria.

ADDITIONAL COMMENTS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Fehr · Graham
Client #:
Address: 221 E. Main St.
City/State/Zip Code: Freeport, IL 61032
Project Manager: Joel Zirkle
Email Address: jzirkle@fehr-graham.com
Telephone Number: (815) 394-4700
Fax:
Sampler Name: (Print Name) Mike Day
Sampler Signature: Mike Day

Project Name: Sauer-Danfoss
Project #: 10-233
Site/Location ID: Ames
State: IA
Report To: Erin Jarrett
Invoice To: FGA
Quote #:
PO#:

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)
Email Results: (Y) N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other
Preservation & # of Containers
Analyze For: VOC's List Method 8260 B SIM
QC Deliverables: ___ None, ___ Level 2 (Batch QC), ___ Level 3, ___ Level 4, Other:

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	VOC's List Method 8260 B SIM								REMARKS
28147 EB-01	10-20-10	8:33	G		DI		6						X	X							
28148 MW 10		3:54			GW		6														
28149 MW 11		3:13					6														
28150 MW 12		2:37					6														
28151 MW R13		11:47					6														
28152 MW 18		2:06					6														
28153 MW 19		1:34					6														
28154 D-01		1:34					6														
28155 MW 20		12:50					6														
28156 MW-R30		9:11					3														

Special Instructions:

LABORATORY COMMENTS:

	Date:	Time:		Date:	Time:
Relinquished By: Mike Day	10/19/10	7:00 PM	Received By:	10/20/10	1900
Relinquished By:			Received By:		
Relinquished By:			Received By:		

TAL-0033 (0708)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Fehr - Graham
Client #:
Address: 221 E. Main St.
City/State/Zip Code: Freeport, IL 61032
Project Manager:
Email Address:
Telephone Number:
Fax:
Sampler Name: (Print Name) Mike Day
Sampler Signature: Mike Day

Project Name: Sauer - Danfoss
Project #: 10-233
Site/Location ID: Ames
State: IA
Report To: Erin Jarrett
Invoice To: FGA
Quote #:
PO#:

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)
Email Results: (Y) N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

SAMPLE ID		Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: VOC's	List 1 Method 8260 B	REMARKS
28157	MW 31	10/20/10	10:07	G		GW		3						X		
28158	MW 32		9:46					3						X		
28159	MW 33		11:51					18						X	X	MS/MSD
28160	MW 34		11:10					6						X	X	
28161	EB-02		5:15			DI		6						X	X	
28162	Trip Blank		9:00			DI		2						X	X	

Special Instructions: Extra vials from MW-33 are for the matrix spike and the matrix spike duplicate

LABORATORY COMMENTS:

Relinquished By: Mike Day	Date: 10/20/10	Time: 7:05PM	Received By:	Date: 10/20/10	Time: 1900
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0033 (0708)

TABLE 1

ANALYTE LIST

Acetone*
1,1-Dichloroethane*
1,2-Dichloroethane
1,1-Dichloroethene*
cis-1,2-Dichloroethene*
trans-1,2-Dichloroethene
1,4 Dioxane**
Methylene Chloride
Tetrachloroethene*
1,1,1-Trichloroethane*
1,1,2-Trichloroethane
Trichloroethene*
Vinyl Chloride***
Total Xylenes*

* Required by Sauer-Danfoss's Permit No. 6593-3.

** Required for select monitoring wells.

*** Beginning second quarter 2002, as requested in the United States Environmental Protection Agency (US EPA) comments on the 2002 Annual Site Sampling Report.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Fehr-Graham Project: _____

City: Freeport, Il

Date: 10/20/10 Receiver's Initials: JMH Time (Delivered): 1900

Temperature Record:

Cooler ID# (If Applicable)
LB-9

5.3 °C / On Ice

☑ Temp Blank

☐ Temperature out of compliance

Thermometer:

☐ IR - 61997671 'B'
☑ IR - 90876942 'C'
☐ IR - 61854108
☐ 22126775

Courier:

☐ UPS
☐ FedEx
☐ FedEx Ground
☐ US Postal Service
☐ Spee-Dee
☐ TA Courier
☐ TA Field Services
☑ Client
☐ Other

Custody seals present?
☐ Yes
Custody seals intact?
☐ Yes ☐ No

☐ Non-Conformance report started

Exceptions Noted

☐ Sample(s) not received in a cooler.
☐ Samples(s) received same day of sampling.
☐ Evidence of a chilling process
☐ Temperature not taken:

purge vials

*Refer to SOP CF-SS-01 for Temperature Criteria

H:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt rev15.doc

ATTACHMENT 4

Laboratory Report for March 31, 2011 Re-Sample Event

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

April 15, 2011

Client:
FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032

Attn: Joel Zirkle

Work Order: CUC1693
Project Name: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Date Received: 03/31/11

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
28909 MW-33	CUC1693-01	03/31/11 09:02
28912 MW-18	CUC1693-02	03/31/11 11:15
28913 MW-19	CUC1693-03	03/31/11 13:31
28914 Duplicate	CUC1693-04	03/31/11
28915 Equip. Blank	CUC1693-05	03/31/11 13:58
28916 Trip Blank	CUC1693-06	03/31/11

Samples were received into laboratory at a temperature of 1.30 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CUC1693-01 (28909 MW-33 - Ground Water)					**Sampled: 03/31/11 09:02**		**Recvd: 03/31/11 16:38**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	04/02/11 22:49	sjn	11D0111	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	04/02/11 22:49	sjn	11D0111	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*95 %*								
Surr: Toluene-d8 (80-120%)	*99 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*102 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	04/05/11 12:10	ztb	11D0144	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<6.0		ug/l	6.0	1	04/08/11 16:05	GMK	11D0976	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*114 %*								
Sample ID: CUC1693-02 (28912 MW-18 - Ground Water)					**Sampled: 03/31/11 11:15**		**Recvd: 03/31/11 16:38**		
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	04/02/11 23:15	sjn	11D0111	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	04/02/11 23:15	sjn	11D0111	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*95 %*								
Surr: Toluene-d8 (80-120%)	*99 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*98 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	04/05/11 12:10	ztb	11D0144	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

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THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CUC1693-02 (28912 MW-18 - Ground Water) - cont.					**Sampled: 03/31/11 11:15**			**Recvd: 03/31/11 16:38**	
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) - cont.									
1,4-Dioxane	<6.0		ug/l	6.0	1	04/08/11 17:34	GMK	11D0976	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*115 %*								
Sample ID: CUC1693-03 (28913 MW-19 - Ground Water)					**Sampled: 03/31/11 13:31**			**Recvd: 03/31/11 16:38**	
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	04/02/11 23:40	sjn	11D0111	SW 8260B
1,1-Dichloroethane	**4.94**		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
1,1-Dichloroethene	**6.21**		ug/L	2.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
cis-1,2-Dichloroethene	**4.67**		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
Tetrachloroethene	**69.7**		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
1,1,1-Trichloroethane	**18.0**		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
Trichloroethene	**5.18**		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	04/02/11 23:40	sjn	11D0111	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*97 %*								
Surr: Toluene-d8 (80-120%)	*99 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*101 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	04/05/11 12:10	ztb	11D0144	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	**12**		ug/l	6.0	1	04/08/11 18:03	GMK	11D0976	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*113 %*								
Sample ID: CUC1693-04 (28914 Duplicate - Ground Water)					**Sampled: 03/31/11**			**Recvd: 03/31/11 16:38**	
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	04/03/11 00:05	sjn	11D0111	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	04/03/11 00:05	sjn	11D0111	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*95 %*								

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FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CUC1693-04 (28914 Duplicate - Ground Water) - cont.					**Sampled: 03/31/11**			**Recvd: 03/31/11 16:38**	
Volatile Organic Compounds - cont.									
Surr: Toluene-d8 (80-120%)	*100 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*100 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	04/05/11 12:10	ztb	11D0144	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<6.0		ug/l	6.0	1	04/08/11 18:33	GMK	11D0976	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*117 %*								
Sample ID: CUC1693-05 (28915 Equip. Blank - Ground Water)					**Sampled: 03/31/11 13:58**			**Recvd: 03/31/11 16:38**	
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	04/03/11 00:31	sjn	11D0111	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	04/03/11 00:31	sjn	11D0111	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*99 %*								
Surr: Toluene-d8 (80-120%)	*98 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*99 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	04/05/11 12:10	ztb	11D0144	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<6.0		ug/l	6.0	1	04/08/11 19:02	GMK	11D0976	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*114 %*								

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221 E. Main Street, Ste. 200
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Joel Zirkle

Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CUC1693-06 (28916 Trip Blank - Water)					**Sampled: 03/31/11**			**Recvd: 03/31/11 16:38**	
Volatile Organic Compounds									
Acetone	<10.0		ug/L	10.0	1	04/05/11 13:54	sjn	11D0215	SW 8260B
1,1-Dichloroethane	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
1,2-Dichloroethane	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
1,1-Dichloroethene	<2.00		ug/L	2.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
Tetrachloroethene	<1.00	C9	ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
Vinyl chloride	<1.00	CIN	ug/L	1.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
Xylenes, total	<3.00		ug/L	3.00	1	04/05/11 13:54	sjn	11D0215	SW 8260B
Surr: Dibromofluoromethane (75-120%)	*98 %*								
Surr: Toluene-d8 (80-120%)	*100 %*								
Surr: 4-Bromofluorobenzene (75-110%)	*102 %*								
VOC Preservation Check									
pH	<2.00		units	2.00	1	04/05/11 12:10	ztb	11D0144	SW
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)									
1,4-Dioxane	<6.0		ug/l	6.0	1	04/08/11 19:32	GMK	11D0976	EPA 8260B-SIM
Surr: Dibromofluoromethane (80-120%)	*115 %*								

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Joel Zirkle

Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
Acetone	11D0111			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	11D0111			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	11D0111			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	11D0111			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	11D0111			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	11D0111			ug/L	N/A	1.00	<1.00							
Methylene Chloride	11D0111			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	11D0111			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	11D0111			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	11D0111			ug/L	N/A	1.00	<1.00							
Trichloroethene	11D0111			ug/L	N/A	1.00	<1.00							
Vinyl chloride	11D0111			ug/L	N/A	1.00	<1.00							
Xylenes, total	11D0111			ug/L	N/A	3.00	<3.00							
Surrogate: Dibromofluoromethane	*11D0111*			ug/L					*96*		*75-120*			
Surrogate: Toluene-d8	*11D0111*			ug/L					*100*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*11D0111*			ug/L					*104*		*75-110*			
Acetone	11D0215			ug/L	N/A	10.0	<10.0							
1,1-Dichloroethane	11D0215			ug/L	N/A	1.00	<1.00							
1,2-Dichloroethane	11D0215			ug/L	N/A	1.00	<1.00							
1,1-Dichloroethene	11D0215			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	11D0215			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	11D0215			ug/L	N/A	1.00	<1.00							
Methylene Chloride	11D0215			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	11D0215			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	11D0215			ug/L	N/A	1.00	<1.00							C9
1,1,2-Trichloroethane	11D0215			ug/L	N/A	1.00	<1.00							
Trichloroethene	11D0215			ug/L	N/A	1.00	<1.00							
Vinyl chloride	11D0215			ug/L	N/A	1.00	<1.00							
Xylenes, total	11D0215			ug/L	N/A	3.00	<3.00							CIN
Surrogate: Dibromofluoromethane	*11D0215*			ug/L					*98*		*75-120*			
Surrogate: Toluene-d8	*11D0215*			ug/L					*99*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*11D0215*			ug/L					*102*		*75-110*			
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)														
1,4-Dioxane	11D0976			ug/l	N/A	6.0	<6.0							
Surrogate: Dibromofluoromethane	*11D0976*			ug/l					*107*		*80-120*			

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Joel Zirkle

Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
Acetone	11D0111		20.0	ug/L	N/A	N/A	24.9		124		60-150		20	
1,1-Dichloroethane	11D0111		20.0	ug/L	N/A	N/A	17.0		85		60-130		15	
1,2-Dichloroethane	11D0111		20.0	ug/L	N/A	N/A	18.8		94		65-140		15	
1,1-Dichloroethene	11D0111		20.0	ug/L	N/A	N/A	19.9		100		60-135		20	
cis-1,2-Dichloroethene	11D0111		20.0	ug/L	N/A	N/A	20.4		102		70-135		15	
trans-1,2-Dichloroethene	11D0111		20.0	ug/L	N/A	N/A	19.9		100		60-145		15	
Methylene Chloride	11D0111		20.0	ug/L	N/A	N/A	17.4		87		55-145		20	
Tetrachloroethene	11D0111		20.0	ug/L	N/A	N/A	21.7		109		70-135		15	
1,1,1-Trichloroethane	11D0111		20.0	ug/L	N/A	N/A	20.8		104		60-125		15	
1,1,2-Trichloroethane	11D0111		20.0	ug/L	N/A	N/A	20.2		101		75-125		15	
Trichloroethene	11D0111		20.0	ug/L	N/A	N/A	21.0		105		70-130		20	
Vinyl chloride	11D0111		20.0	ug/L	N/A	N/A	22.3		111		45-135		20	
Xylenes, total	11D0111		60.0	ug/L	N/A	N/A	63.3		105		70-130		35	
Surrogate: Dibromofluoromethane	*11D0111*			ug/L					*96*		*75-120*			
Surrogate: Toluene-d8	*11D0111*			ug/L					*99*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*11D0111*			ug/L					*102*		*80-120*			
Acetone	11D0215		20.0	ug/L	N/A	N/A	21.3		107		60-150		20	
1,1-Dichloroethane	11D0215		20.0	ug/L	N/A	N/A	18.7		94		60-130		15	
1,2-Dichloroethane	11D0215		20.0	ug/L	N/A	N/A	22.0		110		65-140		15	
1,1-Dichloroethene	11D0215		20.0	ug/L	N/A	N/A	18.5		92		60-135		20	
cis-1,2-Dichloroethene	11D0215		20.0	ug/L	N/A	N/A	21.8		109		70-135		15	
trans-1,2-Dichloroethene	11D0215		20.0	ug/L	N/A	N/A	19.4		97		60-145		15	
Methylene Chloride	11D0215		20.0	ug/L	N/A	N/A	19.4		97		55-145		20	
Tetrachloroethene	11D0215		20.0	ug/L	N/A	N/A	23.0		115		70-135		15	C9
1,1,1-Trichloroethane	11D0215		20.0	ug/L	N/A	N/A	22.8		114		60-125		15	
1,1,2-Trichloroethane	11D0215		20.0	ug/L	N/A	N/A	23.0		115		75-125		15	
Trichloroethene	11D0215		20.0	ug/L	N/A	N/A	20.9		105		70-130		20	
Vinyl chloride	11D0215		20.0	ug/L	N/A	N/A	17.4		87		45-135		20	CIN
Xylenes, total	11D0215		60.0	ug/L	N/A	N/A	71.9		120		70-130		35	
Surrogate: Dibromofluoromethane	*11D0215*			ug/L					*98*		*75-120*			
Surrogate: Toluene-d8	*11D0215*			ug/L					*98*		*80-120*			
Surrogate: 4-Bromofluorobenzene	*11D0215*			ug/L					*102*		*80-120*			
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)														
1,4-Dioxane	11D0976		10.0	ug/l	N/A	6.0	10.0		100		70-125		30	
Surrogate: Dibromofluoromethane	*11D0976*			ug/l					*106*		*80-120*			

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Work Order: CUC1693
Project: Sauer Danfoss - Ames, Iowa
Project Number: 11-233

Received: 03/31/11
Reported: 04/15/11 14:56

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
QC Source Sample: CUC1693-01														
Acetone	11D0111	<10.0	20.0	ug/L	N/A	N/A	23.0	25.8	115	129	45-150	11	35	
1,1-Dichloroethane	11D0111	<1.00	20.0	ug/L	N/A	N/A	17.1	16.3	85	81	50-130	5	25	
1,2-Dichloroethane	11D0111	<1.00	20.0	ug/L	N/A	N/A	20.1	19.9	101	100	55-140	1	15	
1,1-Dichloroethene	11D0111	<2.00	20.0	ug/L	N/A	N/A	17.9	18.8	90	94	35-135	5	30	
cis-1,2-Dichloroethene	11D0111	0.700	20.0	ug/L	N/A	N/A	19.2	19.2	92	93	45-135	0	20	
trans-1,2-Dichloroethene	11D0111	<1.00	20.0	ug/L	N/A	N/A	18.3	17.5	91	88	45-145	4	35	
Methylene Chloride	11D0111	0.100	20.0	ug/L	N/A	N/A	16.4	15.9	81	79	45-145	3	30	
Tetrachloroethene	11D0111	<1.00	20.0	ug/L	N/A	N/A	19.9	20.3	100	102	40-135	2	20	
1,1,1-Trichloroethane	11D0111	<1.00	20.0	ug/L	N/A	N/A	20.0	19.5	100	97	40-125	3	20	
1,1,2-Trichloroethane	11D0111	<1.00	20.0	ug/L	N/A	N/A	21.5	21.8	108	109	60-130	1	15	
Trichloroethene	11D0111	<1.00	20.0	ug/L	N/A	N/A	18.8	18.8	94	94	50-130	0	20	
Vinyl chloride	11D0111	<1.00	20.0	ug/L	N/A	N/A	20.8	19.8	104	99	30-135	5	20	
Xylenes, total	11D0111	<3.00	60.0	ug/L	N/A	N/A	61.9	64.6	103	108	40-135	4	20	
Surrogate: Dibromofluoromethane	*11D0111*			ug/L					*100*	*98*	*75-120*			
Surrogate: Toluene-d8	*11D0111*			ug/L					*100*	*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*11D0111*			ug/L					*101*	*101*	*80-120*			
QC Source Sample: CUD0111-01														
Acetone	11D0215	1.87	20.0	ug/L	N/A	N/A	19.0	23.6	86	109	45-150	22	35	
1,1-Dichloroethane	11D0215	0.0100	20.0	ug/L	N/A	N/A	15.4	16.4	77	82	50-130	6	25	
1,2-Dichloroethane	11D0215	0.490	20.0	ug/L	N/A	N/A	18.8	19.1	91	93	55-140	2	15	
1,1-Dichloroethene	11D0215	<2.00	20.0	ug/L	N/A	N/A	14.3	15.5	71	77	35-135	8	30	
cis-1,2-Dichloroethene	11D0215	<1.00	20.0	ug/L	N/A	N/A	17.7	18.4	88	92	45-135	4	20	
trans-1,2-Dichloroethene	11D0215	0.0400	20.0	ug/L	N/A	N/A	15.8	16.3	79	81	45-145	3	35	
Methylene Chloride	11D0215	0.150	20.0	ug/L	N/A	N/A	14.9	16.3	74	81	45-145	9	30	
Tetrachloroethene	11D0215	<1.00	20.0	ug/L	N/A	N/A	18.5	20.1	93	100	40-135	8	20	C9
1,1,1-Trichloroethane	11D0215	<1.00	20.0	ug/L	N/A	N/A	17.4	17.7	87	88	40-125	2	20	
1,1,2-Trichloroethane	11D0215	<1.00	20.0	ug/L	N/A	N/A	16.6	18.8	83	94	60-130	12	15	
Trichloroethene	11D0215	<1.00	20.0	ug/L	N/A	N/A	15.9	17.3	79	86	50-130	9	20	
Vinyl chloride	11D0215	0.0400	20.0	ug/L	N/A	N/A	13.4	13.9	67	69	30-135	4	20	CIN
Xylenes, total	11D0215	<3.00	60.0	ug/L	N/A	N/A	57.4	61.5	96	102	40-135	7	20	
Surrogate: Dibromofluoromethane	*11D0215*			ug/L					*99*	*98*	*75-120*			
Surrogate: Toluene-d8	*11D0215*			ug/L					*97*	*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*11D0215*			ug/L					*101*	*105*	*80-120*			
1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)														
QC Source Sample: IUD0326-03														
1,4-Dioxane	11D0976	<6.0	10.0	ug/l	N/A	6.0	10.5	11.0	105	110	70-130	5	30	
Surrogate: Dibromofluoromethane	*11D0976*			ug/l					*112*	*111*	*80-120*			
QC Source Sample: CUC1693-01														
1,4-Dioxane	11D0976	<6.0	10.0	ug/l	N/A	6.0	9.90	10.0	99	100	70-130	1	30	
Surrogate: Dibromofluoromethane	*11D0976*			ug/l					*115*	*115*	*80-120*			

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT	Work Order:	CUC1693	Received: 03/31/11
221 E. Main Street, Ste. 200			Reported: 04/15/11 14:56
Freeport, IL 61032	Project:	Sauer Danfoss - Ames, Iowa	
Joel Zirkle	Project Number:	11-233	

CERTIFICATION SUMMARY

TestAmerica Cedar Falls

Method	Matrix	Nelac	Iowa
SW 8260B	Water - NonPotable	X	X
SW	Water - NonPotable		

Subcontracted Laboratories

TestAmerica Irvine

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: CUC1693-01, CUC1693-02, CUC1693-03, CUC1693-04, CUC1693-05, CUC1693-06

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Termperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

DATA QUALIFIERS AND DEFINITIONS

C9	Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
CIN	The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

ADDITIONAL COMMENTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: Fehr-Graham & Assoc. Client #: _____
Address: 221 E. Main St., Suite 200
City/State/Zip Code: Freeport, IL 61032
Project Manager: Joel Zirkle
Email Address: jzirkle@fehr-graham.com
Telephone Number: 815-235-7643 Fax: 815-235-4632
Sampler Name: (Print Name) Jeff Ogden
Sampler Signature: [signature]

Project Name: Sauer Danfoss
Project #: 11-233
Site/Location ID: Ames State: IA
Report To: Jeff Ogden / Erin Jarrett
Invoice To: Erin Jarrett
Quote #: _____ PO#: _____

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N
Email Results: (Y) N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other

Preservation & # of Containers: HNO_3, HCl, NaOH, H_2SO_4, Methanol, None, Other (Specify)

Analyze For: See list below; 1,4 Dioxane

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	See list below	1,4 Dioxane	REMARKS
28909 - MW-33	03/31/11	09:03	G		GW		6						X	X	
28910 - MW-33 MS	↓	↓	↓		↓		↓						↓	↓	
28911 - MW-33 MSD	↓	↓	↓		↓		↓						↓	↓	
28912 - MW-18	↓	11:15	↓		↓		↓						↓	↓	
28913 - MW-19	↓	13:31	↓		↓		↓						↓	↓	
28914 - Duplicate	↓	—	↓		↓		↓						↓	↓	
28915 - Equip. Blank	↓	13:58			AQ		↓						↓	↓	
28916 - Trip Blank					↓		↓						↓	↓	

Special Instructions: VOC list: Acetone, 1,1-DCA, 1,2-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, Methylene chloride, PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, Vinyl chloride, xylenes (total)

LAB INFORMATION COMMENTS

Relinquished By: [signature]	Date: 03/31/11	Time: 1635	Received By: [signature]	Date: 3/31/11	Time: 1613 8
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0033 (0708)

Page _____ of _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Fehr, Graham & Assoc. Project: Sauer Danfoss

City: Freeport, IL

Date: 3/31/11 Receiver's Initials: JL Time (Delivered): 4:38

Temperature Record:

Cooler ID# (If Applicable)
TAS. 012

1.3 °C / On Ice

☑ Temp Blank

☐ Temperature out of compliance

Thermometer:

☐ IR - 61997671 'B'
☐ IR - 90876942 'C'
☐ IR - 61854108
☐ 22126775

Courier:

☐ UPS
☐ FedEx
☐ FedEx Ground
☐ US Postal Service
☐ Spee-Dee
☐ TA Courier
☐ TA Field Services
☑ Client
☐ Other

Custody seals present?
☐ Yes

Custody seals intact?
☐ Yes ☐ No

☐ Non-Conformance report started

Exceptions Noted

☐ Sample(s) not received in a cooler.
☐ Samples(s) received same day of sampling.
☐ Evidence of a chilling process
☐ Temperature not taken:

***Refer to SOP CF-SS-01 for Temperature Criteria**

H:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt rev15.doc