Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

QC Batch: MSV/9957 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6027765006, 6027765007, 6027765008

METHOD BLANK: 224751
Associated Lab Samples: 6027765006, 6027765007, 6027765008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

METHOD BLANK: 224751

Associated Lab Samples: 6027765006, 6027765007, 6027765008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	113	72-124	
4-Bromofluorobenzene (S)	%	100	83-124	
Dibromofluoromethane (S)	%	108	74-119	
Toluene-d8 (S)	%	101	82-119	

LABORATORY CONTROL SAMPLE: 224752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	55.7	111	84-120	
1,1,1-Trichloroethane	ug/kg	50	62.7	125	85-123	L3
1,1,2,2-Tetrachloroethane	ug/kg	50	46.2	92	76-130	
1,1,2-Trichloroethane	ug/kg	50	52.0	104	77-128	
1,1-Dichloroethane	ug/kg	50	55.0	110	83-125	
1,1-Dichloroethene	ug/kg	50	57.8	116	75-148	
1,1-Dichloropropene	ug/kg	50	53.0	106	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	60.0	120	80-123	
1,2,3-Trichloropropane	ug/kg	50	42.0	84	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	59.0	118	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	47.0	94	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	46.1	92	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	52.9	106	82-122	
1,2-Dichlorobenzene	ug/kg	50	52.2	104	86-118	
1,2-Dichloroethane	ug/kg	50	59.5	119	82-125	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

LABORATORY CONTROL SAMPLE: 224752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	110	110	81-133	
1,2-Dichloropropane	ug/kg	50	47.0	94	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	48.7	97	81-125	
1,3-Dichlorobenzene	ug/kg	50	51.3	103	85-117	
1,3-Dichloropropane	ug/kg	50	47.8	96	80-125	
1,4-Dichlorobenzene	ug/kg	50	52.3	105	85-117	
2,2-Dichloropropane	ug/kg	50	59.9	120	84-127	
2-Butanone (MEK)	ug/kg	100	97.6	98	68-128	
2-Chlorotoluene	ug/kg	50	49.8	100	85-126	
2-Hexanone	ug/kg	100	93.5	93	60-139	
4-Chlorotoluene	ug/kg	50	48.6	97	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	100	100	76-120	
Acetone	ug/kg	100	111	111	54-132	
Benzene	ug/kg	50	52.1	104	81-125	
Bromobenzene	ug/kg	50	58.9	118	78-124	
Bromochloromethane	ug/kg	50	54.1	108	82-130	
Bromodichloromethane	ug/kg	50	61.1	122	86-127	
Bromoform	ug/kg	50	53.4	107	71-117	
Bromomethane	ug/kg	50	55.6	111	60-134	
Carbon disulfide	ug/kg	100	80.8	81	45-135	
Carbon tetrachloride	ug/kg	50	64.1	128	84-129	
Chlorobenzene	ug/kg	50	52.4	105	87-118	
Chloroethane	ug/kg	50	46.0	92	59-133	
Chloroform	ug/kg	50	53.9	108	80-120	
Chloromethane	ug/kg	50	35.9	72	45-130	
cis-1,2-Dichloroethene	ug/kg	50	49.7	99	79-130	
cis-1,3-Dichloropropene	ug/kg	50	54.8	110	87-120	
Dibromochloromethane	ug/kg	50	59.1	118	80-126	
Dibromomethane	ug/kg	50	54.5	109	86-123	
Dichlorodifluoromethane	ug/kg	50	30.1	60	10-139	
Ethylbenzene	ug/kg	50	50.2	100	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	62.5	125	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	49.6	99	79-111	
Methyl-tert-butyl ether	ug/kg	50	55.8	112	78-119	
Methylene chloride	ug/kg	50	51.7	103	72-122	
n-Butylbenzene	ug/kg	50	49.2	98	82-129	
n-Propylbenzene	ug/kg	50	48.5	97	82-127	
Naphthalene	ug/kg	50	51.8	104	70-129	
p-Isopropyltoluene	ug/kg	50	47.1	94	82-121	
sec-Butylbenzene	ug/kg	50	48.2	96	83-126	
Styrene	ug/kg	50	52.4	105	84-121	
tert-Butylbenzene	ug/kg	50	55.6	111	84-122	
Tetrachloroethene	ug/kg	50	62.8	126	83-126	
Toluene	ug/kg	50	49.1	98	83-122	
trans-1,2-Dichloroethene	ug/kg	50	60.2	120	80-139	
trans-1,3-Dichloropropene	ug/kg	50	54.4	109	78-128	
Trichloroethene	ug/kg	50	56.2	112	86-123	
Trichlorofluoromethane	ug/kg	50	52.9	106	69-130	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

LABORATORY CONTROL SAMPLE: 224752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	36.3	73	53-135	
Xylene (Total)	ug/kg	150	152	101	84-118	
1,2-Dichloroethane-d4 (S)	%			113	72-124	
4-Bromofluorobenzene (S)	%			101	83-124	
Dibromofluoromethane (S)	%			109	74-119	
Toluene-d8 (S)	%			102	82-119	

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QUALIFIERS

Project: Brenntag IRMS
Pace Project No.: 6027765

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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

BATCH QUALIFIERS

Batch: MSV/9914

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/9934

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/9957

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

C7	Analyte is a possible laboratory contaminant (not present in method blank).
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
1e	Analyte is a common laboratory contaminant (confirmed by presence in method blank below reporting limit).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag IRMS
Pace Project No.: 6027765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6027765001	IRM-CS-05	EPA 8260	MSV/9914		
6027765003	IRM-CS-04	EPA 8260	MSV/9914		
6027765004	IRM-CS-DUP-01	EPA 8260	MSV/9914		
6027765005	IRM-CS-03	EPA 8260	MSV/9914		
6027765002	IRM-CS-06	EPA 8260	MSV/9934		
6027765001	IRM-CS-05	ASTM D2974-87	PMST/2445		
6027765002	IRM-CS-06	ASTM D2974-87	PMST/2445		
6027765003	IRM-CS-04	ASTM D2974-87	PMST/2445		
6027765004	IRM-CS-DUP-01	ASTM D2974-87	PMST/2445		
6027765005	IRM-CS-03	ASTM D2974-87	PMST/2445		
6027765006	IRM-CS-02	ASTM D2974-87	PMST/2445		
6027765007	IRM-CS-01	ASTM D2974-87	PMST/2445		
6027765008	IRM-CS-07	ASTM D2974-87	PMST/2445		
6027765006	IRM-CS-02	EPA 8260	MSV/9957		
6027765007	IRM-CS-01	EPA 8260	MSV/9957		
6027765008	IRM-CS-07	EPA 8260	MSV/9957		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1127898

Section A Required Client Information:

Company: The Forester Group
Address: 605 N Boonville
Springfield, MO 65806
Email To: Bob@forestergroup.com
Phone: 417-864-6444 Fax: 417-864-6445
Requested Due Date/TAT: * 24 hours *

Section B Required Project Information:

Report To: Bob Kick
Copy To: Kris Gamble
Kris@forestergroup.com
Purchase Order No.:
Project Name: Remitag IRMS
Project Number: 1477 0000

Section C Invoice Information:

Attention: Bob Kick
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other 5035	Analysis Test: VOC 8260	Temperature	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 6027765
1	IRM-CS-05	SL	G			8-29-07	1520		1								X	X			001
2	IRM-CS-06	SL	G			8-29-07	1530		1								X	X			002
3	IRM-CS-04	SL	G			8-29-07	1535		1								X	X			003
4	IRM-CS-Dup-01	SL	G			8-29-07	1545		1								X	X			004
5	IRM-CS-03	SL	G			8-29-07	1600		1								X	X			005
6	IRM-CS-02	SL	G			8-29-07	1610		1								X	X			006
7	IRM-CS-01	SL	G			8-29-07	1625		1								X	X			007
8	IRM-CS-07	SL	G			8-29-07	1630		1								X	X			008
9	Temp Blank																		X		
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble TFG	8-29-07	1730	[illegible]	8/29/07	830	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble
SIGNATURE of SAMPLER: Kris Gamble
DATE Signed (MM/DD/YY): 8-29-07

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Forrester Group Project # L0277765

Optional
Proj. Due Date: 8/31/17
Proj. Name: Porcentay DUNS

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

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T-168 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.2 Biological Tissue is Frozen: ~~Yes No~~

Date and Initials of person examining contents: JMS 8/30/17

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.	
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2.	
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.	
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.	
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	5.	
Short Hold Time Analysis (<72hr):	☒ Yes	☒ No	☐ N/A	6.	5035 kits
Rush Turn Around Time Requested:	☒ Yes	☐ No	☐ N/A	7.	1 day TAT
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	8.	
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	9.	
-Pace Containers Used:	☒ Yes	☐ No	☐ N/A		
Containers Intact:	☒ Yes	☐ No	☐ N/A	10.	
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11.	
Sample Labels match COC:	☒ Yes	☐ No	☐ N/A	12.	
-Includes date/time/ID/Analysis Matrix: Soil					
All containers needing preservation have been checked:	☐ Yes	☐ No	☒ N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes	☐ No		Initial when completed: N/A	Lot # of added preservative:
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14.	
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	15.	
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	16.	
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A		
Pace Trip Blank Lot # (if purchased): N/A					

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

F-ALL-C003rev.3, 11September2006

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September 04, 2007

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag IKMS
Pace Project No.: 6027822

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

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ACCREDITED IN ACCORDANCE WITH nelac

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SAMPLE SUMMARY

Project: Brenntag IKMS
Pace Project No.: 6027822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6027822001	IRM-CS-08	Solid	08/30/07 08:40	08/31/07 07:05

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SAMPLE ANALYTE COUNT

Project: Brenntag IKMS
Pace Project No.: 6027822

Lab ID	Sample ID	Method	Analytes Reported
6027822001	IRM-CS-08	ASTM D2974-87	1
		EPA 8260	69

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ANALYTICAL RESULTS

Project: Brenntag IKMS
Pace Project No.: 6027822

Sample: IRM-CS-08 **Lab ID: 6027822001** Collected: 08/30/07 08:40 Received: 08/31/07 07:05 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**39.4**	ug/kg	19.8	1		08/31/07 15:51	67-64-1	C7
Benzene	ND	ug/kg	4.9	1		08/31/07 15:51	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		08/31/07 15:51	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		08/31/07 15:51	75-27-4	
Bromoform	ND	ug/kg	4.9	1		08/31/07 15:51	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		08/31/07 15:51	74-83-9	
2-Butanone (MEK)	**14.5**	ug/kg	9.9	1		08/31/07 15:51	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	98-06-6	
Carbon disulfide	ND	ug/kg	4.9	1		08/31/07 15:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		08/31/07 15:51	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	75-00-3	
Chloroform	ND	ug/kg	4.9	1		08/31/07 15:51	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		08/31/07 15:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		08/31/07 15:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		08/31/07 15:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		08/31/07 15:51	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		08/31/07 15:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		08/31/07 15:51	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		08/31/07 15:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		08/31/07 15:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	4.9	1		08/31/07 15:51	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.9	1		08/31/07 15:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		08/31/07 15:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		08/31/07 15:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		08/31/07 15:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		08/31/07 15:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		08/31/07 15:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		08/31/07 15:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		08/31/07 15:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		08/31/07 15:51	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		08/31/07 15:51	87-68-3	
2-Hexanone	ND	ug/kg	19.8	1		08/31/07 15:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		08/31/07 15:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		08/31/07 15:51	99-87-6	
Methylene chloride	ND	ug/kg	4.9	1		08/31/07 15:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.9	1		08/31/07 15:51	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IKMS
Pace Project No.: 6027822

Sample: IRM-CS-08 Lab ID: **6027822001** Collected: 08/30/07 08:40 Received: 08/31/07 07:05 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		08/31/07 15:51	1634-04-4	
Naphthalene	ND	ug/kg	9.9	1		08/31/07 15:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	103-65-1	
Styrene	ND	ug/kg	4.9	1		08/31/07 15:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	79-34-5	
Tetrachloroethene	**103**	ug/kg	4.9	1		08/31/07 15:51	127-18-4	
Toluene	ND	ug/kg	4.9	1		08/31/07 15:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		08/31/07 15:51	79-00-5	
Trichloroethene	**14.6**	ug/kg	4.9	1		08/31/07 15:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		08/31/07 15:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		08/31/07 15:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		08/31/07 15:51	108-67-8	
Vinyl chloride	ND	ug/kg	4.9	1		08/31/07 15:51	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	1		08/31/07 15:51	1330-20-7	
Dibromofluoromethane (S)	99	%	74-119	1		08/31/07 15:51	1868-53-7	
Toluene-d8 (S)	100	%	82-119	1		08/31/07 15:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-124	1		08/31/07 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	72-124	1		08/31/07 15:51	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.5**	%	0.10	1		08/31/07 00:00		

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QUALITY CONTROL DATA

Project: Brenntag IKMS
Pace Project No.: 6027822

QC Batch: MSV/9957
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6027822001

METHOD BLANK: 224751
Associated Lab Samples: 6027822001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag IKMS
Pace Project No.: 6027822

METHOD BLANK: 224751
Associated Lab Samples: 6027822001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	113	72-124	
4-Bromofluorobenzene (S)	%	100	83-124	
Dibromofluoromethane (S)	%	108	74-119	
Toluene-d8 (S)	%	101	82-119	

LABORATORY CONTROL SAMPLE: 224752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	55.7	111	84-120	
1,1,1-Trichloroethane	ug/kg	50	62.7	125	85-123	L3
1,1,2,2-Tetrachloroethane	ug/kg	50	46.2	92	76-130	
1,1,2-Trichloroethane	ug/kg	50	52.0	104	77-128	
1,1-Dichloroethane	ug/kg	50	55.0	110	83-125	
1,1-Dichloroethene	ug/kg	50	57.8	116	75-148	
1,1-Dichloropropene	ug/kg	50	53.0	106	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	60.0	120	80-123	
1,2,3-Trichloropropane	ug/kg	50	42.0	84	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	59.0	118	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	47.0	94	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	46.1	92	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	52.9	106	82-122	
1,2-Dichlorobenzene	ug/kg	50	52.2	104	86-118	
1,2-Dichloroethane	ug/kg	50	59.5	119	82-125	

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QUALITY CONTROL DATA

Project: Brenntag IKMS
Pace Project No.: 6027822

LABORATORY CONTROL SAMPLE: 224752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	110	110	81-133	
1,2-Dichloropropane	ug/kg	50	47.0	94	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	48.7	97	81-125	
1,3-Dichlorobenzene	ug/kg	50	51.3	103	85-117	
1,3-Dichloropropane	ug/kg	50	47.8	96	80-125	
1,4-Dichlorobenzene	ug/kg	50	52.3	105	85-117	
2,2-Dichloropropane	ug/kg	50	59.9	120	84-127	
2-Butanone (MEK)	ug/kg	100	97.6	98	68-128	
2-Chlorotoluene	ug/kg	50	49.8	100	85-126	
2-Hexanone	ug/kg	100	93.5	93	60-139	
4-Chlorotoluene	ug/kg	50	48.6	97	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	100	100	76-120	
Acetone	ug/kg	100	111	111	54-132	
Benzene	ug/kg	50	52.1	104	81-125	
Bromobenzene	ug/kg	50	58.9	118	78-124	
Bromochloromethane	ug/kg	50	54.1	108	82-130	
Bromodichloromethane	ug/kg	50	61.1	122	86-127	
Bromoform	ug/kg	50	53.4	107	71-117	
Bromomethane	ug/kg	50	55.6	111	60-134	
Carbon disulfide	ug/kg	100	80.8	81	45-135	
Carbon tetrachloride	ug/kg	50	64.1	128	84-129	
Chlorobenzene	ug/kg	50	52.4	105	87-118	
Chloroethane	ug/kg	50	46.0	92	59-133	
Chloroform	ug/kg	50	53.9	108	80-120	
Chloromethane	ug/kg	50	35.9	72	45-130	
cis-1,2-Dichloroethene	ug/kg	50	49.7	99	79-130	
cis-1,3-Dichloropropene	ug/kg	50	54.8	110	87-120	
Dibromochloromethane	ug/kg	50	59.1	118	80-126	
Dibromomethane	ug/kg	50	54.5	109	86-123	
Dichlorodifluoromethane	ug/kg	50	30.1	60	10-139	
Ethylbenzene	ug/kg	50	50.2	100	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	62.5	125	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	49.6	99	79-111	
Methyl-tert-butyl ether	ug/kg	50	55.8	112	78-119	
Methylene chloride	ug/kg	50	51.7	103	72-122	
n-Butylbenzene	ug/kg	50	49.2	98	82-129	
n-Propylbenzene	ug/kg	50	48.5	97	82-127	
Naphthalene	ug/kg	50	51.8	104	70-129	
p-Isopropyltoluene	ug/kg	50	47.1	94	82-121	
sec-Butylbenzene	ug/kg	50	48.2	96	83-126	
Styrene	ug/kg	50	52.4	105	84-121	
tert-Butylbenzene	ug/kg	50	55.6	111	84-122	
Tetrachloroethene	ug/kg	50	62.8	126	83-126	
Toluene	ug/kg	50	49.1	98	83-122	
trans-1,2-Dichloroethene	ug/kg	50	60.2	120	80-139	
trans-1,3-Dichloropropene	ug/kg	50	54.4	109	78-128	
Trichloroethene	ug/kg	50	56.2	112	86-123	
Trichlorofluoromethane	ug/kg	50	52.9	106	69-130	

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QUALITY CONTROL DATA

Project: Brenntag IKMS
Pace Project No.: 6027822

LABORATORY CONTROL SAMPLE: 224752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	36.3	73	53-135	
Xylene (Total)	ug/kg	150	152	101	84-118	
1,2-Dichloroethane-d4 (S)	%			113	72-124	
4-Bromofluorobenzene (S)	%			101	83-124	
Dibromofluoromethane (S)	%			109	74-119	
Toluene-d8 (S)	%			102	82-119	

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QUALITY CONTROL DATA

Project: Brenntag IKMS
Pace Project No.: 6027822

QC Batch: PMST/2448
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 6027822001

SAMPLE DUPLICATE: 224789

Parameter	Units	6027822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.5	16.1	4	20	

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QUALIFIERS

Project: Brenntag IKMS
Pace Project No.: 6027822

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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BATCH QUALIFIERS

Batch: MSV/9957

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

C7 Analyte is a possible laboratory contaminant (not present in method blank).

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag IKMS
Pace Project No.: 6027822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6027822001	IRM-CS-08	EPA 8260	MSV/9957		
6027822001	IRM-CS-08	ASTM D2974-87	PMST/2448		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1127899

Section A Required Client Information:

Company: The Forrester Group
Address: 605 N Boonville Ave
Springfield, MO 65806
Email To: Bob@forrestergroup.com
Phone: 417-864-6444 Fax: 417-864-6445
Requested Due Date/TAT: * 24 hr *

Section B Required Project Information:

Report To: Bob Kick
Copy To: Kris Gamble
Kris@forrestergroup.com
Purchase Order No.:
Project Name: Remington IRM
Project Number: 1477000

Section C Invoice Information:

Attention: Bob Kick
Company Name: The Forrester Group
Address: same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Temperature										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	IRM-C2-C8	WT	G			8-30-07	0840		1								X		X	X											27922-001
2	Temp Blank																			X											
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble TFG	8-30-07	1800	[signature]	08/31/07	07:00	1.4	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kris Gamble
SIGNATURE of SAMPLER: Kris Gamble
DATE Signed (MM/DD/YY): 08/30/07

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

2

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Forrester Project # U027822

Optional
Proj. Due Date: 9/4/07
Proj. Name: Brenntag Ikms

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other ECI

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ~~☐ yes ☐ no~~

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Foam

Thermometer Used T-168 Type of Ice: (Wet) Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature 1.4°C Biological Tissue is Frozen: ~~Yes No~~

Date and Initials of person examining contents: OBK 8/31/07 07:32

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6. 14 jts
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 24 hr TAT
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Soil		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed ✓ / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: 8/31/07 Date: _____

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

F-ALL-C003rev.3, 11September2006

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September 10, 2007

SEP 17 2007

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag-IRMS
Pace Project No.: 6028075

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

for Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

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SAMPLE SUMMARY

Project: Brenntag-IRMS
Pace Project No.: 6028075

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6028075001	IRM-CS-01-B	Solid	09/06/07 11:00	09/07/07 07:15
6028075002	IRM-CS-07-B	Solid	09/06/07 14:15	09/07/07 07:15

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SAMPLE ANALYTE COUNT

Project: Brenntag-IRMS
Pace Project No.: 6028075

Lab ID	Sample ID	Method	Analytes Reported
6028075001	IRM-CS-01-B	ASTM D2974-87	1
		EPA 8260	69
6028075002	IRM-CS-07-B	ASTM D2974-87	1
		EPA 8260	69

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028075

Sample: IRM-CS-01-B **Lab ID: 6028075001** Collected: 09/06/07 11:00 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**88.3**	ug/kg	19.2	1		09/07/07 15:24	67-64-1	
Benzene	ND	ug/kg	4.8	1		09/07/07 15:24	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		09/07/07 15:24	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		09/07/07 15:24	75-27-4	
Bromoform	ND	ug/kg	4.8	1		09/07/07 15:24	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		09/07/07 15:24	74-83-9	
2-Butanone (MEK)	**18.5**	ug/kg	9.6	1		09/07/07 15:24	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	98-06-6	
Carbon disulfide	ND	ug/kg	4.8	1		09/07/07 15:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		09/07/07 15:24	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	75-00-3	
Chloroform	ND	ug/kg	4.8	1		09/07/07 15:24	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		09/07/07 15:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		09/07/07 15:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		09/07/07 15:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		09/07/07 15:24	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		09/07/07 15:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		09/07/07 15:24	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		09/07/07 15:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		09/07/07 15:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	4.8	1		09/07/07 15:24	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.8	1		09/07/07 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		09/07/07 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		09/07/07 15:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		09/07/07 15:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		09/07/07 15:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		09/07/07 15:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		09/07/07 15:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		09/07/07 15:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		09/07/07 15:24	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		09/07/07 15:24	87-68-3	
2-Hexanone	ND	ug/kg	19.2	1		09/07/07 15:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		09/07/07 15:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		09/07/07 15:24	99-87-6	
Methylene chloride	ND	ug/kg	4.8	1		09/07/07 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.6	1		09/07/07 15:24	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028075

Sample: IRM-CS-01-B **Lab ID: 6028075001** Collected: 09/06/07 11:00 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		09/07/07 15:24	1634-04-4	
Naphthalene	ND	ug/kg	9.6	1		09/07/07 15:24	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	103-65-1	
Styrene	ND	ug/kg	4.8	1		09/07/07 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	79-34-5	
Tetrachloroethene	**19.1**	ug/kg	4.8	1		09/07/07 15:24	127-18-4	
Toluene	ND	ug/kg	4.8	1		09/07/07 15:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		09/07/07 15:24	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		09/07/07 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		09/07/07 15:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		09/07/07 15:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		09/07/07 15:24	108-67-8	
Vinyl chloride	ND	ug/kg	4.8	1		09/07/07 15:24	75-01-4	
Xylene (Total)	ND	ug/kg	4.8	1		09/07/07 15:24	1330-20-7	
Dibromofluoromethane (S)	100	%	74-119	1		09/07/07 15:24	1868-53-7	
Toluene-d8 (S)	94	%	82-119	1		09/07/07 15:24	2037-26-5	
4-Bromofluorobenzene (S)	86	%	83-124	1		09/07/07 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	72-124	1		09/07/07 15:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.3**	%	0.10	1		09/07/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028075

Sample: IRM-CS-07-B **Lab ID: 6028075002** Collected: 09/06/07 14:15 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**163**	ug/kg	19.1	1		09/07/07 15:40	67-64-1	
Benzene	ND	ug/kg	4.8	1		09/07/07 15:40	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		09/07/07 15:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		09/07/07 15:40	75-27-4	
Bromoform	ND	ug/kg	4.8	1		09/07/07 15:40	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		09/07/07 15:40	74-83-9	
2-Butanone (MEK)	**29.8**	ug/kg	9.5	1		09/07/07 15:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	98-06-6	
Carbon disulfide	ND	ug/kg	4.8	1		09/07/07 15:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		09/07/07 15:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	75-00-3	
Chloroform	ND	ug/kg	4.8	1		09/07/07 15:40	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		09/07/07 15:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		09/07/07 15:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		09/07/07 15:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		09/07/07 15:40	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		09/07/07 15:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		09/07/07 15:40	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		09/07/07 15:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		09/07/07 15:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	107-06-2	
1,2-Dichloroethene (Total)	**45.4**	ug/kg	4.8	1		09/07/07 15:40	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.8	1		09/07/07 15:40	75-35-4	
cis-1,2-Dichloroethene	**43.6**	ug/kg	4.8	1		09/07/07 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		09/07/07 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		09/07/07 15:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		09/07/07 15:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		09/07/07 15:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		09/07/07 15:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		09/07/07 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		09/07/07 15:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		09/07/07 15:40	87-68-3	
2-Hexanone	ND	ug/kg	19.1	1		09/07/07 15:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		09/07/07 15:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		09/07/07 15:40	99-87-6	
Methylene chloride	ND	ug/kg	4.8	1		09/07/07 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.5	1		09/07/07 15:40	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028075

Sample: IRM-CS-07-B **Lab ID: 6028075002** Collected: 09/06/07 14:15 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		09/07/07 15:40	1634-04-4	
Naphthalene	ND	ug/kg	9.5	1		09/07/07 15:40	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	103-65-1	
Styrene	ND	ug/kg	4.8	1		09/07/07 15:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	79-34-5	
Tetrachloroethene	**6.1**	ug/kg	4.8	1		09/07/07 15:40	127-18-4	
Toluene	ND	ug/kg	4.8	1		09/07/07 15:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		09/07/07 15:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		09/07/07 15:40	79-00-5	
Trichloroethene	**5.3**	ug/kg	4.8	1		09/07/07 15:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		09/07/07 15:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		09/07/07 15:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		09/07/07 15:40	108-67-8	
Vinyl chloride	ND	ug/kg	4.8	1		09/07/07 15:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.8	1		09/07/07 15:40	1330-20-7	
Dibromofluoromethane (S)	94	%	74-119	1		09/07/07 15:40	1868-53-7	
Toluene-d8 (S)	96	%	82-119	1		09/07/07 15:40	2037-26-5	
4-Bromofluorobenzene (S)	92	%	83-124	1		09/07/07 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	72-124	1		09/07/07 15:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.2**	%	0.10	1		09/07/07 00:00		

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028075

QC Batch: MSV/10047
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6028075001, 6028075002

METHOD BLANK: 226254
Associated Lab Samples: 6028075001, 6028075002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028075

METHOD BLANK: 226254

Associated Lab Samples: 6028075001, 6028075002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	100	72-124	
4-Bromofluorobenzene (S)	%	98	83-124	
Dibromofluoromethane (S)	%	98	74-119	
Toluene-d8 (S)	%	99	82-119	

LABORATORY CONTROL SAMPLE: 226255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	54.7	109	84-120	
1,1,1-Trichloroethane	ug/kg	50	53.9	108	85-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	52.7	105	76-130	
1,1,2-Trichloroethane	ug/kg	50	55.5	111	77-128	
1,1-Dichloroethane	ug/kg	50	54.9	110	83-125	
1,1-Dichloroethene	ug/kg	50	56.8	114	75-148	
1,1-Dichloropropene	ug/kg	50	53.5	107	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	52.5	105	80-123	
1,2,3-Trichloropropane	ug/kg	50	48.6	97	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	54.6	109	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	53.4	107	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	56.3	113	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	55.6	111	82-122	
1,2-Dichlorobenzene	ug/kg	50	52.7	105	86-118	
1,2-Dichloroethane	ug/kg	50	52.0	104	82-125	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028075

LABORATORY CONTROL SAMPLE: 226255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	113	113	81-133	
1,2-Dichloropropane	ug/kg	50	53.7	107	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	53.5	107	81-125	
1,3-Dichlorobenzene	ug/kg	50	52.1	104	85-117	
1,3-Dichloropropane	ug/kg	50	54.0	108	80-125	
1,4-Dichlorobenzene	ug/kg	50	51.9	104	85-117	
2,2-Dichloropropane	ug/kg	50	52.7	105	84-127	
2-Butanone (MEK)	ug/kg	100	96.2	96	68-128	
2-Chlorotoluene	ug/kg	50	51.9	104	85-126	
2-Hexanone	ug/kg	100	107	107	60-139	
4-Chlorotoluene	ug/kg	50	54.0	108	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	102	102	76-120	
Acetone	ug/kg	100	93.7	94	54-132	
Benzene	ug/kg	50	52.5	105	81-125	
Bromobenzene	ug/kg	50	55.3	111	78-124	
Bromochloromethane	ug/kg	50	58.0	116	82-130	
Bromodichloromethane	ug/kg	50	54.9	110	86-127	
Bromoform	ug/kg	50	55.7	111	71-117	
Bromomethane	ug/kg	50	57.8	116	60-134	
Carbon disulfide	ug/kg	100	102	102	45-135	
Carbon tetrachloride	ug/kg	50	54.1	108	84-129	
Chlorobenzene	ug/kg	50	53.7	107	87-118	
Chloroethane	ug/kg	50	51.3	103	59-133	
Chloroform	ug/kg	50	52.2	104	80-120	
Chloromethane	ug/kg	50	45.2	90	45-130	
cis-1,2-Dichloroethene	ug/kg	50	56.9	114	79-130	
cis-1,3-Dichloropropene	ug/kg	50	55.3	111	87-120	
Dibromochloromethane	ug/kg	50	56.2	112	80-126	
Dibromomethane	ug/kg	50	54.4	109	86-123	
Dichlorodifluoromethane	ug/kg	50	33.2	66	10-139	
Ethylbenzene	ug/kg	50	52.7	105	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	56.4	113	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	49.2	98	79-111	
Methyl-tert-butyl ether	ug/kg	50	52.6	105	78-119	
Methylene chloride	ug/kg	50	53.2	106	72-122	
n-Butylbenzene	ug/kg	50	54.0	108	82-129	
n-Propylbenzene	ug/kg	50	54.3	109	82-127	
Naphthalene	ug/kg	50	52.9	106	70-129	
p-Isopropyltoluene	ug/kg	50	51.7	103	82-121	
sec-Butylbenzene	ug/kg	50	54.0	108	83-126	
Styrene	ug/kg	50	56.7	113	84-121	
tert-Butylbenzene	ug/kg	50	53.0	106	84-122	
Tetrachloroethene	ug/kg	50	54.8	110	83-126	
Toluene	ug/kg	50	53.6	107	83-122	
trans-1,2-Dichloroethene	ug/kg	50	55.9	112	80-139	
trans-1,3-Dichloropropene	ug/kg	50	56.3	113	78-128	
Trichloroethene	ug/kg	50	56.5	113	86-123	
Trichlorofluoromethane	ug/kg	50	50.8	102	69-130	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028075

LABORATORY CONTROL SAMPLE: 226255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	46.7	93	53-135	
Xylene (Total)	ug/kg	150	160	107	84-118	
1,2-Dichloroethane-d4 (S)	%			101	72-124	
4-Bromofluorobenzene (S)	%			102	83-124	
Dibromofluoromethane (S)	%			101	74-119	
Toluene-d8 (S)	%			104	82-119	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028075

QC Batch: PMST/2460
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 6028075001, 6028075002

SAMPLE DUPLICATE: 226344

Parameter	Units	6028075001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.3	13.8	11	20	

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QUALIFIERS

Project: Brenntag-IRMS
Pace Project No.: 6028075

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag-IRMS
Pace Project No.: 6028075

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6028075001	IRM-CS-01-B	EPA 8260	MSV/10047		
6028075002	IRM-CS-07-B	EPA 8260	MSV/10047		
6028075001	IRM-CS-01-B	ASTM D2974-87	PMST/2460		
6028075002	IRM-CS-07-B	ASTM D2974-87	PMST/2460		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 1

113425 1

Section A Required Client Information:

Company: The Forestar Group
Address: 605 N Boonville Ave
Springfield MO 65806
Email To: Kris@forestargroup.com
Phone: 417 864 6744 Fax: 417-864 6745
Requested Due Date/TAT: 7 Day

Section B Required Project Information:

Report To: Kris Gamble
Copy To: Bob Kick
Bob@forestargroup.com
Purchase Order No.:
Project Name: Brownfields - IRMS
Project Number: 14776000

Section C Invoice Information:

Attention: Bob Kick
Company Name: The Forestar Group
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: NPDES | GROUND WATER | DRINKING WATER | UST | RCRA | OTHER

Site Location STATE:

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/GRAB DATE	Composite End/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC 8260B	Trip Blank									Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	IRM-CS-01-R	SL	G			9-6-07	1100		1								X		X			1(02670)	2(02691)	2(02690)	1(02689)					001
2	IRM-CS-07-R	SL	G			9-6-07	1145		1								X		X											002
3	Trip Blank																			X										
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
24 hr TAT	Kris Gamble TFG	9-6-07	1700	[illegible] Pace	9/6/07	7:15	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble DATE Signed (MM/DD/YY): 09/06/07

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

2

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Forrester

Project # 1020075

Optional
Proj. Due Date: 9/10/07
Proj. Name: Brenntag-Irwin

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other ECI

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used T-168 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0 Biological Tissue is Frozen: ~~Yes No~~

Date and Initials of person examining contents: JWS 8/7/07 835

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes	☐ No	☐ N/A	6.
Rush Turn Around Time Requested:	☒ Yes	☐ No	☐ N/A	7. (24hr) 1 day TAT
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used:	☒ Yes	☐ No	☐ N/A	
Containers Intact:	☒ Yes	☐ No	☐ N/A	10.
Filtered volume received for Dissolved tests	☒ Yes	☐ No	☐ N/A	11.
Sample Labels match COC:	☒ Yes	☐ No	☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: Soil				
All containers needing preservation have been checked:	☐ Yes	☐ No	☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes	☐ No		Initial when completed: N/A Lot # of added preservative:
Samples checked for dechlorination:	☐ Yes	☐ No	☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased): N/A				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

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

F-ALL-C003rev.3, 11September2006

Appendix E

Off-Site DPT Groundwater Investigations, June 10, 2009

June 10, 2009

Mr. Christopher C. Carey
Environmental Scientist/Project Manager
Kansas Department of Health & Environment
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367

Dear Mr. Carey:

RE: BRENNTAG SOUTHWEST WICHITA, KS – 1520 NORTH BARWISE
OFF-SITE DPT GROUNDWATER INVESTIGATION REPORT

Brenntag Southwest, Inc. (Brenntag) has prepared this letter report on the findings from the first phase of off-site groundwater investigations downgradient of the Brenntag facility at 1520 North Barwise in Wichita, Kansas (site). This work was conducted on property owned by, the City of Wichita.

Scope of Work Performed

The purpose of this work was to trace the extent of impacted groundwater believed to originate on Brenntag property and which may have migrated onto one or more downgradient properties. This scope of work included the collection and analysis of groundwater samples using direct push technology (DPT) and the delineation of soil types using electro-conductivity (EC) logging.

Field activities were performed from March 9, 2009 through March 11, 2009. Geotechnical Services, Inc. (GSI) was the DPT contractor. Kris Gamble provided field oversight for Brenntag.

The methods of work were consistent with Section 3.1.2 (Groundwater Sampling with Direct Push Technology) of the Revised CI/CAS Work Plan (October, 2003) previously submitted to and approved by the Kansas Department of Health and the Environment (KDHE).

Groundwater samples were collected from the deeper, middle and shallow parts of the water-bearing zone to evaluate potential stratification of impacted groundwater. Groundwater samples were collected from approximately 12 to 17 feet, from 16 to 27 feet, and from 30 to 39 feet. The deepest groundwater sample was collected at the bedrock/overburden interface, as identified by probe refusal and/or EC logs. Table 1 in Attachment B gives a summary of sample collection depths at each location. Field forms are included in Attachment C.

Samples were collected from the DPT screen-point sampler using dedicated tubing with a check ball. The tubing was filled by hand oscillating the tubing after which the tubing was withdrawn from the screen-point sampler and then drained into pre-preserved, new, laboratory supplied 40-milliliter sample vials. Samples were packed with ice and a completed chain-of-custody in a

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cooler and submitted to the analytical laboratory by overnight courier. Groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA method SW846-8260.

EC Log Summary

DPT EC logs were collected at eight locations. Figure 1 of Attachment A shows where EC logs and groundwater samples were collected. All EC logs extended from the ground surface to probe refusal. The actual EC logs are provided in Attachment D.

- EC 1 and EC 2 were up-gradient logs collected along Barwise Street. At EC 1 and EC 2 silt and clay was found from ground surface to approximately 8 feet below ground surface (bgs). Sand was identified from 8 feet to approximately 39 feet bgs. A silt layer is present in EC 2 from about 16.5 to 18.0 feet bgs.

- EC 3, EC-4, EC-5, and EC 6 were downgradient logs collected along Mosley Street. Silt and clay was found from ground surface to approximately 10 feet bgs. Sand was identified from 10 feet to approximately 36 feet bgs. A silt interbed in EC 3, from approximately 21.5 to 23.5 feet bgs, pinches out and generally is not present in the southern and eastern parts of the study area.

- EC 7 and EC 8 were down gradient logs collected along 13th Street. Silt and clay was found from ground surface to approximately 8 feet bgs. Sand was identified from 8 feet to approximately 38 feet bgs with few if any silt interbeds.

Groundwater Data Review

A comparison of the chemicals detected from on-site monitoring well samples (March 2009) and from off-site DPT groundwater samples (March 2009) is provided in Table 2. The following compounds were not detected in on-site groundwater, but were detected in off-site DPT groundwater samples below the RSK Residential Groundwater Pathway values: 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; carbon disulfide; ethylbenzene; isopropylbenzene (cumene); acetone, choroform; and xylene (total). The following compounds were not detected in on-site groundwater, but were detected in off-site DPT groundwater samples above the RSK Residential Groundwater Pathway values: benzene; naphthalene; n-butylbenzene; n-propylbenzene; sec-butylbenzene; and toluene.

The groundwater investigation analytical results are provided in Attachment E. Tables 3 and 4 provide summaries of the results and comparisons of the results with the RSK Residential Groundwater Pathway values.

Data were validated as described in The Forrester Group SOP 500 Laboratory Data Deliverable Selection and Data Validation Requirements. All data were determined to be 100 percent usable. Data Validation sheets from this event are included with the analytical results in Attachment E.

Groundwater Results Summary

The following presents a summary of observations regarding the nature and extent of chemicals of concern in groundwater:

PCE

PCE occurs primarily in the shallow and middle zones, but is essentially absent in the deep zone. Downgradient concentrations exceed on-site concentrations. PCE concentrations are displayed on Figure 2 in Attachment A.

Shallow Zone:

- Background detections ranged from ND (GW-2) to 3.5 ug/l at GW-1.
- The onsite detection was 12.7 ug/l (PZ-3).
- Downgradient concentrations range from ND to 39.8 ug/l (GW-5).

Middle Zone:

- Background detections were ND (GW-2, GW-2, MW-1S).
- On-site detections range from 16.5 ug/l (MW-3S) to 19.4 (MW-2S).
- Downgradient concentrations range from ND to 156 ug/l (GW-6).

Deep Zone:

- Essentially all detections in the deep DPT zone are ND or below MCLs.

TCE

TCE occurs in the shallow, middle, and deep DPT zones, with higher concentrations in the middle zone (north part of Mosely Street) and in the deep zone (south part of Mosely Street). TCE is a common background contaminant; however generally comparable to or slightly lower than on-site concentrations. In all zones, on-site TCE concentrations are considerably lower than at off-site locations. TCE concentrations are displayed on Figure 3 in Attachment A.

Shallow Zone:

- Background detections are ND.
- The onsite detection was 1.1 ug/l (PZ-3).
- Downgradient concentrations range from ND to 20.2 ug/l (GW-8).

Middle Zone:

- Background detections range from 1.0 (MW-1S) to 4.4 ug/l (GW-2).
- On-site detections range from 1.1 ug/l (MW-2S) to 12 ug/l (MW-3S).
- Downgradient concentrations range from 2.7 ug/l (GW-11) to 44.8 ug/l (GW-4 & GW-5).

Deep Zone:

- Background concentrations range form 1.6 ug/l (MW-1D) to 10 ug/l (GW-1).
- The onsite detections range from 6.0 ug/l (MW-2D) to 6.5 ug/l (MW-3D).

- Downgradient concentrations range from 1.6 to 66.5 ug/l (GW-8).

Cis-1,2 DCE

Cis-1,2 DCE is present in shallow, middle, and deep DPT zones, and generally increases with depth. Detections in the shallow and middle zones are generally less than the MCL of 70 ug/l; however the MCL is more widely exceeded in the deep zone. This compound is a TCE degradation product. Cis-1,2 DCE concentrations are displayed on Figure 4 in Attachment A.

Shallow Zone:

- Background detections range from 3.0 (GW-2) TO 4.9 ug/l (GW-1).
- The onsite detection was 1.2 ug/l (PZ-3).
- Downgradient concentrations range from 7.1 ug/l to 54.5 ug/l (GW-5).

Middle Zone:

- Background detections range from 6.2 ug/l (GW-1) to 26.5 ug/l (GW-2).
- On-site detections range from ND (MW-2S) to 1.5 ug/l (MW-3S).
- Downgradient concentrations range from 9.0 ug/l (GW-11) to 71.8 ug/l (GW-8).

Deep Zone:

- Background concentrations range form 30.7 ug/l (MW-1D) to 65.6 ug/l (GW-1).
- The onsite detections range from 17.4 ug/l (MW-2D) to 110 ug/l (MW-3D).
- Downgradient concentrations range from 32.7 ug/l to 118 ug/l (GW-5 & GW-3).

Vinyl Chloride

Vinyl Chloride is present in shallow, middle, and deep DPT zones, and generally increases with depth. Detections in the upper and middle zones are generally less than the MCL of 2 ug/l, except at the same two locations along Mosely Street (GW-7 and GW-8); however vinyl chloride detections and exceedences of the MCL occur more widely in the deep zone. This compound is a c-DCE degradation product. Vinyl Chloride concentrations are displayed on Figure 5 in Attachment A.

Shallow Zone:

- Background detections were not-detected..
- The onsite detection was ND (PZ-3).
- Downgradient concentrations range from ND to 7.3 ug/l (GW-7).

Middle Zone:

- Background detections were not-detected..
- On-site detections were ND (MW-2S & MW-3S).
- Downgradient concentrations range from ND to 13.5 ug/l (GW-8).

Deep Zone:

- Background concentrations range from ND (MW-1D) to 7.1 ug/l (GW-1).
- The onsite detections range from ND (MW-2D) to 2.9 ug/l (MW-3D).
- Downgradient concentrations range from ND to 3.5 ug/l (GW-5).

Conclusions

Based on review of the data, the following conclusions are made:

- TCE, cis-DCE, and VC are common background contaminants which indicate a regional area of chlorinated VOC impact exists in the vicinity of the Brenntag property.
- A different suite of analytes are present along Mosely Street than at the Brenntag property, indicating that a second source of impact is present between Brenntag and Mosely Street.
- Concentrations of VOCs along Mosely Street are higher than exist at Brenntag, again indicating a second source of impact.
- The wide distribution of TCE, cis-DCE, and VC, including along Mosely Street and 13th Street also indicate one or more other sources.
- The presence of TCE, cis-DCE, and VC indicate that significant degradation has occurred.
- In summary, it is believed that the area of groundwater impact on Brenntag property has significantly attenuated through excavation of impacted soil and natural processes. The remnant plume downgradient of Brenntag is masked by elevated VOC concentrations possibly attributable to intervening properties. However, significant degradation of the plume is occurring.

If you have any questions or comments, please contact me at (417) 836-3621 or at bkick@foth.com.com or Kris Gamble at (417) 836-3630 or at kgamble@foth.com.

Sincerely,

Foth Infrastructure & Environment, LLC

Kris Gamble
Project Environmental Specialist

Robert M. Kick, P.G., C.H.M.M.
Senior Project Manager

Enclosures

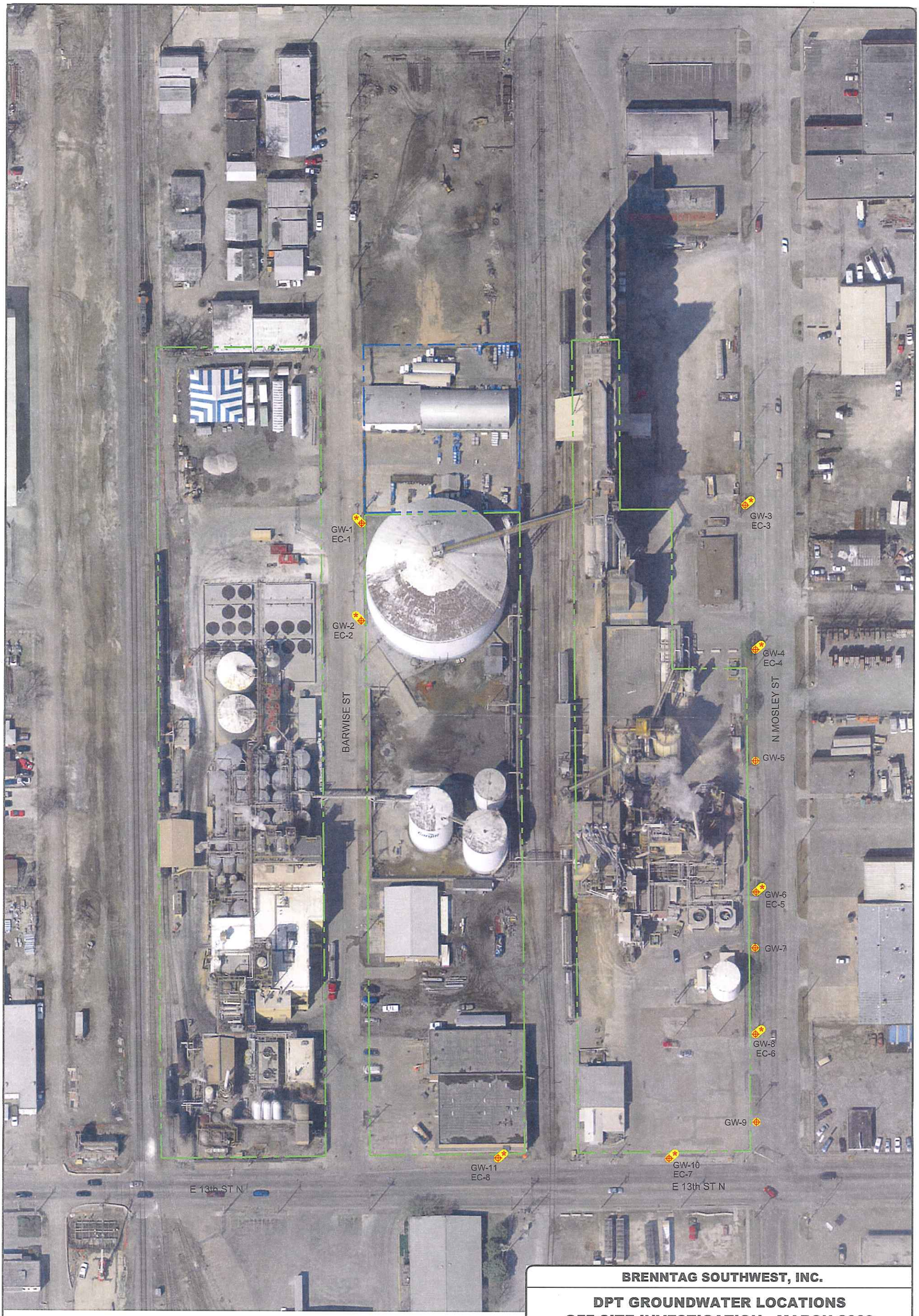
cc: Peter Ramaley, Brenntag
Ray K. Forrester, Foth Infrastructure & Environment
Thomas T. Terp, Taft Stettinius & Hollister LLP

ROBERT M. KICK
LICENSED
556
KANSAS
GEOLOGIST

6-10-09

Attachment A
Figures

605 N. Boonville Avenue • Springfield, MO 65806 • (417) 864-6444 • Fax: (417) 864-6445



LEGEND	
◆	DPT Location (March 2009)
	Cargill Property
	Brenntag Property

Note:
1) Locations (8) indicated by an asterisk (*) had EC logging performed till refusal.

N

BRENNTAG SOUTHWEST, INC.

DPT GROUNDWATER LOCATIONS
OFF-SITE INVESTIGATION - MARCH 2009
WICHITA, KANSAS

SCALE 0 50 100

00FG1477.200

DATE: 06/02/2009
PREPARED BY: ADM
CHECKED BY: KRG

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FIGURE NO. 1

June 2, 2009 - 10:05am adm1 F:\1477_Brenntag\200 - 1520 N. Barwise Investigation\00FG1477-200_Off-Site Results.dwg

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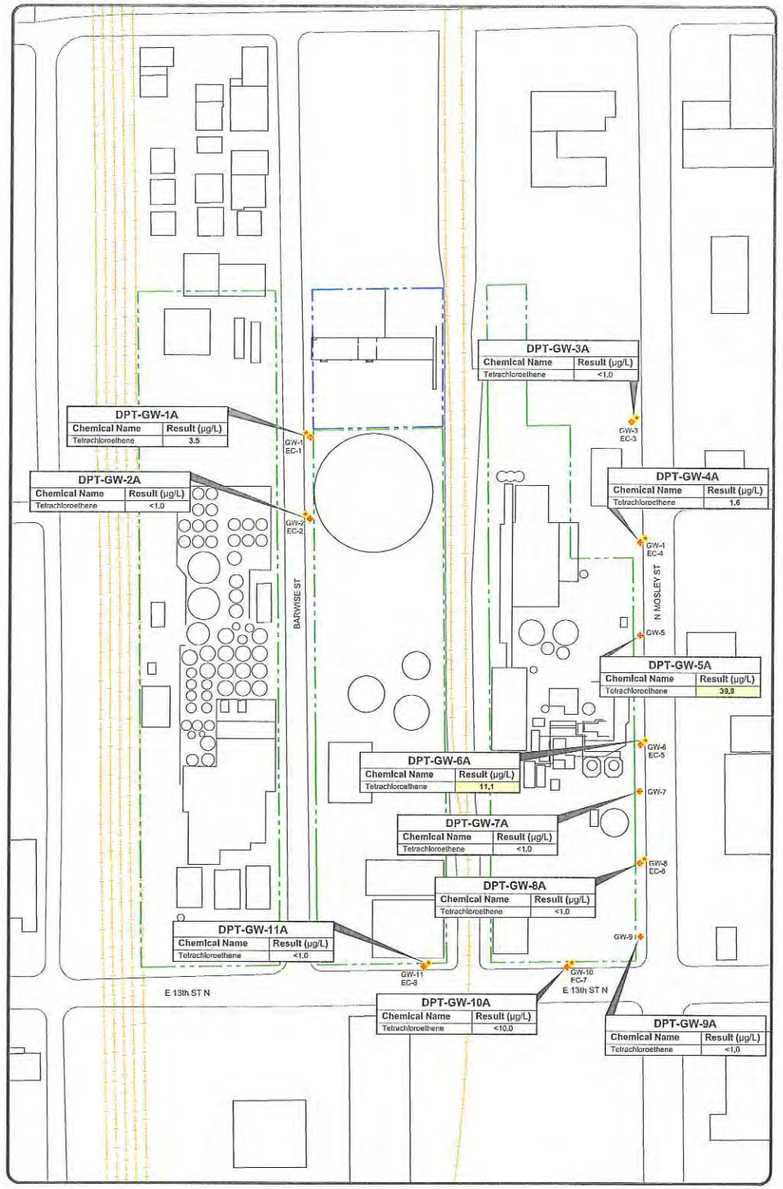
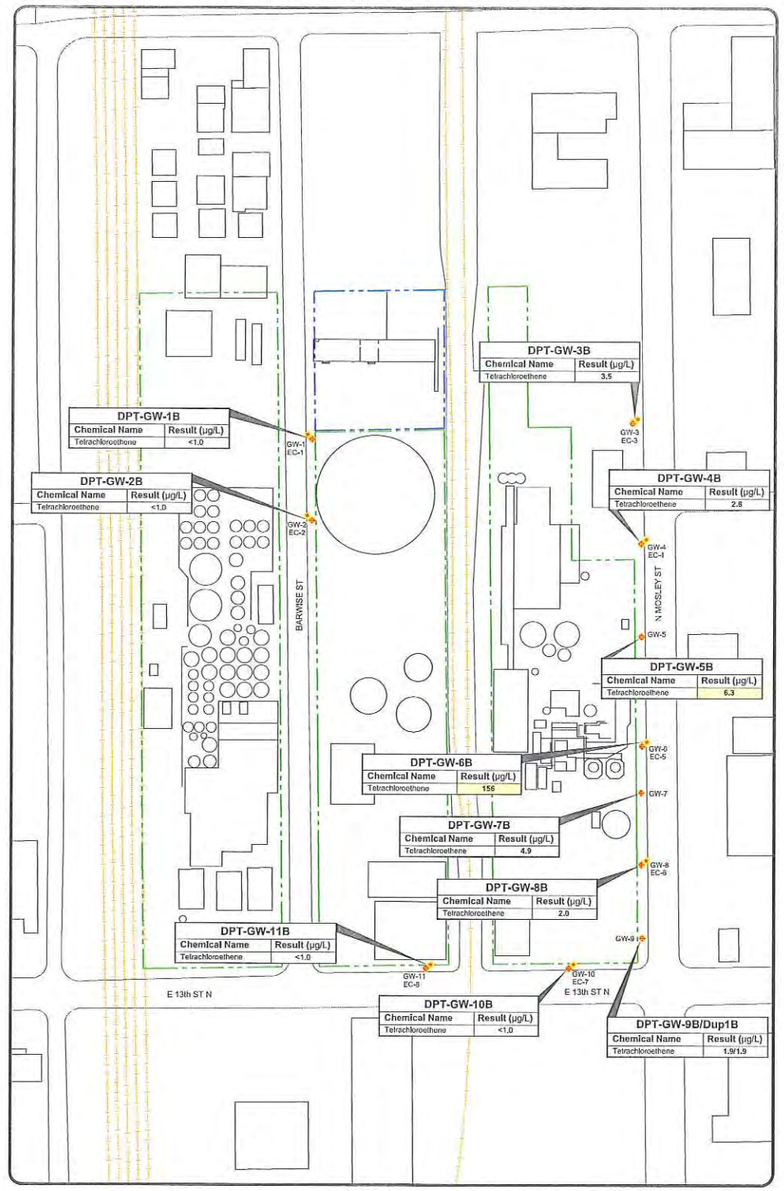
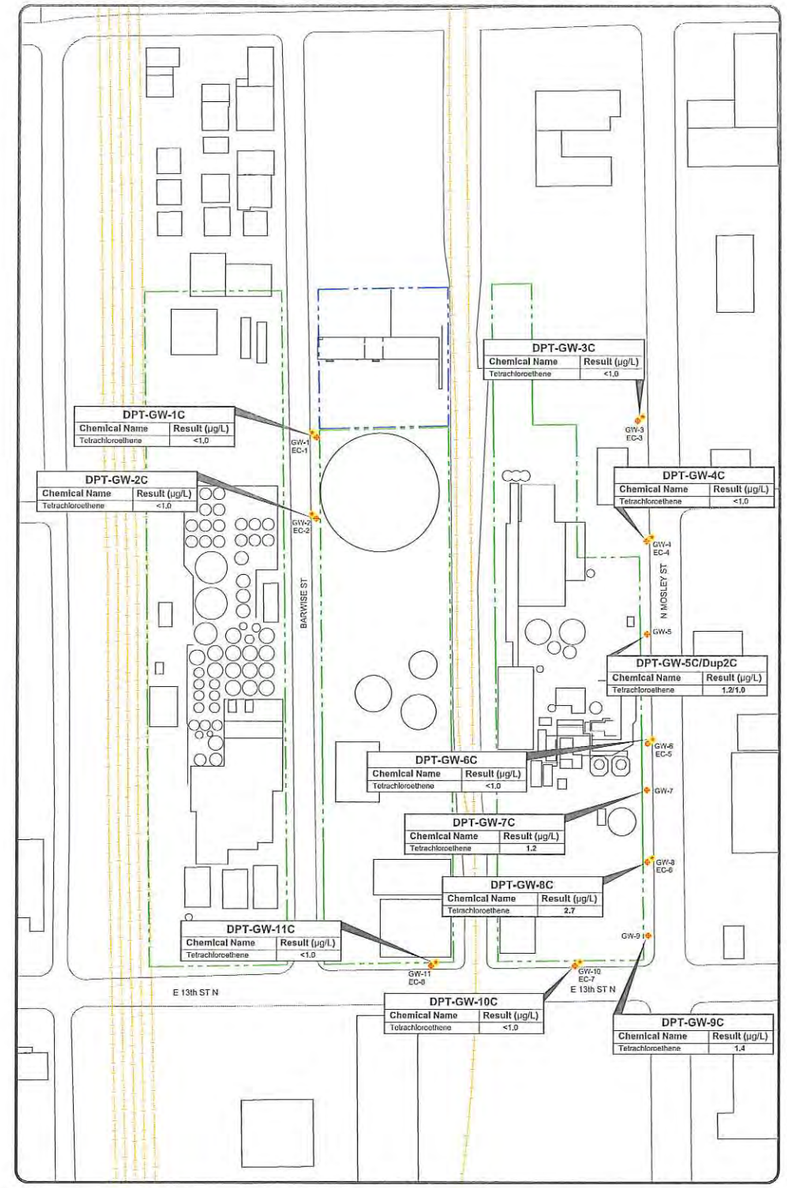
SHALLOW ZONE PCE RESULTS



MIDDLE ZONE PCE RESULTS



DEEP ZONE PCE RESULTS



LEGEND	
⊕	DPT Location (March 2009)
	Cargill Property
	Brenntag Property

Note:
1) Locations (8) indicated by an asterisk (*) had EC logging performed till refusal.
2) Detects in bold. RSK exceedence highlighted

N

BRENNTAG SOUTHWEST, INC.

PCE DPT GROUNDWATER RESULTS OFF-SITE INVESTIGATION - MARCH 2009 WICHITA, KANSAS

SCALE 0 100 200

00FG1477.200

DATE: 06/02/2009
PREPARED BY: ADM
CHECKED BY: KRG

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FIGURE NO. 2

June 2, 2009 - 10:05am adm1 F:\1477_Brenntag\200 - 1520 N. Barwise Investigation\00FG1477-200_Off-Site Results.dwg

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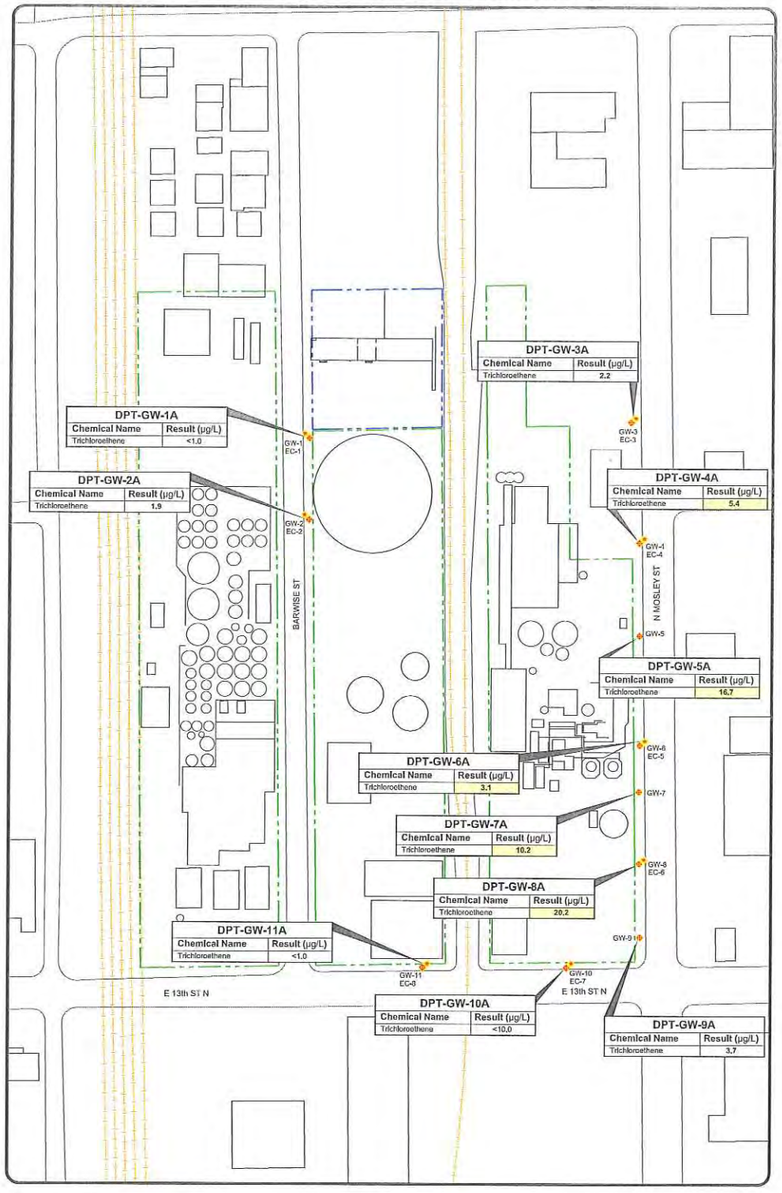
SHALLOW ZONE TCE RESULTS



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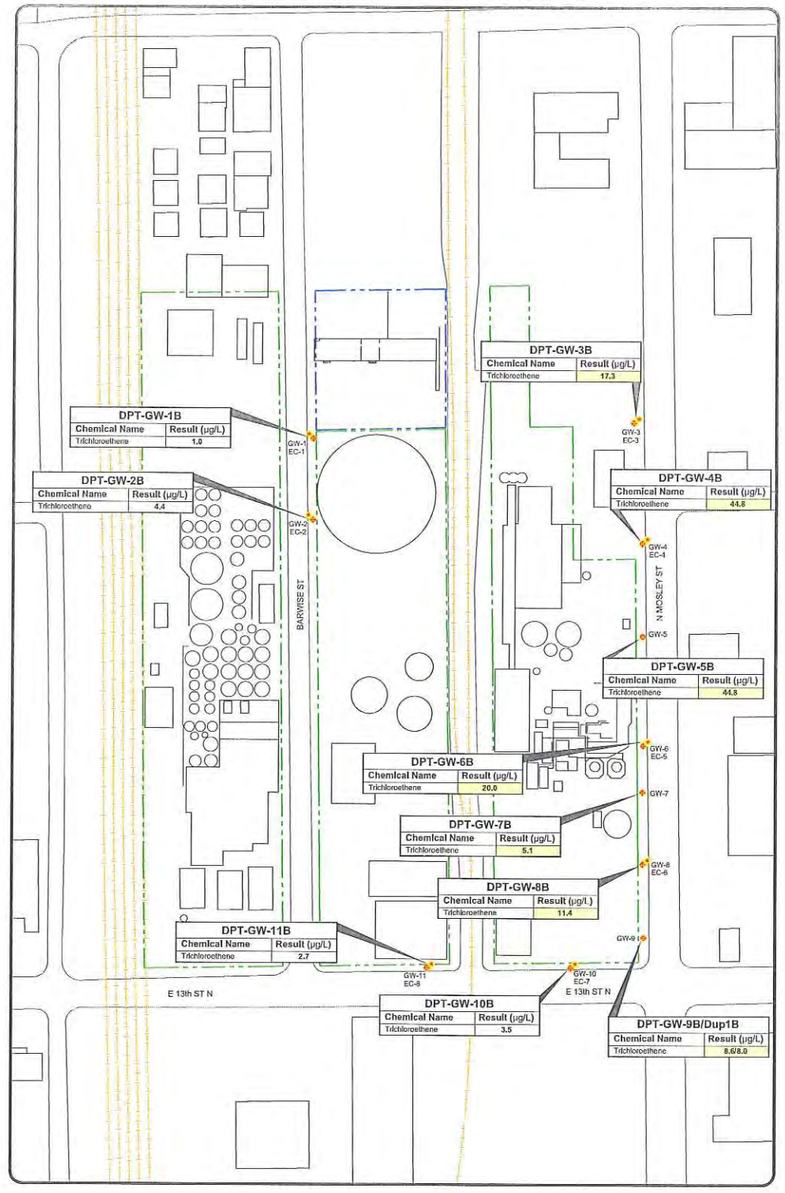
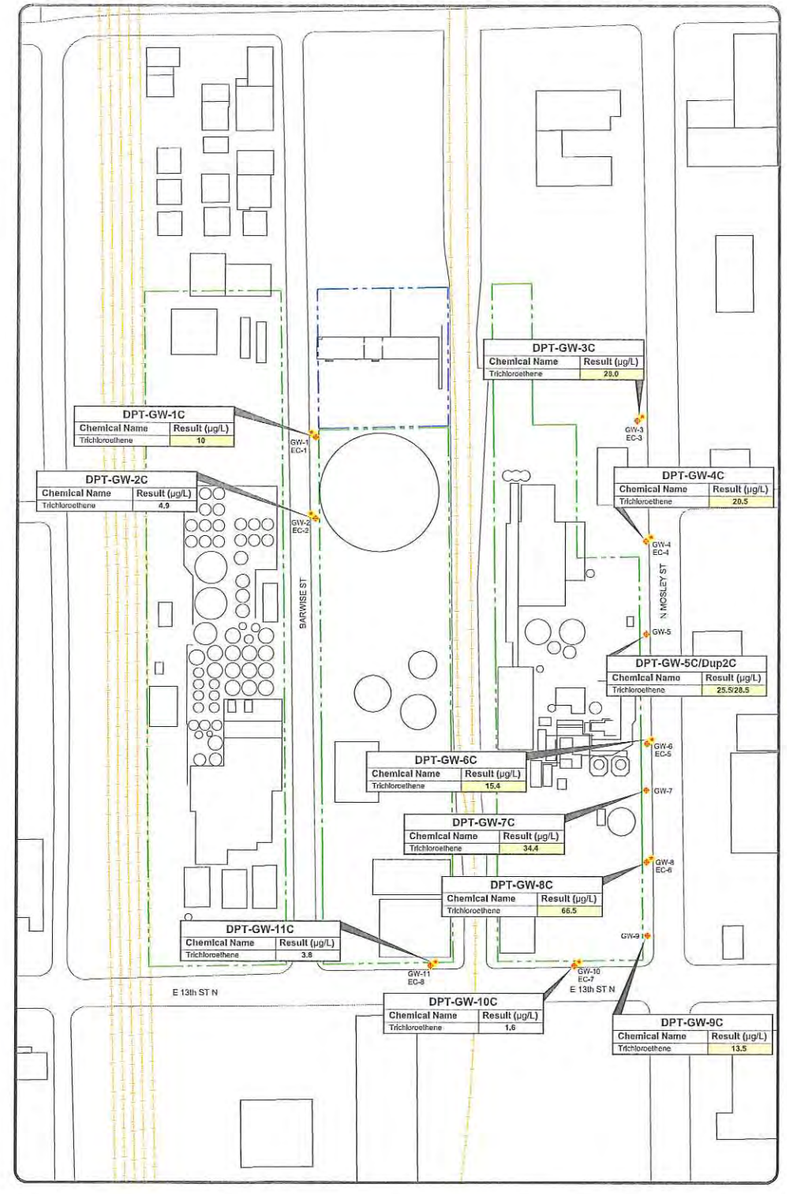


DEEP ZONE TCE RESULTS



LEGEND
DPT Location (March 2009)
Cargill Property
Brenntag Property

Note:
1) Locations (8) indicated by an asterisk (*) had EC logging performed till refusal.
2) Detects in bold. RSK exceedence highlighted

BRENNTAG SOUTHWEST, INC.

TCE DPT GROUNDWATER RESULTS OFF-SITE INVESTIGATION - MARCH 2009 WICHITA, KANSAS

SCALE 0 100 200		00FG1477.200
DATE: 06/02/2009	Foth Foth Infrastructure & Environment, LLC	FIGURE NO. 3
PREPARED BY: ADM		
CHECKED BY: KRG		

June 2, 2009 - 10:05am adm1 F:\1477_Brenntag\200 - 1520 N. Barwise Investigation\00FG1477-200_Off-Site Results.dwg

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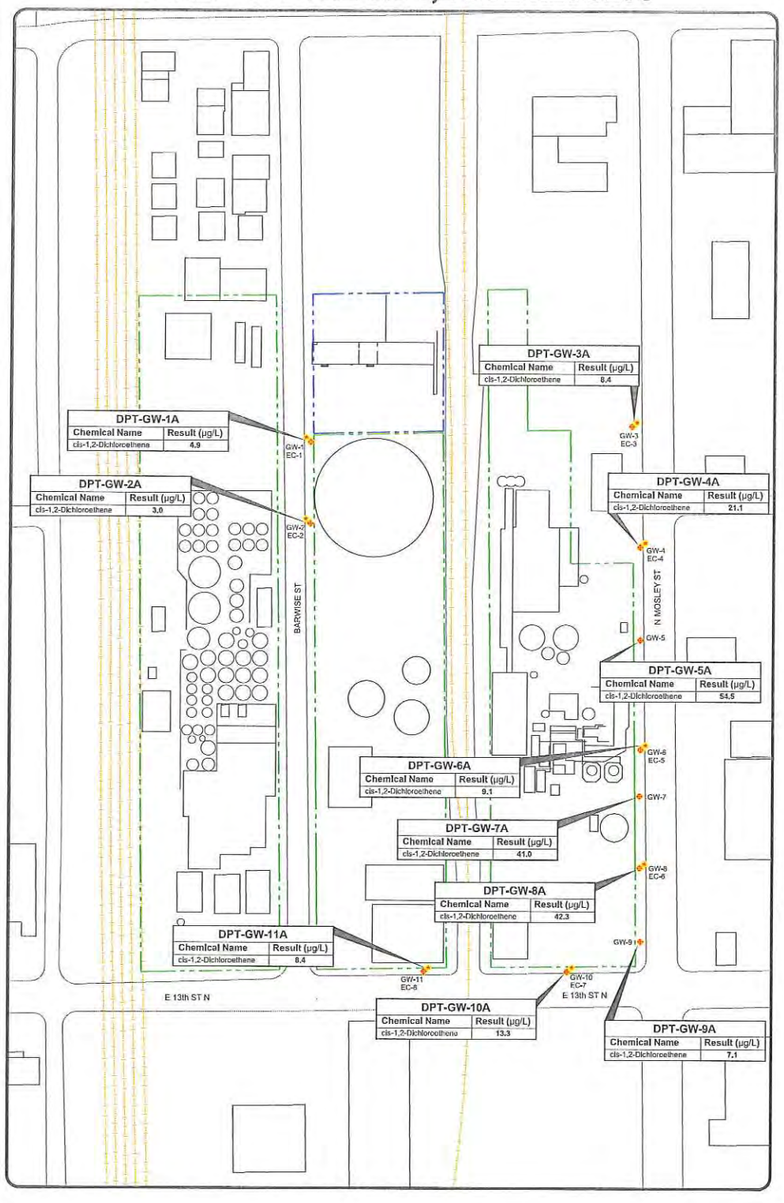
SHALLOW ZONE cis-1,2-DCE RESULTS



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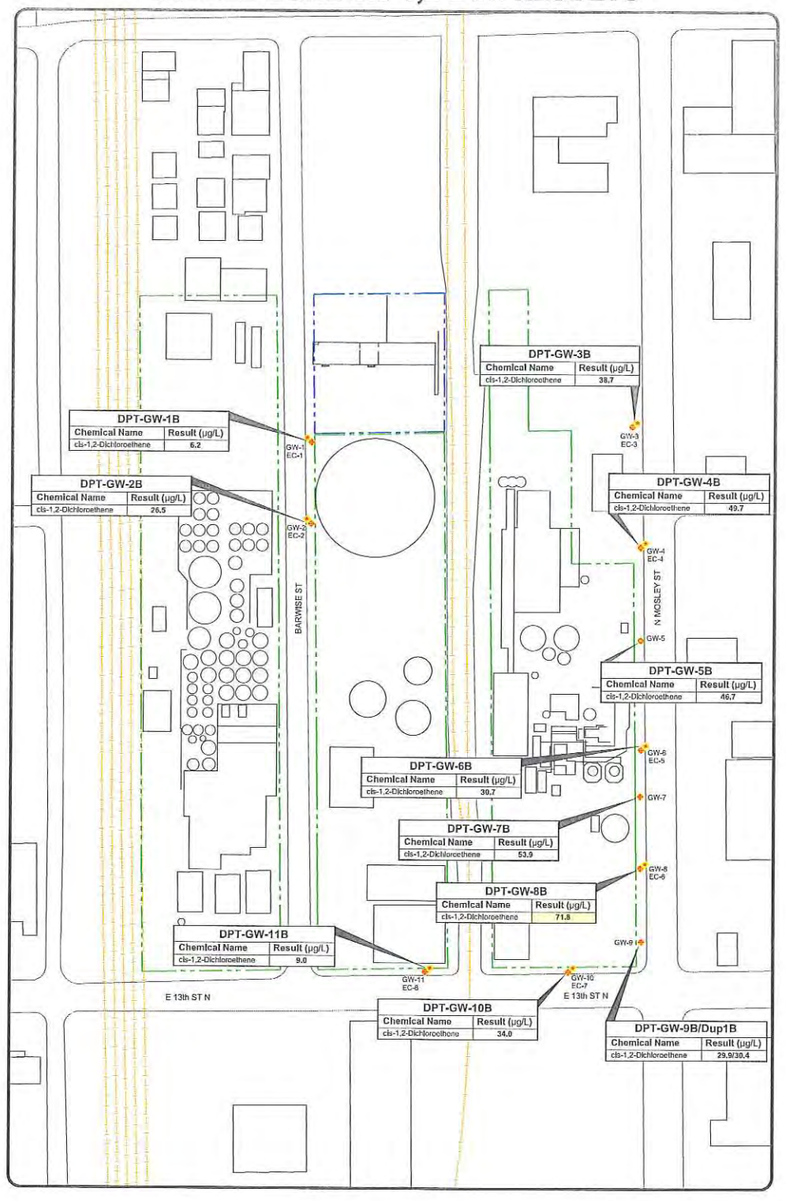
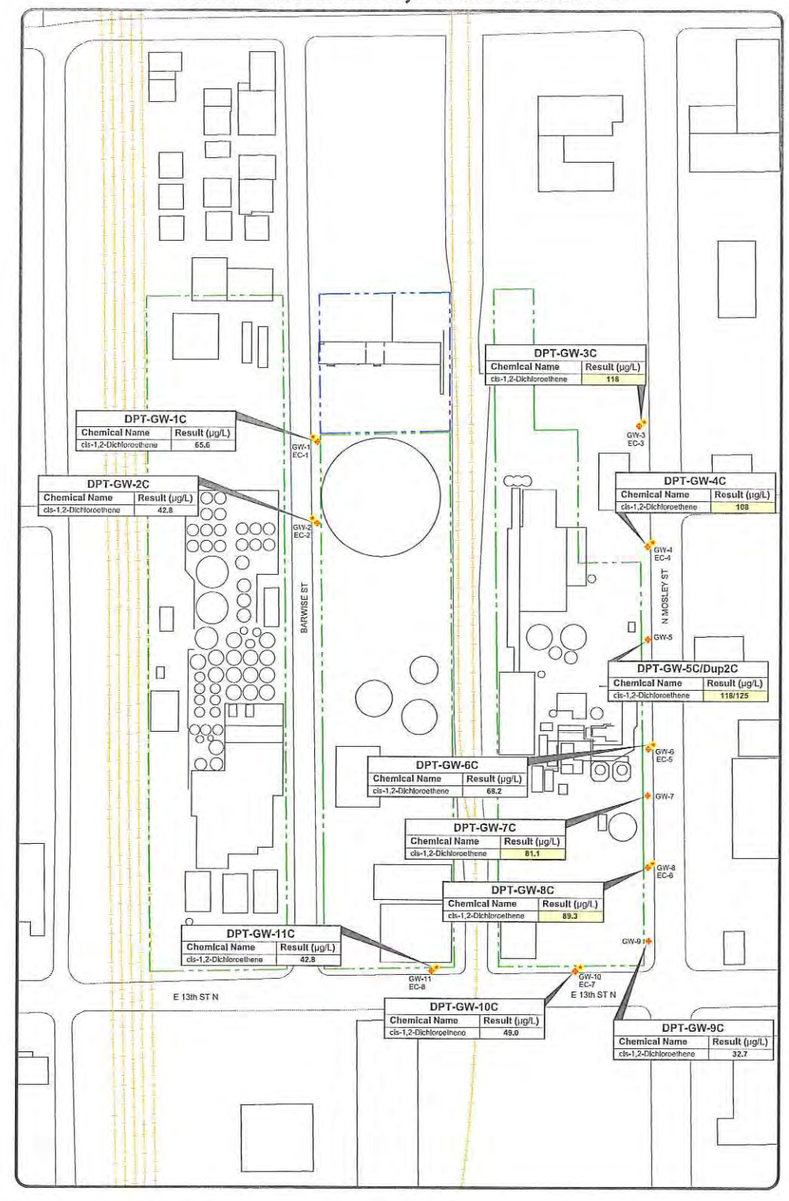


DEEP ZONE cis-1,2-DCE RESULTS



LEGEND	
⌖	DPT Location (March 2009)
	Cargill Property
	Brenntag Property

Note:
1) Locations (8) indicated by an asterisk (*) had EC logging performed till refusal.
2) Detects in bold. RSK exceedence highlighted

N

BRENNTAG SOUTHWEST, INC.

cis-1,2-DCE DPT GROUNDWATER RESULTS
OFF-SITE INVESTIGATION - MARCH 2009
WICHITA, KANSAS

SCALE 0 100 200

00FG1477.200

DATE: 06/02/2009
PREPARED BY: ADM
CHECKED BY: KRG

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FIGURE NO. 4

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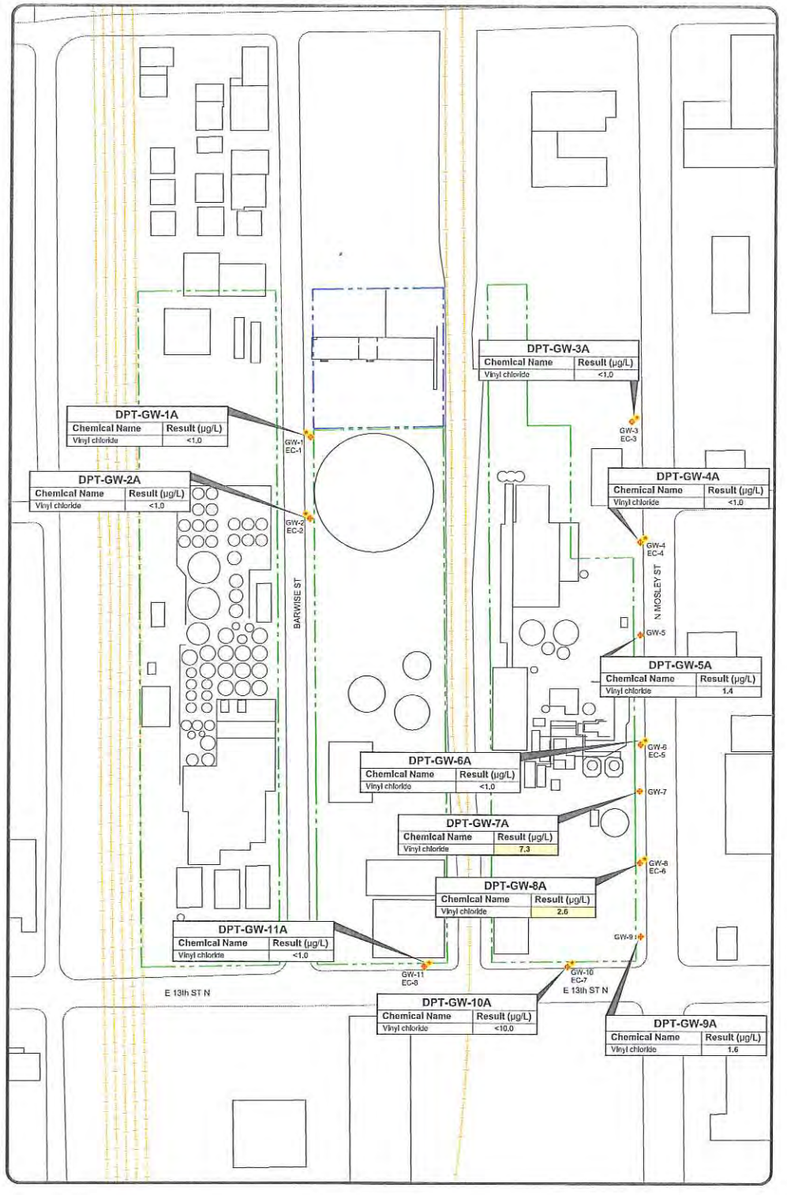
SHALLOW ZONE VC RESULTS



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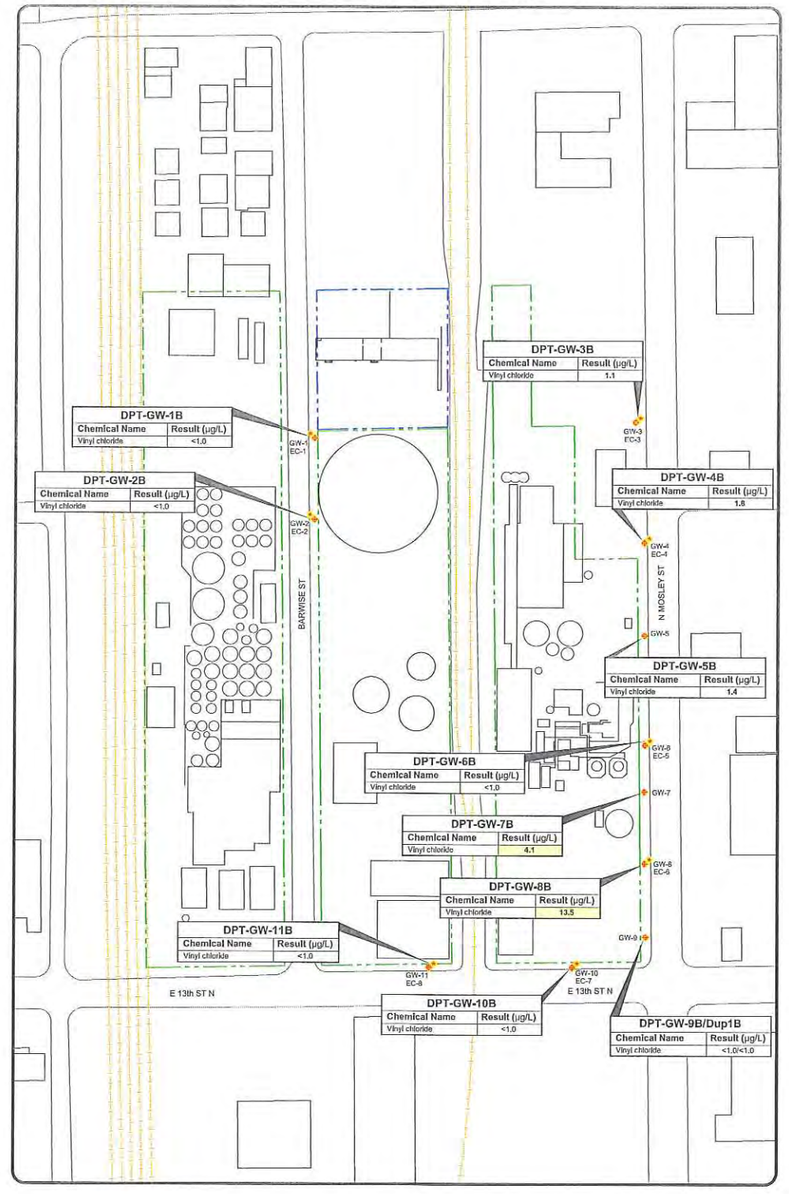

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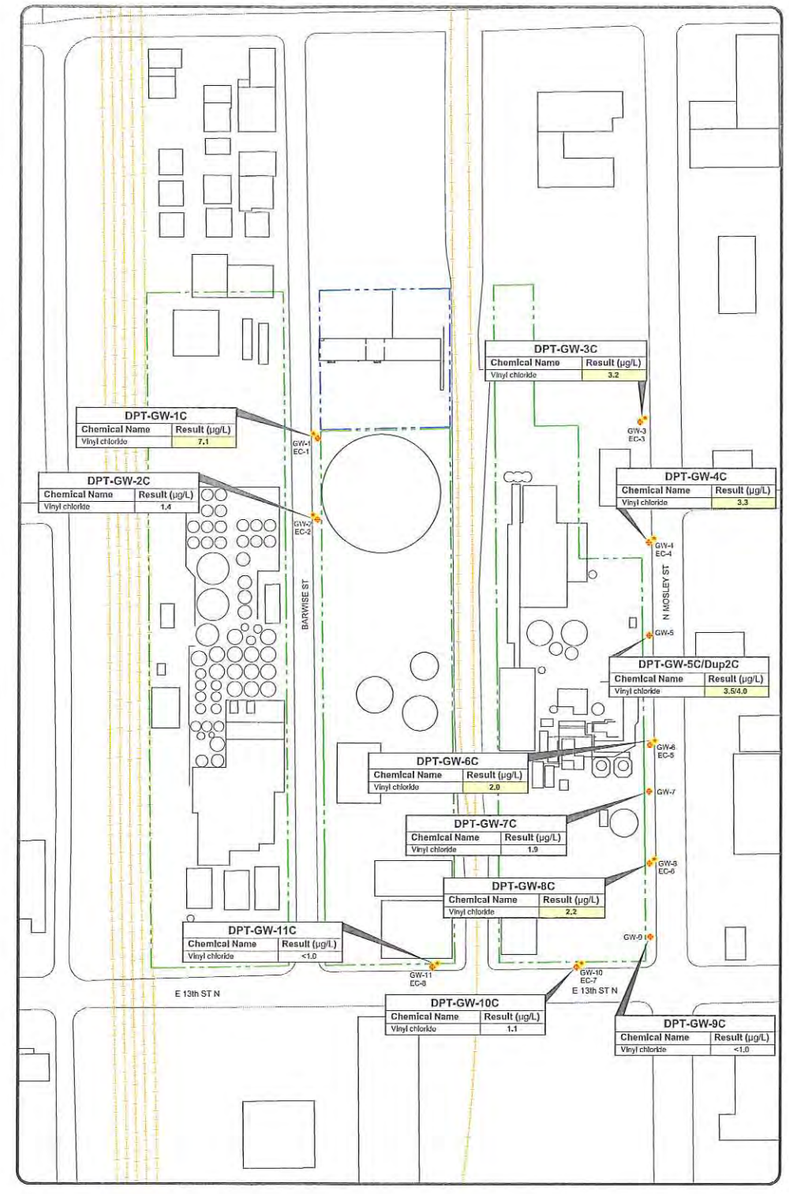

LEGEND	
⊕	DPT Location (March 2009)
	Cargill Property
	Brenntag Property

Note:
1) Locations (8) indicated by an asterisk (*) had EC logging performed till refusal.
2) Detects in bold. RSK exceedence highlighted

N

BRENNTAG SOUTHWEST, INC.

VC DPT GROUNDWATER RESULTS OFF-SITE INVESTIGATION - MARCH 2009 WICHITA, KANSAS

SCALE 0 100 200

00FG1477.200

DATE: 06/02/2009
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FIGURE NO. 5

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Attachment B
Tables

Table 1
Off-Site DPT Groundwater Investigation
Sample Summary
March 2009
Brenntag Southwest, Inc.
Wichita, KS

Sample ID	Sample Date	Sample Time	Sample Interval (ft bgs)	Depth to Water (ft bgs)
DPT-GW-1C	3/11/2009	1515	35-39	12.00
DPT-GW-1B		1520	16-20	
DPT-GW-1A		1530	12-16	
DPT-GW-2C	3/11/2009	1435	35-39	12.40
DPT-GW-2B		1445	23-27	
DPT-GW-2A		1455	12-16	
DPT-GW-3C	3/11/2009	1320	34-38	11.98
DPT-GW-3B		1335	17-21	
DPT-GW-3A		1345	12-16	
DPT-GW-4C	3/11/2009	1145	33-37	11.20
DPT-GW-4B		1200	22-26	
DPT-GW-4A		1205	12-16	
DPT-GW-5C	3/11/2009	1055	34-38	12.85
DPT-GW-5B		1110	23-27	
DPT-GW-5A		1125	13-17	
DPT-GW-6C	3/11/2009	930	30-34	12.70
DPT-GW-6B		1010	22-26	
DPT-GW-6A		1020	13-17	
DPT-GW-7C	3/11/2009	845	32-36	13.05
DPT-GW-7B		900	23-27	
DPT-GW-7A		910	13-17	
DPT-GW-8C	3/10/2009	1620	32-36	12.00
DPT-GW-8B		1635	22-26	
DPT-GW-8A		1645	13-17	
DPT-GW-9C	3/10/2009	1535	32-36	12.70
DPT-GW-9B		1545	23-27	
DPT-GW-9A		1600	13-17	
DPT-GW-10C	3/10/2009	1425	33-37	12.90
DPT-GW-10B		1430	23-27	
DPT-GW-10A		1440	13-17	
DPT-GW-11C	3/10/2009	1315	34-38	12.60
DPT-GW-11B		1325	23-27	
DPT-GW-11A		1345	13-17	

Table 2
Off-Site DPT Groundwater Investigation
Chemical Comparison
March 2009
Brenntag Southwest, Inc.
Wichita, KS

Chemicals Name	RSK for Residential Groundwater Pathway	Maximum On-Site Detection in Groundwater[1]	Maximum Off-Site Detection in Groundwater[2]
1,1-Dichloroethane	340	1.2	4.6
1,1-Dichloroethene	7	2.4	3.5
1,2-Dichloroethene (Total)	--	112	127
cis-1,2-Dichloroethene	70	**110**	**125**
Tetrachloroethene	5	**19.4**	**156**
trans-1,2-Dichloroethene	100	2.4	4
Trichloroethene	5	**12**	**66.5**
Vinyl chloride	2	**2.9**	**13.5**
Chlorobenzene	100	1.9	1
1,2,4-Trimethylbenzene	5	<1.0	1.1
1,3,5-Trimethylbenzene	5	<1.0	1.4
Benzene	5	<1.0	**762**
Carbon disulfide	9	<5.0	6.1
Ethylbenzene	700	<1.0	147
Isopropylbenzene (Cumene)	--	<1.0	166
Naphthalene	3	<10.0	**753**
n-Butylbenzene	21	<1.0	**98.9**
n-Propylbenzene	20	<1.0	**609**
sec-Butylbenzene	22	<1.0	**35.4**
Toluene	1	<1.0	**16.7**
Xylene (Total)	--	<3.0	16.3
Acetone	260	<10.0	14.5
Chloroform	80	<1.0	4.8

[1] Maximum On-Site Detection in Groundwater collected in March 2009 from monitoring wells with hydra-sleeve samplers.

[2] Maximum Off-Site Detection in Groundwater collected in March 2009 from a DPT screen-point sampler.

< # - Not detected at or above adjusted reporting limit.

Bolded results exceed RSK value.

Sample location in parenthesis.

Table 3
Off-Site DPT Groundwater Investigation
Analytical Data
March 2009
Brenntag Southwest, Inc.
Wichita, KS

Chemical Name	Units	RSK for Residential Groundwater Pathway	DPT-GW-1A	DPT-GW-1B	DPT-GW-1C	DPT-GW-2A	DPT-GW-2B	DPT-GW-2C	DPT-GW-3A	DPT-GW-3B	DPT-GW-3C	DPT-GW-4A	DPT-GW-4B	DPT-GW-4C	DPT-GW-5A	DPT-GW-5B	DPT-GW-5C	DPT-GW-DUP2C	DPT-GW-6A	DPT-GW-6B	DPT-GW-6C	DPT-GW-7A	DPT-GW-7B	DPT-GW-7C	DPT-GW-8A	DPT-GW-8B
			12 - 16	16 - 20	35 - 39	12 - 16	23 - 27	35 - 39	12 - 16	17 - 21	34 - 38	12 - 16	22 - 26	33 - 37	13 - 17	23 - 27	34 - 38		13 - 17	22 - 26	30 - 34	13 - 17	23 - 27	32 - 36	13 - 17	22 - 26
1,1,1,2-Tetrachloroethane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L	0.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L	340	<1.0	<1.0	<1.0	<1.0	**1.3**	**1.0**	<1.0	<1.0	**1.4**	<1.0	<1.0	**1.2**	<1.0	<1.0	**1.4**	**1.4**	<1.0	<1.0	<1.0	**1.0**	**1.2**	**1.1**	**1.4**	**4.6**
1,1-Dichloroethene	ug/L	7	<1.0	<1.0	**1.9**	<1.0	<1.0	<1.0	<1.0	**1.1**	**3.5**	<1.0	**1.6**	**2.7**	**1.2**	**1.5**	**3.0**	**3.2**	<1.0	<1.0	**1.3**	<1.0	<1.0	**2.0**	<1.0	<1.0
1,1-Dichloropropene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L	0.4	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trichlorobenzene	ug/L	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/L	--	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane (EDB)	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (Total)	ug/L	--	**4.9**	**6.2**	**69.6**	**3.0**	**26.9**	**43.5**	**8.5**	**39.4**	**120**	**21.5**	**50.9**	**109**	**55.4**	**47.9**	**120**	**127**	**9.2**	**31.2**	**69.6**	**41.8**	**54.5**	**83.1**	**43.4**	**72.8**
1,2-Dichloropropane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	ug/L	820	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/L	--	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	ug/L	--	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetone	ug/L	260	<10.0	<10.0	<10.0	<10.0	**10.5**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Benzene	ug/L	5	<1.0	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	ug/L	9	<5.0	<5.0	**6.1**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	100	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	89	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/L	70	**4.9**	**6.2**	**65.6**	**3.0**	**26.5**	**42.8**	**8.4**	**38.7**	**118**	**21.1**	**49.7**	**108**	**54.5**	**46.7**	**118**	**125**	**9.1**	**30.7**	**68.2**	**41.0**	**53.9**	**81.1**	**42.3**	**71.8**
cis-1,3-Dichloropropene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/L	170	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene (Cumene)	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L	3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	ug/L	22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	ug/L	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/L	5	**3.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**	<1.0	**1.6**	**2.8**	<1.0	**39.8**	**6.3**	**1.2**	**1.0**	**11.1**	**156**	<1.0	<1.0	**4.9**	**1.2**	<1.0	**2.0**
Toluene	ug/L	1	<1.0	<1.0	**2.0**	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L	100	<1.0	<1.0	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.0**	<1.0	**1.2**	1.5	<1.0	**1.2**	**2.1**	**2.3**	<1.0	<1.0	**1.4**	<1.0	<1.0	**2.0**	**1.1**	**1.1**
trans-1,3-Dichloropropene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/L	5	<1.0	**1.0**	**10**	**1.9**	**4.4**	**4.9**	**2.2**	**17.3**	**28.0**	**5.4**	**44.8**	**20.5**	**16.7**	**44.8**	**25.5**	**28.5**	**3.1**	**20.0**	**15.4**	**10.2**	**5.1**	**34.4**	**20.2**	**11.4**
Trichlorofluoromethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	ug/L	2	<1.0	<1.0	**7.1**	<1.0	<1.0	**1.4**	<1.0	**1.1**	**3.2**	<1.0	**1.8**	**3.3**	**1.4**	**1.4**	**3.5**	**4.0**	<1.0	<1.0	**2.0**	**7.3**	**4.1**	**1.9**	**2.6**	**13.5**
Xylene (Total)	ug/L	--	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Table 3
Off-Site DPT Groundwater Investigation
Analytical Data
March 2009
Brenntag Southwest, Inc.
Wichita, KS

Chemical Name	Units	RSK for Residential Groundwater Pathway	DPT-GW-8C	DPT-GW-9A	DPT-GW-9B	DPT-GW-DUP1B	DPT-GW-9C	DPT-GW-10A	DPT-GW-10B	DPT-GW-10C	DPT-GW-11A	DPT-GW-11B	DPT-GW-11C	DPT-GW-EB1	DPT-GW-EB2	TRIP BLANK
			32 - 36	13 - 17	23 - 27		32 - 36	13 - 17	23 - 27	33 - 37	13 - 17	23 - 27	34 - 38	--	--	--
1,1,1,2-Tetrachloroethane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L	200	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L	0.7	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L	340	**1.2**	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/L	7	**2.0**	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L	0.4	<2.5	<2.5	<2.5	<2.5	<2.5	<25.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trichlorobenzene	ug/L	70	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L	5	<1.0	**1.1**	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/L	--	<2.5	<2.5	<2.5	<2.5	<2.5	<25.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane (EDB)	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	600	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (Total)	ug/L	--	**91.9**	**7.1**	**30.5**	**31.0**	**33.3**	**13.3**	**34.0**	**49.7**	**8.5**	**9.2**	**43.5**	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L	5	<1.0	**1.4**	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	75	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	ug/L	820	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/L	--	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
4-Chlorotoluene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	ug/L	--	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetone	ug/L	260	<10.0	<10.0	<10.0	<10.0	**14.5**	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Benzene	ug/L	5	**1.4**	**762**	<1.0	<1.0	<1.0	**532**	<1.0	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L	4	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	ug/L	9	<5.0	<5.0	<5.0	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	100	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	89	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	80	<1.0	<1.0	<1.0	<1.0	**1.1**	<10.0	**4.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L	20	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/L	70	**89.3**	**7.1**	**29.9**	**30.4**	**32.7**	**13.3**	**34.0**	**49.0**	**8.4**	**9.0**	**42.8**	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/L	170	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	700	<1.0	**6.9**	<1.0	<1.0	<1.0	**147**	**4.8**	**17.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene (Cumene)	ug/L	--	<1.0	**33.2**	<1.0	<1.0	**2.1**	**166**	**6.2**	**18.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L	3	<10.0	<10.0	<10.0	<10.0	<10.0	**753**	<10.0	**51.0**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	21	<1.0	**20.0**	<1.0	<1.0	**7.8**	**98.9**	**4.8**	**18.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	20	<1.0	**118**	**1.8**	**1.3**	**16.5**	**609**	**21.7**	**68.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	ug/L	22	<1.0	**10.6**	<1.0	<1.0	**3.7**	**35.4**	**2.1**	**6.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	ug/L	100	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/L	5	**2.7**	<1.0	**1.9**	**1.9**	**1.4**	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	1	<1.0	**15.0**	<1.0	<1.0	<1.0	**16.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L	100	**2.5**	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/L	5	**66.5**	**3.7**	**8.6**	**8.0**	**13.5**	<10.0	**3.5**	**1.6**	<1.0	**2.7**	**3.8**	<1.0	<1.0	<1.0
Trichlorofluoromethane	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	ug/L	2	**2.2**	**1.6**	<1.0	<1.0	<1.0	<10.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene (Total)	ug/L	--	<3.0	**16.3**	<3.0	<3.0	<3.0	<30.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Table 4
Off-Site DPT Groundwater Investigation
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Brenntag Southwest, Inc.
Wichita, KS

Chemical Name	Units	RSK for Residential Groundwater Pathway	DPT-GW-1A	DPT-GW-1B	DPT-GW-1C	DPT-GW-2A	DPT-GW-2B	DPT-GW-2C	DPT-GW-3A	DPT-GW-3B	DPT-GW-3C	DPT-GW-4A	DPT-GW-4B	DPT-GW-4C	DPT-GW-5A	DPT-GW-5B	DPT-GW-5C	DPT-GW-DUP2C	DPT-GW-6A	DPT-GW-6B	DPT-GW-6C	DPT-GW-7A
			12 - 16	16 - 20	35 - 39	12 - 16	23 - 27	35 - 39	12 - 16	17 - 21	34 - 38	12 - 16	22 - 26	33 - 37	13 - 17	23 - 27	34 - 38		13 - 17	22 - 26	30 - 34	13 - 17
1,1-Dichloroethane	ug/L	340	<1.0	<1.0	<1.0	<1.0	1.3	1.0	<1.0	<1.0	1.4	<1.0	<1.0	1.2	<1.0	<1.0	1.4	1.4	<1.0	<1.0	<1.0	1.0
1,1-Dichloroethene	ug/L	7	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	1.1	3.5	<1.0	1.6	2.7	1.2	1.5	3.0	3.2	<1.0	<1.0	1.3	<1.0
1,2,4-Trimethylbenzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (Total)	ug/L	--	4.9	6.2	69.6	3.0	26.9	43.5	8.5	39.4	120	21.5	50.9	109	55.4	47.9	120	127	9.2	31.2	69.6	41.8
1,3,5-Trimethylbenzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	ug/L	260	<10.0	<10.0	<10.0	<10.0	10.5	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Benzene	ug/L	5	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	ug/L	9	<5.0	<5.0	6.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	100	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/L	70	4.9	6.2	65.6	3.0	26.5	42.8	8.4	38.7	118	21.1	49.7	108	54.5	46.7	118	125	9.1	30.7	68.2	41.0
Ethylbenzene	ug/L	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene (Cumene)	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L	3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	ug/L	22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/L	5	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	1.6	2.8	<1.0	39.8	6.3	1.2	1.0	11.1	156	<1.0	<1.0
Toluene	ug/L	1	<1.0	<1.0	2.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L	100	<1.0	<1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	1.2	1.5	<1.0	1.2	2.1	2.3	<1.0	<1.0	1.4	<1.0
Trichloroethene	ug/L	5	<1.0	1.0	10	1.9	4.4	4.9	2.2	17.3	28.0	5.4	44.8	20.5	16.7	44.8	25.5	28.5	3.1	20.0	15.4	10.2
Vinyl chloride	ug/L	2	<1.0	<1.0	7.1	<1.0	<1.0	1.4	<1.0	1.1	3.2	<1.0	1.8	3.3	1.4	1.4	3.5	4.0	<1.0	<1.0	2.0	7.3
Xylene (Total)	ug/L	--	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

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Brenntag Southwest, Inc.
Wichita, KS

Chemical Name	Units	RSK for Residential Groundwater Pathway	DPT-GW-7B	DPT-GW-7C	DPT-GW-8A	DPT-GW-8B	DPT-GW-8C	DPT-GW-9A	DPT-GW-9B	DPT-GW-DUP1B	DPT-GW-9C	DPT-GW-10A	DPT-GW-10B	DPT-GW-10C	DPT-GW-11A	DPT-GW-11B	DPT-GW-11C
			23 - 27	32 - 36	13 - 17	22 - 26	32 - 36	13 - 17	23 - 27		32 - 36	13 - 17	23 - 27	33 - 37	13 - 17	23 - 27	34 - 38
1,1-Dichloroethane	ug/L	340	1.2	1.1	1.4	4.6	1.2	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	1.6
1,1-Dichloroethene	ug/L	7	<1.0	2.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (Total)	ug/L	--	54.5	83.1	43.4	72.8	91.9	7.1	30.5	31.0	33.3	13.3	34.0	49.7	8.5	9.2	43.5
1,3,5-Trimethylbenzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acetone	ug/L	260	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	14.5	<100	<10.0	<10.0	<10.0	<10.0	<10.0
Benzene	ug/L	5	<1.0	<1.0	<1.0	<1.0	1.4	762	<1.0	<1.0	<1.0	532	<1.0	2.4	<1.0	<1.0	<1.0
Carbon disulfide	ug/L	9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<10.0	4.8	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/L	70	53.9	81.1	42.3	71.8	89.3	7.1	29.9	30.4	32.7	13.3	34.0	49.0	8.4	9.0	42.8
Ethylbenzene	ug/L	700	<1.0	<1.0	<1.0	<1.0	<1.0	6.9	<1.0	<1.0	<1.0	147	4.8	17.1	<1.0	<1.0	<1.0
Isopropylbenzene (Cumene)	ug/L	--	<1.0	<1.0	<1.0	<1.0	<1.0	33.2	<1.0	<1.0	2.1	166	6.2	18.0	<1.0	<1.0	<1.0
Naphthalene	ug/L	3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	753	<10.0	51.0	<10.0	<10.0	<10.0
n-Butylbenzene	ug/L	21	<1.0	<1.0	<1.0	<1.0	<1.0	20.0	<1.0	<1.0	7.8	98.9	4.8	18.1	<1.0	<1.0	<1.0
n-Propylbenzene	ug/L	20	<1.0	<1.0	<1.0	<1.0	<1.0	118	1.8	1.3	16.5	609	21.7	68.9	<1.0	<1.0	<1.0
sec-Butylbenzene	ug/L	22	<1.0	<1.0	<1.0	<1.0	<1.0	10.6	<1.0	<1.0	3.7	35.4	2.1	6.1	<1.0	<1.0	<1.0
Tetrachloroethene	ug/L	5	4.9	1.2	<1.0	2.0	2.7	<1.0	1.9	1.9	1.4	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	15.0	<1.0	<1.0	<1.0	16.7	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L	100	<1.0	2.0	1.1	1.1	2.5	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	ug/L	5	5.1	34.4	20.2	11.4	66.5	3.7	8.6	8.0	13.5	<10.0	3.5	1.6	<1.0	2.7	3.8
Vinyl chloride	ug/L	2	4.1	1.9	2.6	13.5	2.2	1.6	<1.0	<1.0	<1.0	<10.0	<1.0	1.1	<1.0	<1.0	<1.0
Xylene (Total)	ug/L	--	<3.0	<3.0	<3.0	<3.0	<3.0	16.3	<3.0	<3.0	<3.0	<30.0	<3.0	<3.0	<3.0	<3.0	<3.0

Attachment C
Field Forms

Project: Brenntag Southwest, Inc. Project Number 1477-200-250

Date: 3/11/2009 Start Time: 1505

Location ID: DPT-GW-1 Contractor: GSI GSI

Sampler: Kris Gamble Abandonment: Bentonite

Depth to Water: 12

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-1C	1515	35-39	light brown/with sediment	
DPT-GW-1B	1520	16-20	light brown/with sediment	
DPT-GW-1A	1530	12-16	light brown/with sediment	

Comments:

DPT-GW-EB2 @ 1545

Finish Time: 1550

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/11/2009

Start Time: 1415

Location ID: DPT-GW-2

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 12.4

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-2C	1435	35-39	gray with sediment	KDHE split
DPT-GW-2B	1445	23-27	light brown with sediment	
DPT-GW-2A	1455	12-16	light brown with sediment	

Comments:

Finish Time: 1500

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/11/2009

Start Time: 1315

Location ID: DPT-GW-3

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 11.98

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-3C	1320	34-38	light brown/with sediment	
DPT-GW-3B	1335	17-21	light brown/with sediment	KDHE split
DPT-GW-3A	1345	12-16	light brown/with sediment	

Comments:

DPT-GW-EB1 @ 1310

Finish Time: 1350

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/11/2009

Start Time: 1135

Location ID: DPT-GW-4

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 11.2

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-4C	1145	33-37	light brown/with sediment	
DPT-GW-4B	1200	22-26	light brown/with sediment	
DPT-GW-4A	1205	12-16	light brown/with sediment	

Comments:

Finish Time: 1215

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/11/2009

Start Time: 1050

Location ID: DPT-GW-5

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 12.85

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-5C	1055	34-38	light brown/with sediment	
DPT-GW-5B	1110	23-27	light brown/with sediment	MS/MSD
DPT-GW-5A	1125	13-17	light brown/with sediment	

Comments: DPT-GW-DUP2C @ 1105

Finish Time: 1130

DPT Groundwater Sampling Log Form

Project: Bremtag Southwest, Inc.

Project Number 1477-200-250

Date: 3/11/2009

Start Time: 918

Location ID: DPT-GW-6

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 12.7

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-6C	930	30-34	light brown/with sediment	
DPT-GW-6B	1010	22-26	light brown/with sediment	
DPT-GW-6A	1020	13-17	light brown/with sediment	

Comments:

Finish Time: 1030

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/11/2009

Start Time: 835

Location ID: DPT-GW-7

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 13.05

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-7C	845	32-36	light brown/with sediment	MS/MSD
DPT-GW-7B	900	23-27	light brown/with sediment	
DPT-GW-7A	910	13-17	light brown/with sediment	

Comments:

Finish Time: 915

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/10/2009

Start Time: 1615

Location ID: DPT-GW-8

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 12

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-8C	1620	32-36	light brown/with sediment	
DPT-GW-8B	1635	22-26	light brown/with sediment	
DPT-GW-8A	1645	13-17	light brown/with sediment	

Comments:

Finish Time: 1650

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/10/2009

Start Time: 1515

Location ID: DPT-GW-9

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 12.7

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-9C	1535	32-36	light brown/with sediment	
DPT-GW-9B	1545	23-27	light brown/with sediment	
DPT-GW-9A	1600	13-17	gray with sediment	

Comments: DPT-GW-DUP1B 1555

Finish Time: 1610

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/10/2009

Start Time: 1410

Location ID: DPT-GW-10

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

Depth to Water: 12.9

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-10C	1425	33-37	gray with sediment	
DPT-GW-10B	1430	23-27	light brown/with sediment	
DPT-GW-10A	1440	13-17	light brown/with sediment	

Comments:

Finish Time: 1450

DPT Groundwater Sampling Log Form

Project: Brenntag Southwest, Inc.

Project Number 1477-200-250

Date: 3/10/2009

Start Time: 1300

Location ID: DPT-GW-11

Contractor: GSI

Sampler: Kris Gamble

Abandonment: Bentonite

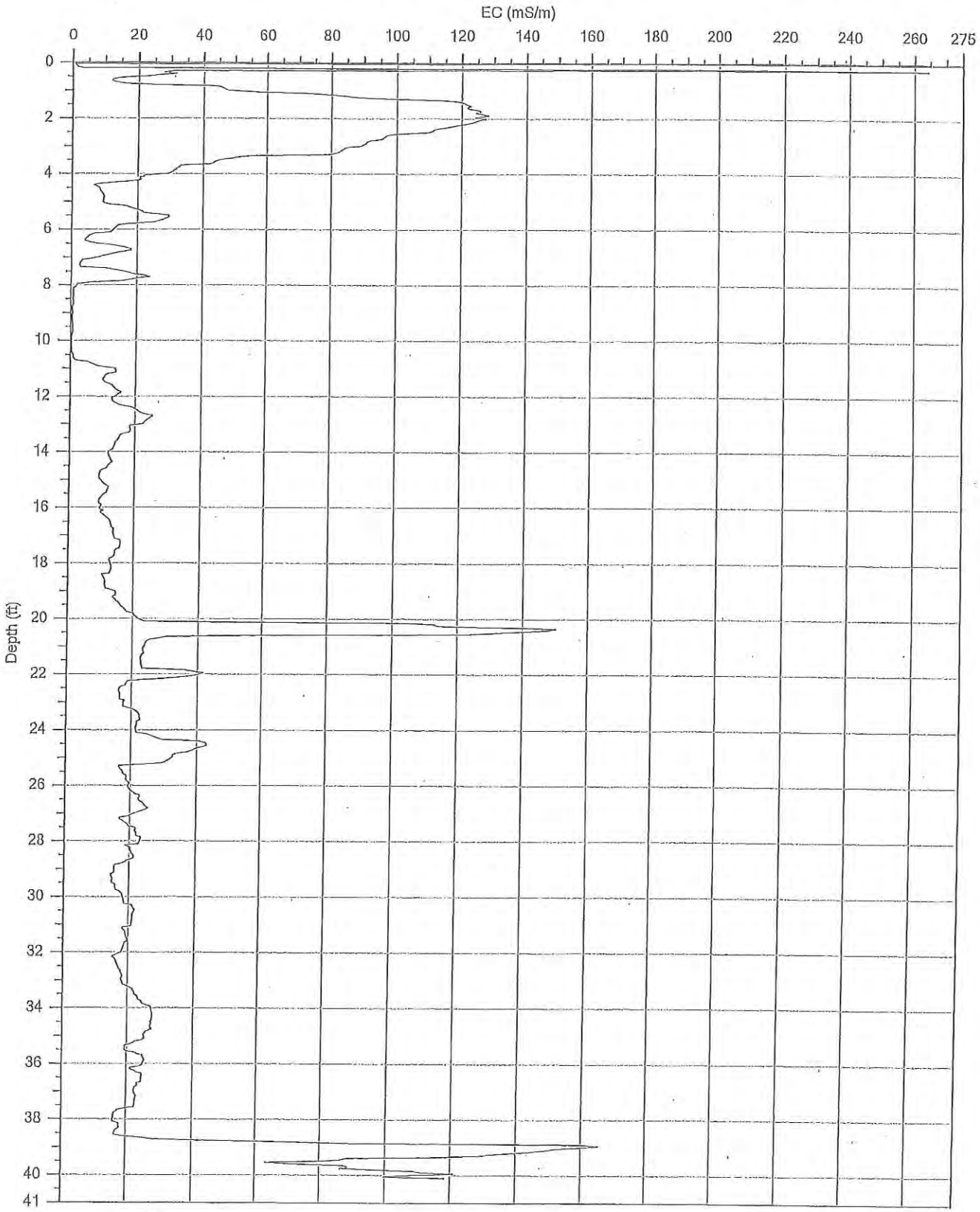
Depth to Water: 12.6

Sample ID	Time	Interval	Appearance/odor	Comments
DPT-GW-11C	1315	34-38	dark brown with sediment	
DPT-GW-11B	1325	23-27	brown with sediment	
DPT-GW-11A	1345	13-17	brown with sediment	

Comments:

Finish Time: 1355

Attachment D
EC Logs



Direct Image By Geoprobe Systems

Company: The Forrester Group	Operator: GSI	File: DPTEC1.DAT
Project ID: Off-Site Investigation	Client: Brenntag	Date:
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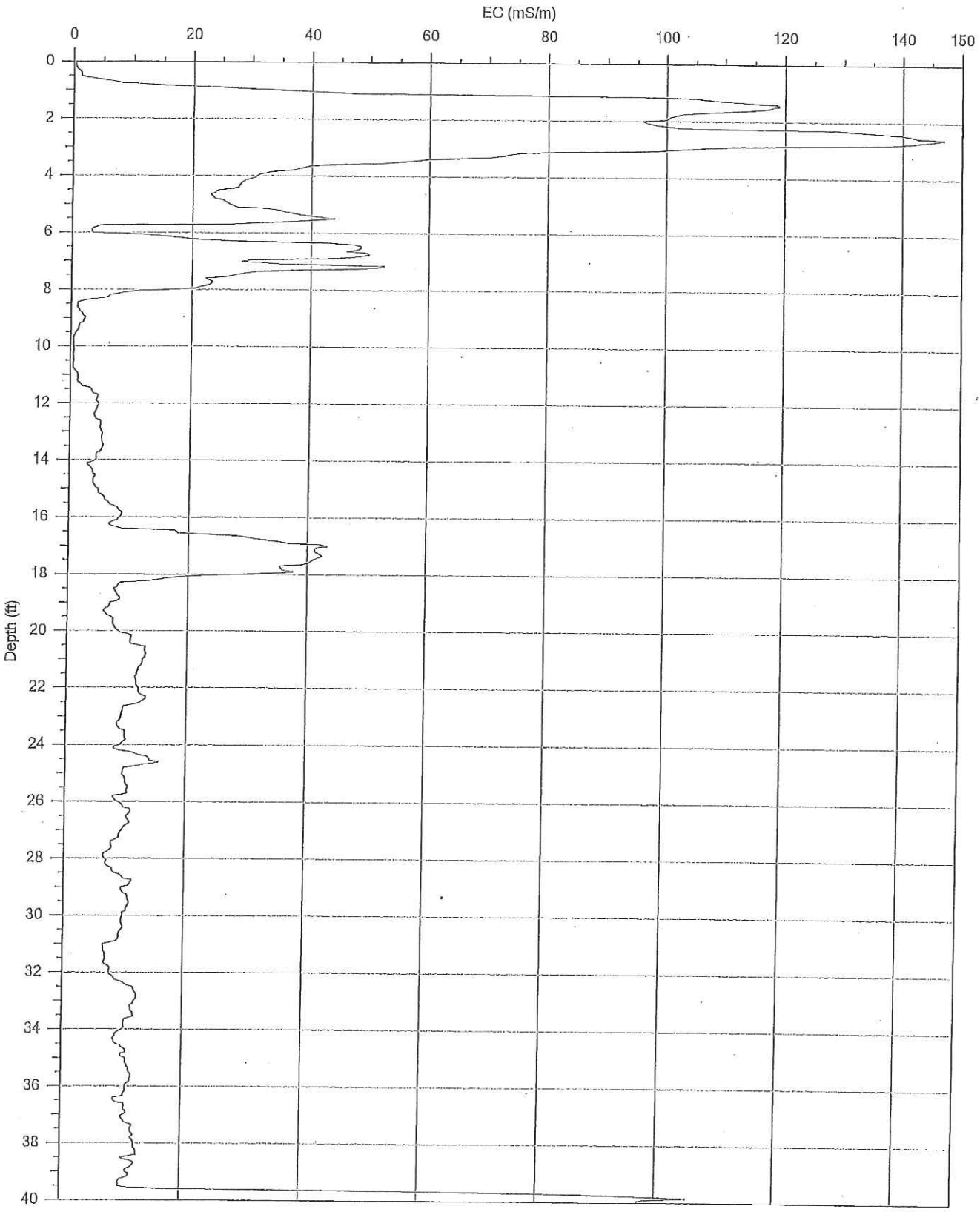

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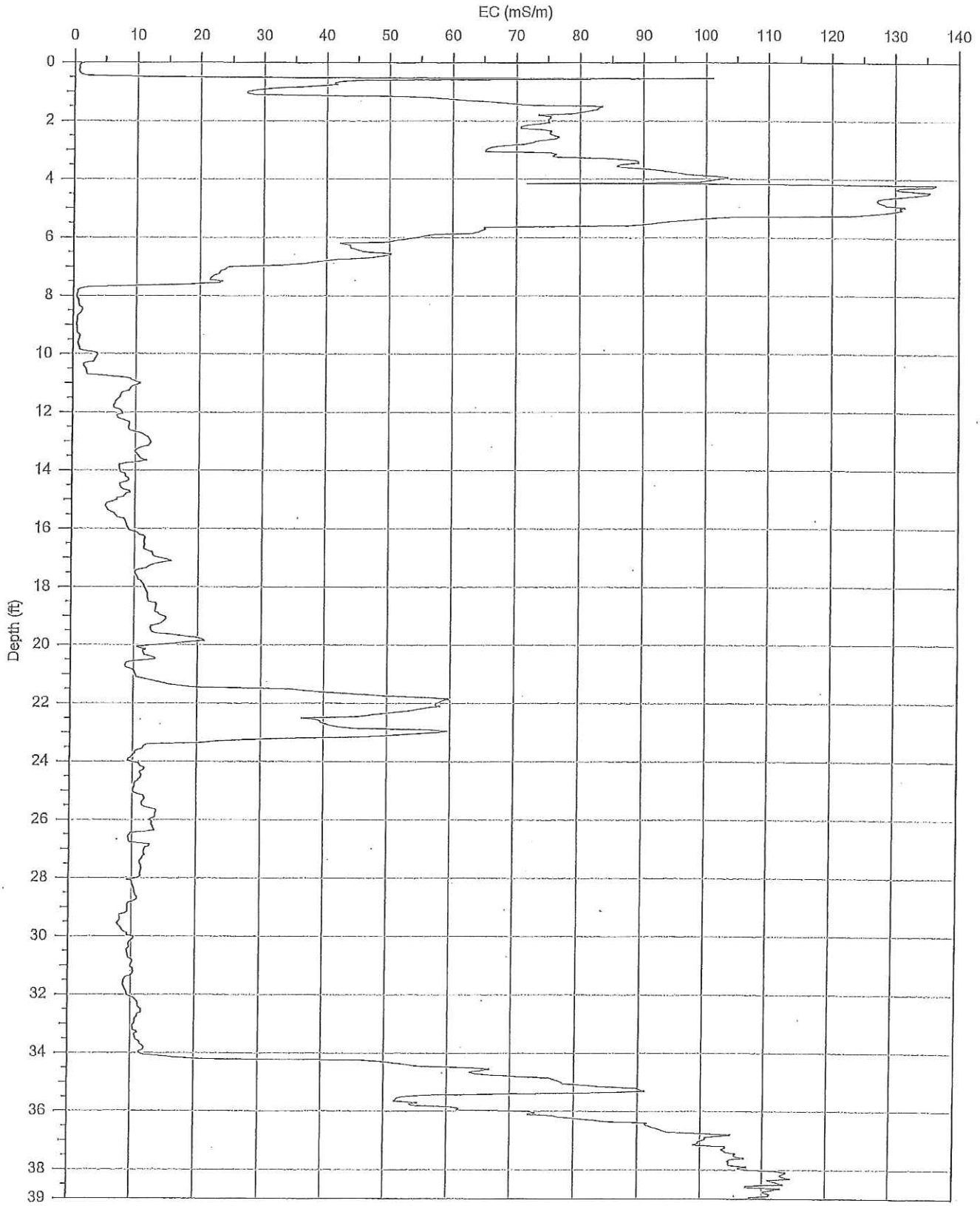
Project ID: Off-Site Investigation	Client: Brenntag	Date:
		Location:



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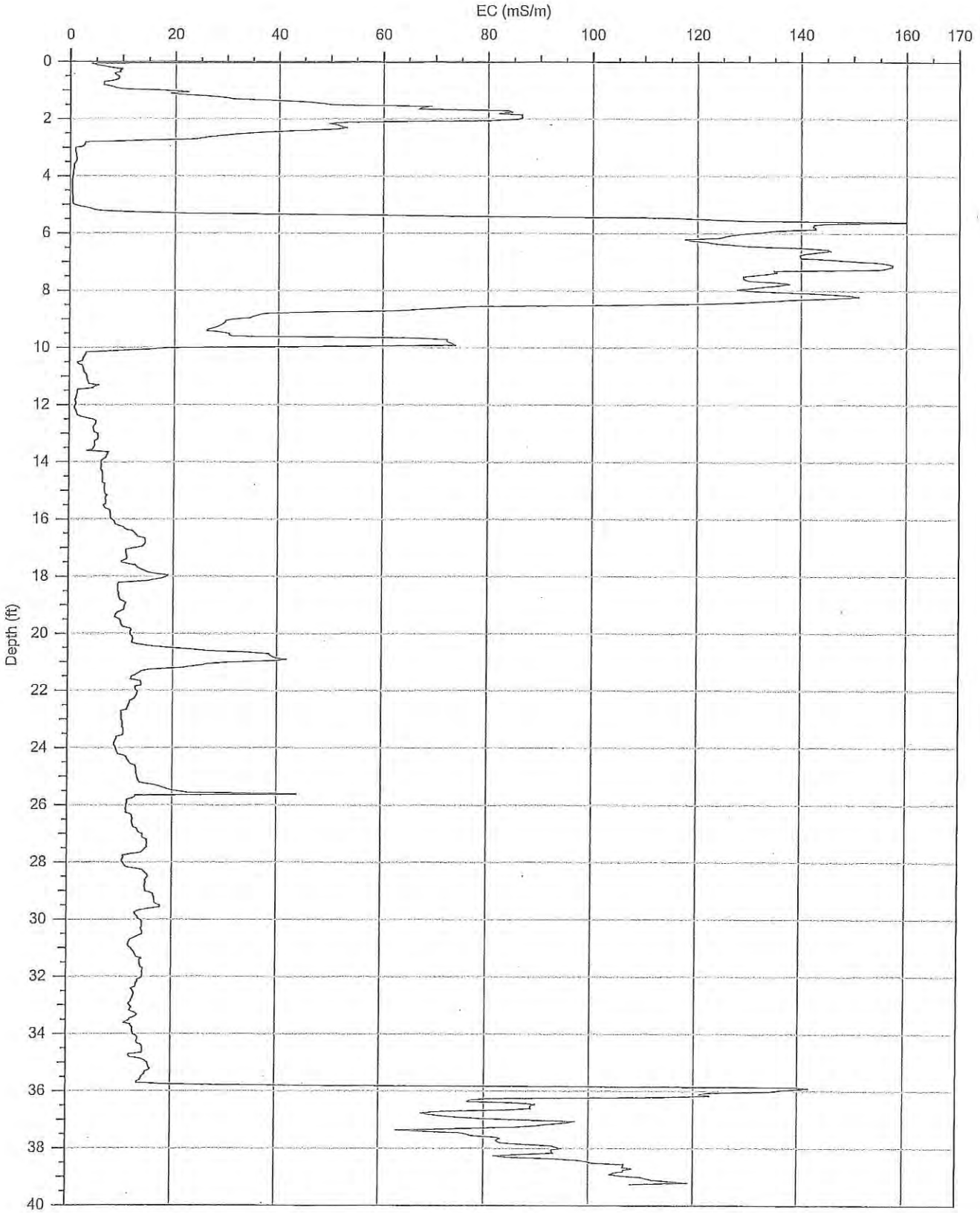

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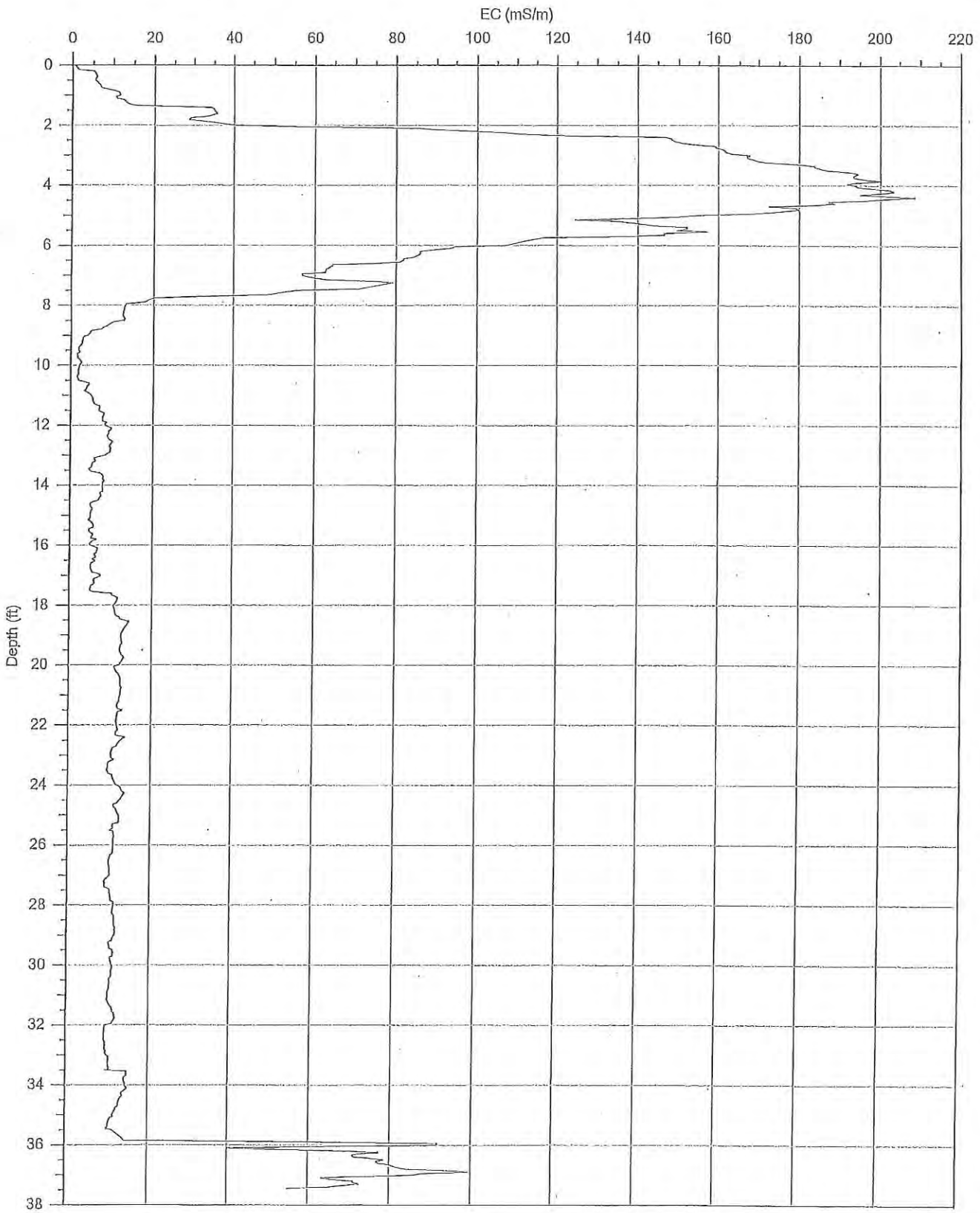

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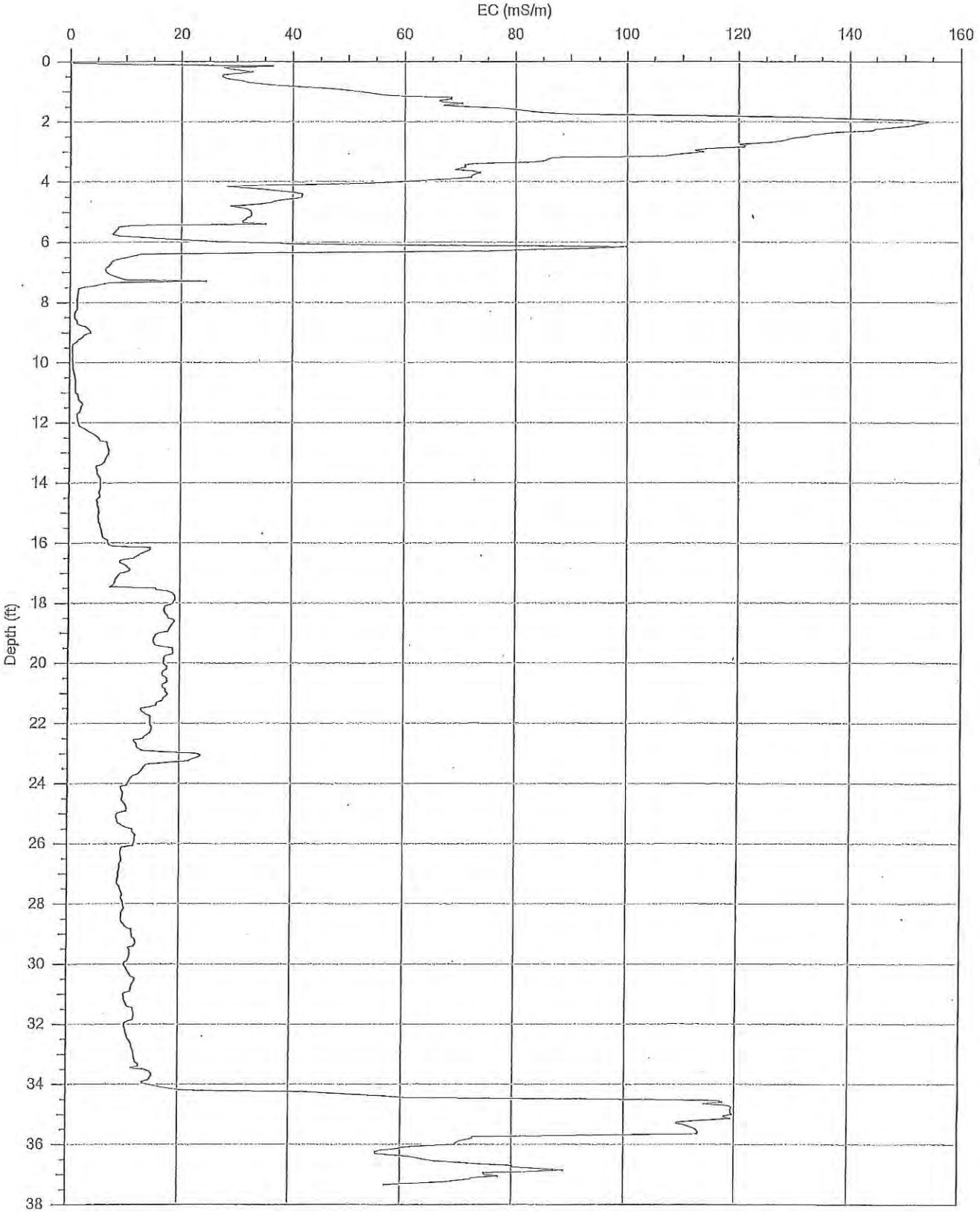
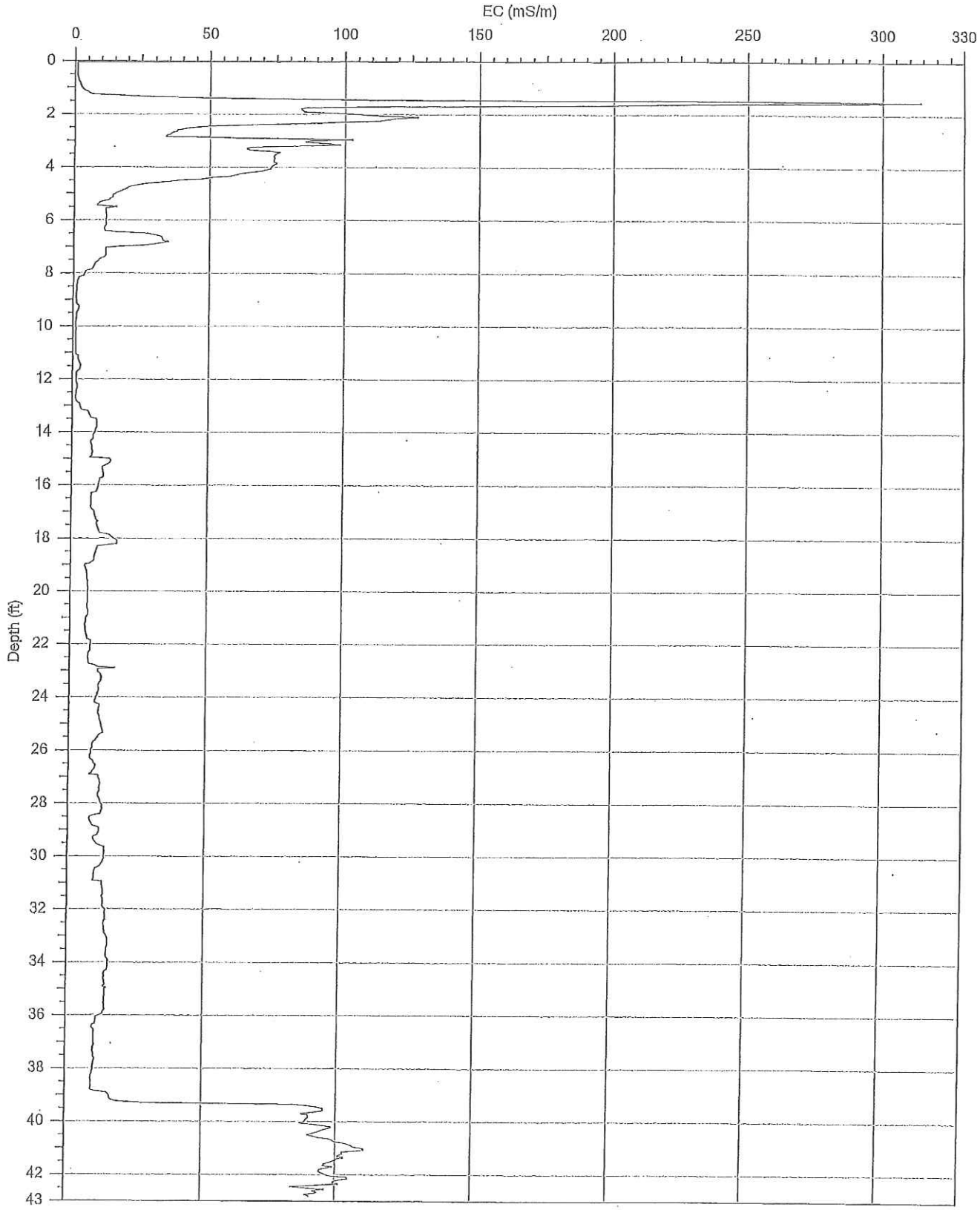
	Project ID: Off-Site Investigation	Client: Brenntag	Location:



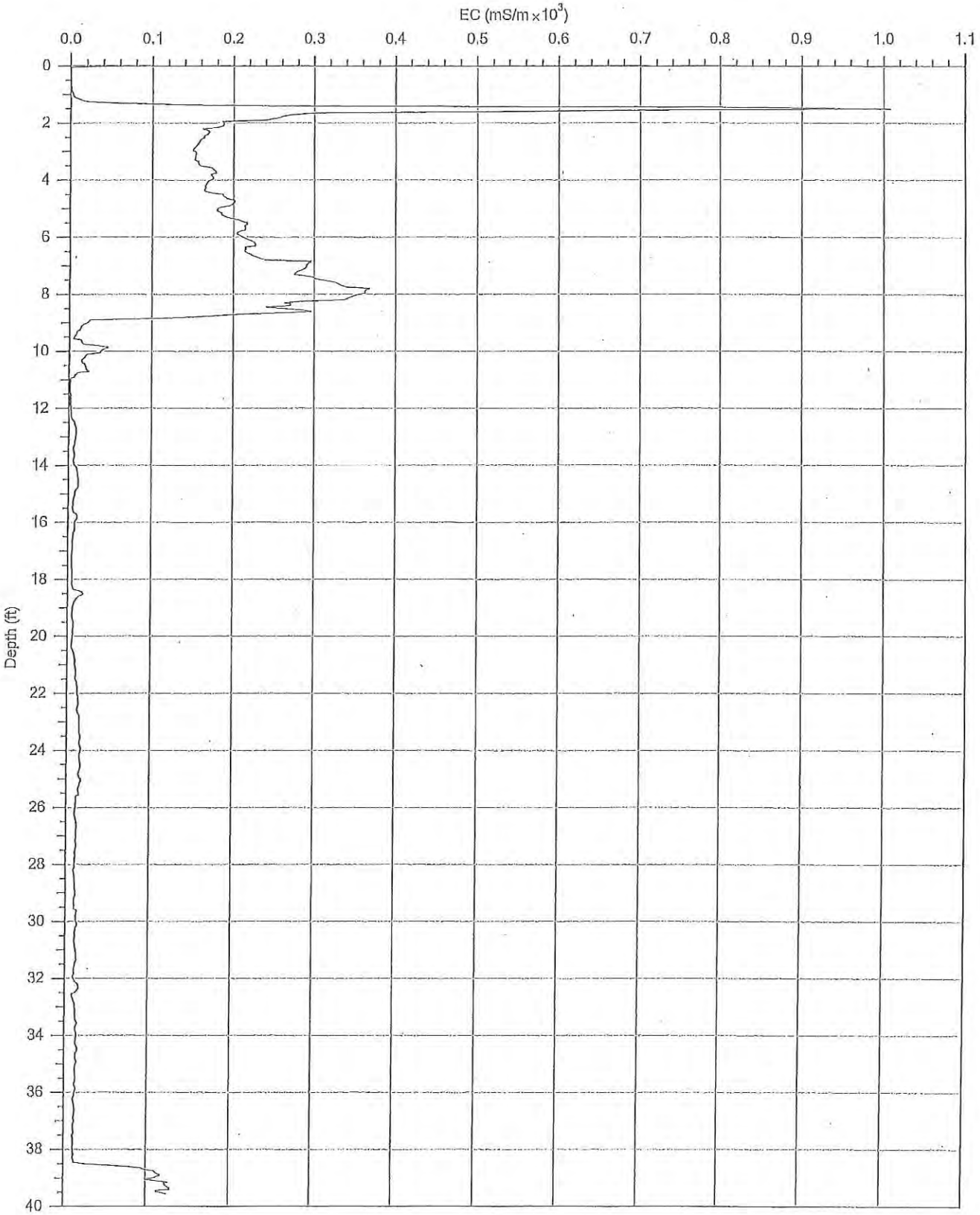
Direct Image By Geoprobe Systems

Company: The Forrester Group	Operator: GSI	File: DPTEC6.DAT
Project ID: Off-Site Investigation	Client: Brenntag	Date:
		Location:



Direct Image By Geoprobe Systems

Company: The Forrester Group	Operator: GSI	File: DPTEC7.DAT
Project ID: Off-Site Investigation	Client: Brenntag	Date:
		Location:



Direct Image By Geoprobe Systems

Company: The Forrester Group	Operator: GSI	File: DPTEC8.DAT
Project ID: Off-Site Investigation	Client: Brenntag	Date:
		Location:

Attachment E
Analytical Data

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

March 24, 2009

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: BRENNTAG
Pace Project No.: 6055450

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: BRENNTAG
Pace Project No.: 6055450

Kansas Certification IDs
Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX
Oklahoma Certification #: 9205/9935
Nevada Certification #: KS000212008A
Louisiana Certification #: 03055
Kansas/NELAP Certification #: E-10116
Iowa Certification #: 118
Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
A2LA Certification #: 2456.01

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6055450001	DPT-GW-11C	Water	03/10/09 13:15	03/11/09 20:30
6055450002	DPT-GW-11B	Water	03/10/09 13:25	03/11/09 20:30
6055450003	DPT-GW-11A	Water	03/10/09 13:45	03/11/09 20:30
6055450004	DPT-GW-10C	Water	03/10/09 14:25	03/11/09 20:30
6055450005	DPT-GW-10B	Water	03/10/09 14:30	03/11/09 20:30
6055450006	DPT-GW-10A	Water	03/10/09 14:40	03/11/09 20:30
6055450007	DPT-GW-9C	Water	03/10/09 15:35	03/11/09 20:30
6055450008	DPT-GW-9B	Water	03/10/09 15:45	03/11/09 20:30
6055450009	DPT-GW-DUP1B	Water	03/10/09 15:55	03/11/09 20:30
6055450010	DPT-GW-9A	Water	03/10/09 16:00	03/11/09 20:30
6055450011	DPT-GW-8C	Water	03/10/09 16:20	03/11/09 20:30
6055450012	DPT-GW-8B	Water	03/10/09 16:35	03/11/09 20:30
6055450013	DPT-GW-8A	Water	03/10/09 16:45	03/11/09 20:30
6055450014	DPT-GW-7C	Water	03/11/09 08:45	03/11/09 20:30
6055450015	DPT-GW-7B	Water	03/11/09 09:00	03/11/09 20:30
6055450016	DPT-GW-7A	Water	03/11/09 09:10	03/11/09 20:30
6055450017	DPT-GW-6C	Water	03/11/09 09:30	03/11/09 20:30
6055450018	DPT-GW-6B	Water	03/11/09 10:10	03/11/09 20:30
6055450019	DPT-GW-6A	Water	03/11/09 10:20	03/11/09 20:30
6055450020	DPT-GW-5C	Water	03/11/09 10:55	03/11/09 20:30
6055450021	DPT-GW-DUP2C	Water	03/11/09 11:05	03/11/09 20:30
6055450022	DPT-GW-5B	Water	03/11/09 11:10	03/11/09 20:30
6055450023	DPT-GW-5A	Water	03/11/09 11:25	03/11/09 20:30
6055450024	DPT-GW-4C	Water	03/11/09 11:45	03/11/09 20:30
6055450025	DPT-GW-4B	Water	03/11/09 12:00	03/11/09 20:30
6055450026	DPT-GW-4A	Water	03/11/09 12:05	03/11/09 20:30
6055450027	DPT-GW-EB1	Water	03/11/09 13:10	03/11/09 20:30
6055450028	DPT-GW-3C	Water	03/11/09 13:20	03/11/09 20:30
6055450029	DPT-GW-3B	Water	03/11/09 13:35	03/11/09 20:30
6055450030	DPT-GW-3A	Water	03/11/09 13:45	03/11/09 20:30
6055450031	DPT-GW-2C	Water	03/11/09 14:35	03/11/09 20:30
6055450032	DPT-GW-2B	Water	03/11/09 14:45	03/11/09 20:30
6055450033	DPT-GW-2A	Water	03/11/09 14:55	03/11/09 20:30
6055450034	DPT-GW-1C	Water	03/11/09 15:15	03/11/09 20:30
6055450035	DPT-GW-1B	Water	03/11/09 15:20	03/11/09 20:30
6055450036	DPT-GW-1A	Water	03/11/09 15:30	03/11/09 20:30
6055450037	DPT-GW-EB2	Water	03/11/09 15:45	03/11/09 20:30

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6055450038	TRIP BLANK	Water	03/11/09 00:00	03/11/09 20:30

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Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6055450001	DPT-GW-11C	EPA 5030B/8260	JTK	70
6055450002	DPT-GW-11B	EPA 5030B/8260	JTK	70
6055450003	DPT-GW-11A	EPA 5030B/8260	JTK	70
6055450004	DPT-GW-10C	EPA 5030B/8260	JTK	70
6055450005	DPT-GW-10B	EPA 5030B/8260	JTK	70
6055450006	DPT-GW-10A	EPA 5030B/8260	JTK	70
6055450007	DPT-GW-9C	EPA 5030B/8260	JTK	70
6055450008	DPT-GW-9B	EPA 5030B/8260	JTK	70
6055450009	DPT-GW-DUP1B	EPA 5030B/8260	JTK	70
6055450010	DPT-GW-9A	EPA 5030B/8260	JTK, NLM	70
6055450011	DPT-GW-8C	EPA 5030B/8260	JTK	70
6055450012	DPT-GW-8B	EPA 5030B/8260	JTK	70
6055450013	DPT-GW-8A	EPA 5030B/8260	JTK	70
6055450014	DPT-GW-7C	EPA 5030B/8260	JTK	70
6055450015	DPT-GW-7B	EPA 5030B/8260	JTK	70
6055450016	DPT-GW-7A	EPA 5030B/8260	JTK	70
6055450017	DPT-GW-6C	EPA 5030B/8260	JTK	70
6055450018	DPT-GW-6B	EPA 5030B/8260	JTK, NLM	70
6055450019	DPT-GW-6A	EPA 5030B/8260	JTK	70
6055450020	DPT-GW-5C	EPA 5030B/8260	JTK	70
6055450021	DPT-GW-DUP2C	EPA 5030B/8260	JTK	70
6055450022	DPT-GW-5B	EPA 5030B/8260	JTK	70
6055450023	DPT-GW-5A	EPA 5030B/8260	JTK	70
6055450024	DPT-GW-4C	EPA 5030B/8260	JTK	70
6055450025	DPT-GW-4B	EPA 5030B/8260	JTK	70
6055450026	DPT-GW-4A	EPA 5030B/8260	JTK	70
6055450027	DPT-GW-EB1	EPA 5030B/8260	JTK	70
6055450028	DPT-GW-3C	EPA 5030B/8260	JTK	70
6055450029	DPT-GW-3B	EPA 5030B/8260	JTK	70
6055450030	DPT-GW-3A	EPA 5030B/8260	JTK	70
6055450031	DPT-GW-2C	EPA 5030B/8260	JTK	70
6055450032	DPT-GW-2B	EPA 5030B/8260	JTK	70
6055450033	DPT-GW-2A	EPA 5030B/8260	JTK	70
6055450034	DPT-GW-1C	EPA 5030B/8260	PRG	69
6055450035	DPT-GW-1B	EPA 5030B/8260	JTK	70
6055450036	DPT-GW-1A	EPA 5030B/8260	JTK	70
6055450037	DPT-GW-EB2	EPA 5030B/8260	JTK	70

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SAMPLE ANALYTE COUNT

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6055450038	TRIP BLANK	EPA 5030B/8260	JTK	70

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-11C **Lab ID: 6055450001** Collected: 03/10/09 13:15 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/16/09 19:25	67-64-1	
Benzene	ND	ug/L	1.0	1		03/16/09 19:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/16/09 19:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/16/09 19:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/16/09 19:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/16/09 19:25	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/16/09 19:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/16/09 19:25	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/16/09 19:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/16/09 19:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/16/09 19:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/09 19:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/16/09 19:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/09 19:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/16/09 19:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/16/09 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/16/09 19:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/16/09 19:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/16/09 19:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/16/09 19:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/16/09 19:25	75-71-8	
1,1-Dichloroethane	**1.6**	ug/L	1.0	1		03/16/09 19:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/16/09 19:25	107-06-2	
1,2-Dichloroethene (Total)	**43.5**	ug/L	1.0	1		03/16/09 19:25	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/16/09 19:25	75-35-4	
cis-1,2-Dichloroethene	**42.8**	ug/L	1.0	1		03/16/09 19:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/16/09 19:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/16/09 19:25	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/16/09 19:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/16/09 19:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/16/09 19:25	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/16/09 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/16/09 19:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/16/09 19:25	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-11C **Lab ID: 6055450001** Collected: 03/10/09 13:15 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/16/09 19:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	103-65-1	
Styrene	ND	ug/L	1.0	1		03/16/09 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/09 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/09 19:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/16/09 19:25	127-18-4	
Toluene	ND	ug/L	1.0	1		03/16/09 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/16/09 19:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/16/09 19:25	79-00-5	
Trichloroethene	**3.8**	ug/L	1.0	1		03/16/09 19:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/09 19:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/16/09 19:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/16/09 19:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/09 19:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/16/09 19:25	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/16/09 19:25	460-00-4	
Dibromofluoromethane (S)	103	%	87-113	1		03/16/09 19:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	81-121	1		03/16/09 19:25	17060-07-0	
Toluene-d8 (S)	109	%	89-111	1		03/16/09 19:25	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/16/09 19:25		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-11B **Lab ID: 6055450002** Collected: 03/10/09 13:25 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/16/09 19:40	67-64-1	
Benzene	ND	ug/L	1.0	1		03/16/09 19:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/16/09 19:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/16/09 19:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/16/09 19:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/16/09 19:40	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/16/09 19:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/16/09 19:40	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/16/09 19:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/16/09 19:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/16/09 19:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/09 19:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/16/09 19:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/09 19:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/16/09 19:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/16/09 19:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/16/09 19:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/16/09 19:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/16/09 19:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/16/09 19:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/16/09 19:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/16/09 19:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/16/09 19:40	107-06-2	
1,2-Dichloroethene (Total)	**9.2**	ug/L	1.0	1		03/16/09 19:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/16/09 19:40	75-35-4	
cis-1,2-Dichloroethene	**9.0**	ug/L	1.0	1		03/16/09 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/16/09 19:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/16/09 19:40	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/16/09 19:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/16/09 19:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/16/09 19:40	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/16/09 19:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/16/09 19:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/16/09 19:40	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-11B **Lab ID: 6055450002** Collected: 03/10/09 13:25 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/16/09 19:40	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	103-65-1	
Styrene	ND	ug/L	1.0	1		03/16/09 19:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/09 19:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/09 19:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/16/09 19:40	127-18-4	
Toluene	ND	ug/L	1.0	1		03/16/09 19:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/16/09 19:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/16/09 19:40	79-00-5	
Trichloroethene	**2.7**	ug/L	1.0	1		03/16/09 19:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/09 19:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/16/09 19:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/16/09 19:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/09 19:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/16/09 19:40	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/16/09 19:40	460-00-4	
Dibromofluoromethane (S)	103	%	87-113	1		03/16/09 19:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	81-121	1		03/16/09 19:40	17060-07-0	
Toluene-d8 (S)	109	%	89-111	1		03/16/09 19:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/16/09 19:40		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-11A **Lab ID: 6055450003** Collected: 03/10/09 13:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/16/09 19:55	67-64-1	
Benzene	ND	ug/L	1.0	1		03/16/09 19:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/16/09 19:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/16/09 19:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/16/09 19:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/16/09 19:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/16/09 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/16/09 19:55	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/16/09 19:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/16/09 19:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/16/09 19:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/16/09 19:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/16/09 19:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/16/09 19:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/16/09 19:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/16/09 19:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/16/09 19:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/16/09 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/16/09 19:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/16/09 19:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/16/09 19:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/16/09 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/16/09 19:55	107-06-2	
1,2-Dichloroethene (Total)	8.5	ug/L	1.0	1		03/16/09 19:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/16/09 19:55	75-35-4	
cis-1,2-Dichloroethene	8.4	ug/L	1.0	1		03/16/09 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/16/09 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/16/09 19:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/16/09 19:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/16/09 19:55	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/16/09 19:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/16/09 19:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/16/09 19:55	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/16/09 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/16/09 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/16/09 19:55	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-11A **Lab ID: 6055450003** Collected: 03/10/09 13:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/16/09 19:55	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	103-65-1	
Styrene	ND	ug/L	1.0	1		03/16/09 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/09 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/16/09 19:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/16/09 19:55	127-18-4	
Toluene	ND	ug/L	1.0	1		03/16/09 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/16/09 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/16/09 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/16/09 19:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/16/09 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/16/09 19:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/16/09 19:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/16/09 19:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/16/09 19:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/16/09 19:55	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/16/09 19:55	460-00-4	
Dibromofluoromethane (S)	103	%	87-113	1		03/16/09 19:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	81-121	1		03/16/09 19:55	17060-07-0	
Toluene-d8 (S)	110	%	89-111	1		03/16/09 19:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/16/09 19:55		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-10C **Lab ID: 6055450004** Collected: 03/10/09 14:25 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 12:55	67-64-1	
Benzene	**2.4**	ug/L	1.0	1		03/17/09 12:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 12:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 12:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 12:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 12:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 12:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 12:55	78-93-3	
n-Butylbenzene	**18.1**	ug/L	1.0	1		03/17/09 12:55	104-51-8	
sec-Butylbenzene	**6.1**	ug/L	1.0	1		03/17/09 12:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 12:55	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 12:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 12:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 12:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 12:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 12:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 12:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 12:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 12:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 12:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 12:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 12:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 12:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 12:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 12:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 12:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 12:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 12:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 12:55	107-06-2	
1,2-Dichloroethene (Total)	**49.7**	ug/L	1.0	1		03/17/09 12:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 12:55	75-35-4	
cis-1,2-Dichloroethene	**49.0**	ug/L	1.0	1		03/17/09 12:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 12:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 12:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 12:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 12:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 12:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 12:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 12:55	10061-02-6	
Ethylbenzene	**17.1**	ug/L	1.0	1		03/17/09 12:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 12:55	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 12:55	591-78-6	
Isopropylbenzene (Cumene)	**18.0**	ug/L	1.0	1		03/17/09 12:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 12:55	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 12:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 12:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 12:55	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-10C **Lab ID: 6055450004** Collected: 03/10/09 14:25 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	**51.0**	ug/L	10.0	1		03/17/09 12:55	91-20-3	
n-Propylbenzene	**68.9**	ug/L	1.0	1		03/17/09 12:55	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 12:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 12:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 12:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 12:55	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 12:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 12:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 12:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 12:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 12:55	79-00-5	
Trichloroethene	**1.6**	ug/L	1.0	1		03/17/09 12:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 12:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 12:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 12:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 12:55	108-67-8	
Vinyl chloride	**1.1**	ug/L	1.0	1		03/17/09 12:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 12:55	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-115	1		03/17/09 12:55	460-00-4	
Dibromofluoromethane (S)	93	%	87-113	1		03/17/09 12:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	81-121	1		03/17/09 12:55	17060-07-0	
Toluene-d8 (S)	100	%	89-111	1		03/17/09 12:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 12:55		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-10B Lab ID: 6055450005 Collected: 03/10/09 14:30 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 13:10	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 13:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 13:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 13:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 13:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 13:10	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 13:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 13:10	78-93-3	
n-Butylbenzene	**4.8**	ug/L	1.0	1		03/17/09 13:10	104-51-8	
sec-Butylbenzene	**2.1**	ug/L	1.0	1		03/17/09 13:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 13:10	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 13:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 13:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 13:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 13:10	75-00-3	
Chloroform	**4.8**	ug/L	1.0	1		03/17/09 13:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 13:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 13:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 13:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 13:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 13:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 13:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 13:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 13:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 13:10	107-06-2	
1,2-Dichloroethene (Total)	**34.0**	ug/L	1.0	1		03/17/09 13:10	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 13:10	75-35-4	
cis-1,2-Dichloroethene	**34.0**	ug/L	1.0	1		03/17/09 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 13:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:10	10061-02-6	
Ethylbenzene	**4.8**	ug/L	1.0	1		03/17/09 13:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 13:10	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 13:10	591-78-6	
Isopropylbenzene (Cumene)	**6.2**	ug/L	1.0	1		03/17/09 13:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 13:10	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 13:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 13:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 13:10	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-10B **Lab ID: 6055450005** Collected: 03/10/09 14:30 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 13:10	91-20-3	
n-Propylbenzene	**21.7**	ug/L	1.0	1		03/17/09 13:10	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 13:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 13:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 13:10	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 13:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 13:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 13:10	79-00-5	
Trichloroethene	**3.5**	ug/L	1.0	1		03/17/09 13:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 13:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 13:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 13:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 13:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 13:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 13:10	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-115	1		03/17/09 13:10	460-00-4	
Dibromofluoromethane (S)	91	%	87-113	1		03/17/09 13:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	81-121	1		03/17/09 13:10	17060-07-0	
Toluene-d8 (S)	100	%	89-111	1		03/17/09 13:10	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 13:10		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-10A **Lab ID: 6055450006** Collected: 03/10/09 14:40 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	100	10		03/17/09 13:25	67-64-1	
Benzene	**532**	ug/L	10.0	10		03/17/09 13:25	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		03/17/09 13:25	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		03/17/09 13:25	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		03/17/09 13:25	75-27-4	
Bromoform	ND	ug/L	10.0	10		03/17/09 13:25	75-25-2	
Bromomethane	ND	ug/L	10.0	10		03/17/09 13:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	10		03/17/09 13:25	78-93-3	
n-Butylbenzene	**98.9**	ug/L	10.0	10		03/17/09 13:25	104-51-8	
sec-Butylbenzene	**35.4**	ug/L	10.0	10		03/17/09 13:25	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0	10		03/17/09 13:25	98-06-6	
Carbon disulfide	ND	ug/L	50.0	10		03/17/09 13:25	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		03/17/09 13:25	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		03/17/09 13:25	108-90-7	
Chloroethane	ND	ug/L	10.0	10		03/17/09 13:25	75-00-3	
Chloroform	ND	ug/L	10.0	10		03/17/09 13:25	67-66-3	
Chloromethane	ND	ug/L	10.0	10		03/17/09 13:25	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		03/17/09 13:25	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		03/17/09 13:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	10		03/17/09 13:25	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		03/17/09 13:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		03/17/09 13:25	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		03/17/09 13:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		03/17/09 13:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		03/17/09 13:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		03/17/09 13:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		03/17/09 13:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		03/17/09 13:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		03/17/09 13:25	107-06-2	
1,2-Dichloroethene (Total)	**13.3**	ug/L	10.0	10		03/17/09 13:25	540-59-0	
1,1-Dichloroethene	ND	ug/L	10.0	10		03/17/09 13:25	75-35-4	
cis-1,2-Dichloroethene	**13.3**	ug/L	10.0	10		03/17/09 13:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		03/17/09 13:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		03/17/09 13:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		03/17/09 13:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		03/17/09 13:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		03/17/09 13:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		03/17/09 13:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		03/17/09 13:25	10061-02-6	
Ethylbenzene	**147**	ug/L	10.0	10		03/17/09 13:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		03/17/09 13:25	87-68-3	
2-Hexanone	ND	ug/L	100	10		03/17/09 13:25	591-78-6	
Isopropylbenzene (Cumene)	**166**	ug/L	10.0	10		03/17/09 13:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0	10		03/17/09 13:25	99-87-6	
Methylene chloride	ND	ug/L	10.0	10		03/17/09 13:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		03/17/09 13:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		03/17/09 13:25	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-10A **Lab ID: 6055450006** Collected: 03/10/09 14:40 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	**753**	ug/L	100	10		03/17/09 13:25	91-20-3	
n-Propylbenzene	**609**	ug/L	10.0	10		03/17/09 13:25	103-65-1	
Styrene	ND	ug/L	10.0	10		03/17/09 13:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		03/17/09 13:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		03/17/09 13:25	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		03/17/09 13:25	127-18-4	
Toluene	**16.7**	ug/L	10.0	10		03/17/09 13:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		03/17/09 13:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		03/17/09 13:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		03/17/09 13:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		03/17/09 13:25	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		03/17/09 13:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		03/17/09 13:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	10		03/17/09 13:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	10.0	10		03/17/09 13:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	10.0	10		03/17/09 13:25	108-67-8	
Vinyl chloride	ND	ug/L	10.0	10		03/17/09 13:25	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		03/17/09 13:25	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	10		03/17/09 13:25	460-00-4	
Dibromofluoromethane (S)	90	%	87-113	10		03/17/09 13:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	81-121	10		03/17/09 13:25	17060-07-0	
Toluene-d8 (S)	100	%	89-111	10		03/17/09 13:25	2037-26-5	
Preservation pH	**1.0**		0.10	10		03/17/09 13:25		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-9C Lab ID: **6055450007** Collected: 03/10/09 15:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**14.5**	ug/L	10.0	1		03/17/09 13:41	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 13:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 13:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 13:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 13:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 13:41	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 13:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 13:41	78-93-3	
n-Butylbenzene	**7.8**	ug/L	1.0	1		03/17/09 13:41	104-51-8	
sec-Butylbenzene	**3.7**	ug/L	1.0	1		03/17/09 13:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 13:41	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 13:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 13:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 13:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 13:41	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		03/17/09 13:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 13:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 13:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 13:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 13:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 13:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 13:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 13:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 13:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 13:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 13:41	107-06-2	
1,2-Dichloroethene (Total)	**33.3**	ug/L	1.0	1		03/17/09 13:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 13:41	75-35-4	
cis-1,2-Dichloroethene	**32.7**	ug/L	1.0	1		03/17/09 13:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 13:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 13:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 13:41	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 13:41	591-78-6	
Isopropylbenzene (Cumene)	**2.1**	ug/L	1.0	1		03/17/09 13:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 13:41	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 13:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 13:41	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-9C **Lab ID: 6055450007** Collected: 03/10/09 15:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 13:41	91-20-3	
n-Propylbenzene	**16.5**	ug/L	1.0	1		03/17/09 13:41	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 13:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 13:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 13:41	79-34-5	
Tetrachloroethene	**1.4**	ug/L	1.0	1		03/17/09 13:41	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 13:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 13:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 13:41	79-00-5	
Trichloroethene	**13.5**	ug/L	1.0	1		03/17/09 13:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 13:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 13:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 13:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 13:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 13:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 13:41	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-115	1		03/17/09 13:41	460-00-4	
Dibromofluoromethane (S)	93	%	87-113	1		03/17/09 13:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	81-121	1		03/17/09 13:41	17060-07-0	
Toluene-d8 (S)	101	%	89-111	1		03/17/09 13:41	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 13:41		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-9B **Lab ID: 6055450008** Collected: 03/10/09 15:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 13:56	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 13:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 13:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 13:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 13:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 13:56	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 13:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 13:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 13:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 13:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 13:56	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 13:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 13:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 13:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 13:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 13:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 13:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 13:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 13:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 13:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 13:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 13:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 13:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 13:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 13:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 13:56	107-06-2	
1,2-Dichloroethene (Total)	**30.5**	ug/L	1.0	1		03/17/09 13:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 13:56	75-35-4	
cis-1,2-Dichloroethene	**29.9**	ug/L	1.0	1		03/17/09 13:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 13:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 13:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 13:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 13:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 13:56	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 13:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 13:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 13:56	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 13:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 13:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 13:56	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-9B **Lab ID: 6055450008** Collected: 03/10/09 15:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 13:56	91-20-3	
n-Propylbenzene	**1.8**	ug/L	1.0	1		03/17/09 13:56	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 13:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 13:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 13:56	79-34-5	
Tetrachloroethene	**1.9**	ug/L	1.0	1		03/17/09 13:56	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 13:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 13:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 13:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 13:56	79-00-5	
Trichloroethene	**8.6**	ug/L	1.0	1		03/17/09 13:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 13:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 13:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 13:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 13:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 13:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 13:56	1330-20-7	
4-Bromofluorobenzene (S)	103	%	87-115	1		03/17/09 13:56	460-00-4	
Dibromofluoromethane (S)	96	%	87-113	1		03/17/09 13:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	81-121	1		03/17/09 13:56	17060-07-0	
Toluene-d8 (S)	104	%	89-111	1		03/17/09 13:56	2037-26-5	
Preservation pH	1.0		0.10	1		03/17/09 13:56		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-DUP1B **Lab ID: 6055450009** Collected: 03/10/09 15:55 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 14:11	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 14:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 14:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 14:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 14:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 14:11	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 14:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 14:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:11	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 14:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 14:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 14:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 14:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 14:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 14:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 14:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 14:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 14:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 14:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 14:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 14:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 14:11	107-06-2	
1,2-Dichloroethene (Total)	**31.0**	ug/L	1.0	1		03/17/09 14:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 14:11	75-35-4	
cis-1,2-Dichloroethene	**30.4**	ug/L	1.0	1		03/17/09 14:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 14:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 14:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 14:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 14:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 14:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 14:11	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 14:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 14:11	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-DUP1B **Lab ID: 6055450009** Collected: 03/10/09 15:55 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 14:11	91-20-3	
n-Propylbenzene	**1.3**	ug/L	1.0	1		03/17/09 14:11	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 14:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:11	79-34-5	
Tetrachloroethene	**1.9**	ug/L	1.0	1		03/17/09 14:11	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 14:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:11	79-00-5	
Trichloroethene	**8.0**	ug/L	1.0	1		03/17/09 14:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 14:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 14:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 14:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 14:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 14:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 14:11	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-115	1		03/17/09 14:11	460-00-4	
Dibromofluoromethane (S)	99	%	87-113	1		03/17/09 14:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/17/09 14:11	17060-07-0	
Toluene-d8 (S)	105	%	89-111	1		03/17/09 14:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 14:11		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-9A **Lab ID: 6055450010** Collected: 03/10/09 16:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 14:26	67-64-1	
Benzene	**762**	ug/L	10.0	10		03/19/09 16:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 14:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 14:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 14:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 14:26	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 14:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 14:26	78-93-3	
n-Butylbenzene	**20.0**	ug/L	1.0	1		03/17/09 14:26	104-51-8	
sec-Butylbenzene	**10.6**	ug/L	1.0	1		03/17/09 14:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:26	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 14:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 14:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 14:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 14:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 14:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 14:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 14:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 14:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 14:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 14:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 14:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 14:26	107-06-2	
1,2-Dichloroethene (Total)	**7.1**	ug/L	1.0	1		03/17/09 14:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 14:26	75-35-4	
cis-1,2-Dichloroethene	**7.1**	ug/L	1.0	1		03/17/09 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:26	10061-02-6	
Ethylbenzene	**6.9**	ug/L	1.0	1		03/17/09 14:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 14:26	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 14:26	591-78-6	
Isopropylbenzene (Cumene)	**33.2**	ug/L	1.0	1		03/17/09 14:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 14:26	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 14:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 14:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 14:26	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-9A **Lab ID: 6055450010** Collected: 03/10/09 16:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 14:26	91-20-3	
n-Propylbenzene	**118**	ug/L	1.0	1		03/17/09 14:26	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 14:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 14:26	127-18-4	
Toluene	**15.0**	ug/L	1.0	1		03/17/09 14:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:26	79-00-5	
Trichloroethene	**3.7**	ug/L	1.0	1		03/17/09 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 14:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 14:26	96-18-4	
1,2,4-Trimethylbenzene	**1.1**	ug/L	1.0	1		03/17/09 14:26	95-63-6	
1,3,5-Trimethylbenzene	**1.4**	ug/L	1.0	1		03/17/09 14:26	108-67-8	
Vinyl chloride	**1.6**	ug/L	1.0	1		03/17/09 14:26	75-01-4	
Xylene (Total)	**16.3**	ug/L	3.0	1		03/17/09 14:26	1330-20-7	
4-Bromofluorobenzene (S)	104	%	87-115	1		03/17/09 14:26	460-00-4	
Dibromofluoromethane (S)	83	%	87-113	1		03/17/09 14:26	1868-53-7	S1
1,2-Dichloroethane-d4 (S)	88	%	81-121	1		03/17/09 14:26	17060-07-0	
Toluene-d8 (S)	97	%	89-111	1		03/17/09 14:26	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 14:26		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-8C **Lab ID: 6055450011** Collected: 03/10/09 16:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 14:41	67-64-1	
Benzene	**1.4**	ug/L	1.0	1		03/17/09 14:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 14:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 14:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 14:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 14:41	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 14:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 14:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 14:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 14:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 14:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 14:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 14:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 14:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 14:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 14:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 14:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 14:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 14:41	75-71-8	
1,1-Dichloroethane	**1.2**	ug/L	1.0	1		03/17/09 14:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 14:41	107-06-2	
1,2-Dichloroethene (Total)	**91.9**	ug/L	1.0	1		03/17/09 14:41	540-59-0	
1,1-Dichloroethene	**2.0**	ug/L	1.0	1		03/17/09 14:41	75-35-4	
cis-1,2-Dichloroethene	**89.3**	ug/L	1.0	1		03/17/09 14:41	156-59-2	
trans-1,2-Dichloroethene	**2.5**	ug/L	1.0	1		03/17/09 14:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 14:41	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 14:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 14:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 14:41	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 14:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 14:41	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-8C **Lab ID: 6055450011** Collected: 03/10/09 16:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 14:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:41	79-34-5	
Tetrachloroethene	**2.7**	ug/L	1.0	1		03/17/09 14:41	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 14:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:41	79-00-5	
Trichloroethene	**66.5**	ug/L	1.0	1		03/17/09 14:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 14:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 14:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 14:41	108-67-8	
Vinyl chloride	**2.2**	ug/L	1.0	1		03/17/09 14:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 14:41	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/17/09 14:41	460-00-4	
Dibromofluoromethane (S)	99	%	87-113	1		03/17/09 14:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/17/09 14:41	17060-07-0	
Toluene-d8 (S)	105	%	89-111	1		03/17/09 14:41	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 14:41		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-8B **Lab ID: 6055450012** Collected: 03/10/09 16:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 14:56	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 14:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 14:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 14:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 14:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 14:56	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 14:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 14:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 14:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 14:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 14:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 14:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 14:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 14:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 14:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 14:56	75-71-8	
1,1-Dichloroethane	**4.6**	ug/L	1.0	1		03/17/09 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 14:56	107-06-2	
1,2-Dichloroethene (Total)	**72.8**	ug/L	1.0	1		03/17/09 14:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 14:56	75-35-4	
cis-1,2-Dichloroethene	**71.8**	ug/L	1.0	1		03/17/09 14:56	156-59-2	
trans-1,2-Dichloroethene	**1.1**	ug/L	1.0	1		03/17/09 14:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 14:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 14:56	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 14:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 14:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 14:56	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 14:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 14:56	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-8B **Lab ID: 6055450012** Collected: 03/10/09 16:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 14:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 14:56	79-34-5	
Tetrachloroethene	**2.0**	ug/L	1.0	1		03/17/09 14:56	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 14:56	79-00-5	
Trichloroethene	**11.4**	ug/L	1.0	1		03/17/09 14:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 14:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 14:56	108-67-8	
Vinyl chloride	**13.5**	ug/L	1.0	1		03/17/09 14:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 14:56	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/17/09 14:56	460-00-4	
Dibromofluoromethane (S)	101	%	87-113	1		03/17/09 14:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	81-121	1		03/17/09 14:56	17060-07-0	
Toluene-d8 (S)	101	%	89-111	1		03/17/09 14:56	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 14:56		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-8A **Lab ID: 6055450013** Collected: 03/10/09 16:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 15:11	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 15:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 15:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 15:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 15:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 15:11	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 15:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 15:11	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 15:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 15:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 15:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 15:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 15:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 15:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 15:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 15:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 15:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 15:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 15:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 15:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 15:11	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		03/17/09 15:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 15:11	107-06-2	
1,2-Dichloroethene (Total)	**43.4**	ug/L	1.0	1		03/17/09 15:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 15:11	75-35-4	
cis-1,2-Dichloroethene	**42.3**	ug/L	1.0	1		03/17/09 15:11	156-59-2	
trans-1,2-Dichloroethene	**1.1**	ug/L	1.0	1		03/17/09 15:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 15:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 15:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 15:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 15:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 15:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 15:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 15:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 15:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 15:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 15:11	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 15:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 15:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 15:11	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-8A **Lab ID: 6055450013** Collected: 03/10/09 16:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 15:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 15:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 15:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 15:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 15:11	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 15:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 15:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 15:11	79-00-5	
Trichloroethene	**20.2**	ug/L	1.0	1		03/17/09 15:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 15:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 15:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 15:11	108-67-8	
Vinyl chloride	**2.6**	ug/L	1.0	1		03/17/09 15:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 15:11	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/17/09 15:11	460-00-4	
Dibromofluoromethane (S)	99	%	87-113	1		03/17/09 15:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	81-121	1		03/17/09 15:11	17060-07-0	
Toluene-d8 (S)	103	%	89-111	1		03/17/09 15:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 15:11		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-7C **Lab ID: 6055450014** Collected: 03/11/09 08:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 15:26	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 15:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 15:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 15:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 15:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 15:26	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 15:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 15:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 15:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 15:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 15:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 15:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 15:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 15:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 15:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 15:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 15:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 15:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 15:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 15:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 15:26	75-71-8	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		03/17/09 15:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 15:26	107-06-2	
1,2-Dichloroethene (Total)	**83.1**	ug/L	1.0	1		03/17/09 15:26	540-59-0	
1,1-Dichloroethene	**2.0**	ug/L	1.0	1		03/17/09 15:26	75-35-4	
cis-1,2-Dichloroethene	**81.1**	ug/L	1.0	1		03/17/09 15:26	156-59-2	
trans-1,2-Dichloroethene	**2.0**	ug/L	1.0	1		03/17/09 15:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 15:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 15:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 15:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 15:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 15:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 15:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 15:26	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 15:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 15:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 15:26	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 15:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 15:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 15:26	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-7C **Lab ID: 6055450014** Collected: 03/11/09 08:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 15:26	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 15:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 15:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 15:26	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	1		03/17/09 15:26	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 15:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 15:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 15:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 15:26	79-00-5	
Trichloroethene	**34.4**	ug/L	1.0	1		03/17/09 15:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 15:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 15:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 15:26	108-67-8	
Vinyl chloride	**1.9**	ug/L	1.0	1		03/17/09 15:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 15:26	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/17/09 15:26	460-00-4	
Dibromofluoromethane (S)	103	%	87-113	1		03/17/09 15:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	81-121	1		03/17/09 15:26	17060-07-0	
Toluene-d8 (S)	99	%	89-111	1		03/17/09 15:26	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 15:26		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-7B **Lab ID: 6055450015** Collected: 03/11/09 09:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 16:42	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 16:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 16:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 16:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 16:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 16:42	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 16:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 16:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 16:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 16:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 16:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 16:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 16:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 16:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 16:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 16:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 16:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 16:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 16:42	75-71-8	
1,1-Dichloroethane	**1.2**	ug/L	1.0	1		03/17/09 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 16:42	107-06-2	
1,2-Dichloroethene (Total)	**54.5**	ug/L	1.0	1		03/17/09 16:42	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 16:42	75-35-4	
cis-1,2-Dichloroethene	**53.9**	ug/L	1.0	1		03/17/09 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 16:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 16:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 16:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 16:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 16:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 16:42	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 16:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 16:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 16:42	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 16:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 16:42	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-7B **Lab ID: 6055450015** Collected: 03/11/09 09:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 16:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 16:42	79-34-5	
Tetrachloroethene	**4.9**	ug/L	1.0	1		03/17/09 16:42	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 16:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 16:42	79-00-5	
Trichloroethene	**5.1**	ug/L	1.0	1		03/17/09 16:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 16:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 16:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 16:42	108-67-8	
Vinyl chloride	**4.1**	ug/L	1.0	1		03/17/09 16:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 16:42	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/17/09 16:42	460-00-4	
Dibromofluoromethane (S)	100	%	87-113	1		03/17/09 16:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/17/09 16:42	17060-07-0	
Toluene-d8 (S)	103	%	89-111	1		03/17/09 16:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 16:42		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-7A **Lab ID: 6055450016** Collected: 03/11/09 09:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 16:57	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 16:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 16:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 16:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 16:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 16:57	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 16:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 16:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 16:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 16:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 16:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 16:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 16:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 16:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 16:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 16:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 16:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 16:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 16:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 16:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 16:57	75-71-8	
1,1-Dichloroethane	**1.0**	ug/L	1.0	1		03/17/09 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 16:57	107-06-2	
1,2-Dichloroethene (Total)	**41.8**	ug/L	1.0	1		03/17/09 16:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 16:57	75-35-4	
cis-1,2-Dichloroethene	**41.0**	ug/L	1.0	1		03/17/09 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 16:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 16:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 16:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 16:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 16:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 16:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 16:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 16:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 16:57	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 16:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 16:57	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-7A **Lab ID: 6055450016** Collected: 03/11/09 09:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 16:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 16:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 16:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 16:57	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 16:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 16:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 16:57	79-00-5	
Trichloroethene	**10.2**	ug/L	1.0	1		03/17/09 16:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 16:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 16:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 16:57	108-67-8	
Vinyl chloride	**7.3**	ug/L	1.0	1		03/17/09 16:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 16:57	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-115	1		03/17/09 16:57	460-00-4	
Dibromofluoromethane (S)	97	%	87-113	1		03/17/09 16:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/17/09 16:57	17060-07-0	
Toluene-d8 (S)	104	%	89-111	1		03/17/09 16:57	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 16:57		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-6C **Lab ID: 6055450017** Collected: 03/11/09 09:30 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 17:12	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 17:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 17:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 17:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 17:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 17:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 17:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 17:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 17:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 17:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 17:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 17:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 17:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 17:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 17:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 17:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 17:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 17:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 17:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:12	107-06-2	
1,2-Dichloroethene (Total)	**69.6**	ug/L	1.0	1		03/17/09 17:12	540-59-0	
1,1-Dichloroethene	**1.3**	ug/L	1.0	1		03/17/09 17:12	75-35-4	
cis-1,2-Dichloroethene	**68.2**	ug/L	1.0	1		03/17/09 17:12	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		03/17/09 17:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 17:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 17:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 17:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 17:12	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 17:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 17:12	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-6C **Lab ID: 6055450017** Collected: 03/11/09 09:30 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 17:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 17:12	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 17:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:12	79-00-5	
Trichloroethene	**15.4**	ug/L	1.0	1		03/17/09 17:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 17:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 17:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:12	108-67-8	
Vinyl chloride	**2.0**	ug/L	1.0	1		03/17/09 17:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 17:12	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/17/09 17:12	460-00-4	
Dibromofluoromethane (S)	100	%	87-113	1		03/17/09 17:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-121	1		03/17/09 17:12	17060-07-0	
Toluene-d8 (S)	104	%	89-111	1		03/17/09 17:12	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 17:12		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-6B **Lab ID: 6055450018** Collected: 03/11/09 10:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 17:27	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 17:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 17:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 17:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 17:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 17:27	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 17:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 17:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 17:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 17:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 17:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 17:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 17:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 17:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 17:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 17:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 17:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 17:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 17:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:27	107-06-2	
1,2-Dichloroethene (Total)	**31.2**	ug/L	1.0	1		03/17/09 17:27	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 17:27	75-35-4	
cis-1,2-Dichloroethene	**30.7**	ug/L	1.0	1		03/17/09 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 17:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 17:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 17:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 17:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 17:27	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 17:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 17:27	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-6B **Lab ID: 6055450018** Collected: 03/11/09 10:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 17:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 17:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:27	79-34-5	
Tetrachloroethene	**156**	ug/L	10.0	10		03/19/09 17:07	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 17:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:27	79-00-5	
Trichloroethene	**20.0**	ug/L	1.0	1		03/17/09 17:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 17:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 17:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 17:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 17:27	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/17/09 17:27	460-00-4	
Dibromofluoromethane (S)	97	%	87-113	1		03/17/09 17:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-121	1		03/17/09 17:27	17060-07-0	
Toluene-d8 (S)	105	%	89-111	1		03/17/09 17:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 17:27		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-6A **Lab ID: 6055450019** Collected: 03/11/09 10:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 17:42	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 17:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 17:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 17:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 17:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 17:42	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 17:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 17:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 17:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 17:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 17:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 17:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 17:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 17:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 17:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 17:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 17:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 17:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 17:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:42	107-06-2	
1,2-Dichloroethene (Total)	**9.2**	ug/L	1.0	1		03/17/09 17:42	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 17:42	75-35-4	
cis-1,2-Dichloroethene	**9.1**	ug/L	1.0	1		03/17/09 17:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 17:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 17:42	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 17:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 17:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 17:42	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 17:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 17:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 17:42	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-6A **Lab ID: 6055450019** Collected: 03/11/09 10:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 17:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 17:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:42	79-34-5	
Tetrachloroethene	**11.1**	ug/L	1.0	1		03/17/09 17:42	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 17:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:42	79-00-5	
Trichloroethene	**3.1**	ug/L	1.0	1		03/17/09 17:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 17:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 17:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 17:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 17:42	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/17/09 17:42	460-00-4	
Dibromofluoromethane (S)	99	%	87-113	1		03/17/09 17:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/17/09 17:42	17060-07-0	
Toluene-d8 (S)	105	%	89-111	1		03/17/09 17:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 17:42		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-5C **Lab ID: 6055450020** Collected: 03/11/09 10:55 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 17:57	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 17:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 17:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 17:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 17:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 17:57	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 17:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 17:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 17:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 17:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 17:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 17:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 17:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 17:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 17:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 17:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 17:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 17:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 17:57	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		03/17/09 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 17:57	107-06-2	
1,2-Dichloroethene (Total)	**120**	ug/L	1.0	1		03/17/09 17:57	540-59-0	
1,1-Dichloroethene	**3.0**	ug/L	1.0	1		03/17/09 17:57	75-35-4	
cis-1,2-Dichloroethene	**118**	ug/L	1.0	1		03/17/09 17:57	156-59-2	
trans-1,2-Dichloroethene	**2.1**	ug/L	1.0	1		03/17/09 17:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 17:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 17:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 17:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 17:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 17:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 17:57	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 17:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 17:57	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-5C **Lab ID: 6055450020** Collected: 03/11/09 10:55 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 17:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 17:57	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	1		03/17/09 17:57	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 17:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 17:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 17:57	79-00-5	
Trichloroethene	**25.5**	ug/L	1.0	1		03/17/09 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 17:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 17:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 17:57	108-67-8	
Vinyl chloride	**3.5**	ug/L	1.0	1		03/17/09 17:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 17:57	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/17/09 17:57	460-00-4	
Dibromofluoromethane (S)	105	%	87-113	1		03/17/09 17:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/17/09 17:57	17060-07-0	
Toluene-d8 (S)	105	%	89-111	1		03/17/09 17:57	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 17:57		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-DUP2C **Lab ID: 6055450021** Collected: 03/11/09 11:05 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 18:12	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 18:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 18:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 18:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 18:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 18:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 18:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 18:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 18:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 18:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 18:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 18:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 18:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 18:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 18:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 18:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 18:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 18:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 18:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 18:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 18:12	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		03/17/09 18:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 18:12	107-06-2	
1,2-Dichloroethene (Total)	**127**	ug/L	1.0	1		03/17/09 18:12	540-59-0	
1,1-Dichloroethene	**3.2**	ug/L	1.0	1		03/17/09 18:12	75-35-4	
cis-1,2-Dichloroethene	**125**	ug/L	1.0	1		03/17/09 18:12	156-59-2	
trans-1,2-Dichloroethene	**2.3**	ug/L	1.0	1		03/17/09 18:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 18:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 18:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 18:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 18:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 18:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 18:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 18:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 18:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 18:12	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 18:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 18:12	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-DUP2C **Lab ID: 6055450021** Collected: 03/11/09 11:05 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 18:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 18:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 18:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 18:12	79-34-5	
Tetrachloroethene	**1.0**	ug/L	1.0	1		03/17/09 18:12	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 18:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 18:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 18:12	79-00-5	
Trichloroethene	**28.5**	ug/L	1.0	1		03/17/09 18:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 18:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 18:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 18:12	108-67-8	
Vinyl chloride	**4.0**	ug/L	1.0	1		03/17/09 18:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 18:12	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/17/09 18:12	460-00-4	
Dibromofluoromethane (S)	103	%	87-113	1		03/17/09 18:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/17/09 18:12	17060-07-0	
Toluene-d8 (S)	103	%	89-111	1		03/17/09 18:12	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 18:12		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-5B **Lab ID: 6055450022** Collected: 03/11/09 11:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 18:27	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 18:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 18:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 18:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 18:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 18:27	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 18:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 18:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 18:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 18:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 18:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 18:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 18:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 18:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 18:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 18:27	107-06-2	
1,2-Dichloroethene (Total)	47.9	ug/L	1.0	1		03/17/09 18:27	540-59-0	
1,1-Dichloroethene	1.5	ug/L	1.0	1		03/17/09 18:27	75-35-4	
cis-1,2-Dichloroethene	46.7	ug/L	1.0	1		03/17/09 18:27	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	1		03/17/09 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 18:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 18:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 18:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 18:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 18:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 18:27	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 18:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 18:27	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-5B **Lab ID: 6055450022** Collected: 03/11/09 11:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 18:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 18:27	79-34-5	
Tetrachloroethene	**6.3**	ug/L	1.0	1		03/17/09 18:27	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 18:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 18:27	79-00-5	
Trichloroethene	**44.8**	ug/L	1.0	1		03/17/09 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 18:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 18:27	108-67-8	
Vinyl chloride	**1.4**	ug/L	1.0	1		03/17/09 18:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 18:27	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/17/09 18:27	460-00-4	
Dibromofluoromethane (S)	102	%	87-113	1		03/17/09 18:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/17/09 18:27	17060-07-0	
Toluene-d8 (S)	106	%	89-111	1		03/17/09 18:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 18:27		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-5A **Lab ID: 6055450023** Collected: 03/11/09 11:25 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 19:12	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 19:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 19:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 19:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 19:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 19:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 19:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 19:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 19:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 19:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 19:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 19:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 19:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 19:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 19:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 19:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 19:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:12	107-06-2	
1,2-Dichloroethene (Total)	55.4	ug/L	1.0	1		03/17/09 19:12	540-59-0	
1,1-Dichloroethene	1.2	ug/L	1.0	1		03/17/09 19:12	75-35-4	
cis-1,2-Dichloroethene	54.5	ug/L	1.0	1		03/17/09 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 19:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 19:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 19:12	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 19:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 19:12	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-5A **Lab ID: 6055450023** Collected: 03/11/09 11:25 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 19:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:12	79-34-5	
Tetrachloroethene	**39.8**	ug/L	1.0	1		03/17/09 19:12	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:12	79-00-5	
Trichloroethene	**16.7**	ug/L	1.0	1		03/17/09 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 19:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:12	108-67-8	
Vinyl chloride	1.4	ug/L	1.0	1		03/17/09 19:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 19:12	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-115	1		03/17/09 19:12	460-00-4	
Dibromofluoromethane (S)	103	%	87-113	1		03/17/09 19:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-121	1		03/17/09 19:12	17060-07-0	
Toluene-d8 (S)	107	%	89-111	1		03/17/09 19:12	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 19:12		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-4C **Lab ID: 6055450024** Collected: 03/11/09 11:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 19:27	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 19:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 19:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 19:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 19:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 19:27	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 19:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 19:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 19:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 19:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 19:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 19:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 19:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 19:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 19:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 19:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 19:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 19:27	75-71-8	
1,1-Dichloroethane	**1.2**	ug/L	1.0	1		03/17/09 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:27	107-06-2	
1,2-Dichloroethene (Total)	**109**	ug/L	1.0	1		03/17/09 19:27	540-59-0	
1,1-Dichloroethene	**2.7**	ug/L	1.0	1		03/17/09 19:27	75-35-4	
cis-1,2-Dichloroethene	**108**	ug/L	1.0	1		03/17/09 19:27	156-59-2	
trans-1,2-Dichloroethene	**1.5**	ug/L	1.0	1		03/17/09 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 19:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 19:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 19:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 19:27	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 19:27	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-4C **Lab ID: 6055450024** Collected: 03/11/09 11:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 19:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 19:27	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 19:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:27	79-00-5	
Trichloroethene	**20.5**	ug/L	1.0	1		03/17/09 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 19:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 19:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:27	108-67-8	
Vinyl chloride	**3.3**	ug/L	1.0	1		03/17/09 19:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 19:27	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/17/09 19:27	460-00-4	
Dibromofluoromethane (S)	105	%	87-113	1		03/17/09 19:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/17/09 19:27	17060-07-0	
Toluene-d8 (S)	110	%	89-111	1		03/17/09 19:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 19:27		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-4B **Lab ID: 6055450025** Collected: 03/11/09 12:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 19:42	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 19:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 19:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 19:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 19:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 19:42	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 19:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 19:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 19:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 19:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 19:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 19:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 19:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 19:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 19:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 19:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 19:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 19:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 19:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:42	107-06-2	
1,2-Dichloroethene (Total)	**50.9**	ug/L	1.0	1		03/17/09 19:42	540-59-0	
1,1-Dichloroethene	**1.6**	ug/L	1.0	1		03/17/09 19:42	75-35-4	
cis-1,2-Dichloroethene	**49.7**	ug/L	1.0	1		03/17/09 19:42	156-59-2	
trans-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		03/17/09 19:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 19:42	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 19:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 19:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 19:42	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 19:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 19:42	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-4B **Lab ID: 6055450025** Collected: 03/11/09 12:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 19:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:42	79-34-5	
Tetrachloroethene	**2.8**	ug/L	1.0	1		03/17/09 19:42	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 19:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:42	79-00-5	
Trichloroethene	**44.8**	ug/L	1.0	1		03/17/09 19:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 19:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 19:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:42	108-67-8	
Vinyl chloride	**1.8**	ug/L	1.0	1		03/17/09 19:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 19:42	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/17/09 19:42	460-00-4	
Dibromofluoromethane (S)	105	%	87-113	1		03/17/09 19:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-121	1		03/17/09 19:42	17060-07-0	
Toluene-d8 (S)	109	%	89-111	1		03/17/09 19:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 19:42		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-4A **Lab ID: 6055450026** Collected: 03/11/09 12:05 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 19:57	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 19:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 19:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 19:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 19:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 19:57	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 19:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 19:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 19:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 19:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 19:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 19:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 19:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 19:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 19:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 19:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 19:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 19:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 19:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 19:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 19:57	107-06-2	
1,2-Dichloroethene (Total)	**21.5**	ug/L	1.0	1		03/17/09 19:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 19:57	75-35-4	
cis-1,2-Dichloroethene	**21.1**	ug/L	1.0	1		03/17/09 19:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 19:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 19:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 19:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 19:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 19:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 19:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 19:57	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 19:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 19:57	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-4A **Lab ID: 6055450026** Collected: 03/11/09 12:05 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 19:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 19:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 19:57	79-34-5	
Tetrachloroethene	**1.6**	ug/L	1.0	1		03/17/09 19:57	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 19:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 19:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 19:57	79-00-5	
Trichloroethene	**5.4**	ug/L	1.0	1		03/17/09 19:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 19:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 19:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 19:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 19:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 19:57	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/17/09 19:57	460-00-4	
Dibromofluoromethane (S)	104	%	87-113	1		03/17/09 19:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	81-121	1		03/17/09 19:57	17060-07-0	
Toluene-d8 (S)	106	%	89-111	1		03/17/09 19:57	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 19:57		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-EB1 **Lab ID: 6055450027** Collected: 03/11/09 13:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 20:12	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 20:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 20:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 20:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 20:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 20:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 20:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 20:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 20:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 20:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 20:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 20:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 20:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 20:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 20:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 20:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 20:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 20:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 20:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 20:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 20:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/17/09 20:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 20:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		03/17/09 20:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/17/09 20:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 20:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/17/09 20:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 20:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 20:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 20:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 20:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 20:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 20:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 20:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 20:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 20:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 20:12	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 20:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 20:12	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-EB1 **Lab ID: 6055450027** Collected: 03/11/09 13:10 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 20:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 20:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 20:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 20:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 20:12	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 20:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 20:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 20:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/17/09 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 20:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 20:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 20:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/17/09 20:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 20:12	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/17/09 20:12	460-00-4	
Dibromofluoromethane (S)	102	%	87-113	1		03/17/09 20:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/17/09 20:12	17060-07-0	
Toluene-d8 (S)	109	%	89-111	1		03/17/09 20:12	2037-26-5	
Preservation pH	1.0		0.10	1		03/17/09 20:12		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-3C **Lab ID: 6055450028** Collected: 03/11/09 13:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/17/09 20:27	67-64-1	
Benzene	ND	ug/L	1.0	1		03/17/09 20:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/17/09 20:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/17/09 20:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/17/09 20:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/17/09 20:27	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/17/09 20:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/17/09 20:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/17/09 20:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/17/09 20:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/17/09 20:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/17/09 20:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/17/09 20:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/17/09 20:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 20:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/17/09 20:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/17/09 20:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/17/09 20:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/17/09 20:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/17/09 20:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/17/09 20:27	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		03/17/09 20:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/17/09 20:27	107-06-2	
1,2-Dichloroethene (Total)	**120**	ug/L	1.0	1		03/17/09 20:27	540-59-0	
1,1-Dichloroethene	**3.5**	ug/L	1.0	1		03/17/09 20:27	75-35-4	
cis-1,2-Dichloroethene	**118**	ug/L	1.0	1		03/17/09 20:27	156-59-2	
trans-1,2-Dichloroethene	**2.0**	ug/L	1.0	1		03/17/09 20:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 20:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/17/09 20:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/17/09 20:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/17/09 20:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 20:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/17/09 20:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/17/09 20:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/17/09 20:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/17/09 20:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/17/09 20:27	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/17/09 20:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/17/09 20:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/17/09 20:27	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-3C **Lab ID: 6055450028** Collected: 03/11/09 13:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/17/09 20:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	103-65-1	
Styrene	ND	ug/L	1.0	1		03/17/09 20:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 20:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/17/09 20:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/17/09 20:27	127-18-4	
Toluene	ND	ug/L	1.0	1		03/17/09 20:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/17/09 20:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/17/09 20:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/17/09 20:27	79-00-5	
Trichloroethene	**28.0**	ug/L	1.0	1		03/17/09 20:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/17/09 20:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/17/09 20:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/17/09 20:27	108-67-8	
Vinyl chloride	**3.2**	ug/L	1.0	1		03/17/09 20:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/17/09 20:27	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/17/09 20:27	460-00-4	
Dibromofluoromethane (S)	107	%	87-113	1		03/17/09 20:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/17/09 20:27	17060-07-0	
Toluene-d8 (S)	106	%	89-111	1		03/17/09 20:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/17/09 20:27		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-3B **Lab ID: 6055450029** Collected: 03/11/09 13:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/21/09 16:07	67-64-1	
Benzene	ND	ug/L	1.0	1		03/21/09 16:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/21/09 16:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/21/09 16:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/21/09 16:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/21/09 16:07	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/21/09 16:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/21/09 16:07	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/21/09 16:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/21/09 16:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/21/09 16:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/21/09 16:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/21/09 16:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/21/09 16:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/21/09 16:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/21/09 16:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/21/09 16:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/21/09 16:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/21/09 16:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/21/09 16:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/21/09 16:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/21/09 16:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/21/09 16:07	107-06-2	
1,2-Dichloroethene (Total)	**39.4**	ug/L	1.0	1		03/21/09 16:07	540-59-0	
1,1-Dichloroethene	**1.1**	ug/L	1.0	1		03/21/09 16:07	75-35-4	
cis-1,2-Dichloroethene	**38.7**	ug/L	1.0	1		03/21/09 16:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/21/09 16:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/21/09 16:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/21/09 16:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/21/09 16:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/21/09 16:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/21/09 16:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/21/09 16:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/21/09 16:07	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/21/09 16:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/21/09 16:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/21/09 16:07	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/21/09 16:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/21/09 16:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/21/09 16:07	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-3B **Lab ID: 6055450029** Collected: 03/11/09 13:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/21/09 16:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	103-65-1	
Styrene	ND	ug/L	1.0	1		03/21/09 16:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/21/09 16:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/21/09 16:07	79-34-5	
Tetrachloroethene	**3.5**	ug/L	1.0	1		03/21/09 16:07	127-18-4	
Toluene	ND	ug/L	1.0	1		03/21/09 16:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/21/09 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/21/09 16:07	79-00-5	
Trichloroethene	**17.3**	ug/L	1.0	1		03/21/09 16:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/21/09 16:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/21/09 16:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/21/09 16:07	108-67-8	
Vinyl chloride	**1.1**	ug/L	1.0	1		03/21/09 16:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/21/09 16:07	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-115	1		03/21/09 16:07	460-00-4	
Dibromofluoromethane (S)	106	%	87-113	1		03/21/09 16:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/21/09 16:07	17060-07-0	
Toluene-d8 (S)	108	%	89-111	1		03/21/09 16:07	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/21/09 16:07		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-3A **Lab ID: 6055450030** Collected: 03/11/09 13:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/20/09 15:08	67-64-1	
Benzene	ND	ug/L	1.0	1		03/20/09 15:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 15:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 15:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 15:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 15:08	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 15:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 15:08	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 15:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 15:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/20/09 15:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 15:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 15:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 15:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 15:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 15:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 15:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 15:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 15:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 15:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 15:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/20/09 15:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 15:08	107-06-2	
1,2-Dichloroethene (Total)	**8.5**	ug/L	1.0	1		03/20/09 15:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 15:08	75-35-4	
cis-1,2-Dichloroethene	**8.4**	ug/L	1.0	1		03/20/09 15:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 15:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/20/09 15:08	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 15:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 15:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 15:08	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 15:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 15:08	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-3A **Lab ID: 6055450030** Collected: 03/11/09 13:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 15:08	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 15:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 15:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 15:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/20/09 15:08	127-18-4	
Toluene	ND	ug/L	1.0	1		03/20/09 15:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 15:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 15:08	79-00-5	
Trichloroethene	**2.2**	ug/L	1.0	1		03/20/09 15:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 15:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 15:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 15:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 15:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 15:08	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/20/09 15:08	460-00-4	
Dibromofluoromethane (S)	102	%	87-113	1		03/20/09 15:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-121	1		03/20/09 15:08	17060-07-0	
Toluene-d8 (S)	109	%	89-111	1		03/20/09 15:08	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/20/09 15:08		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-2C **Lab ID: 6055450031** Collected: 03/11/09 14:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/21/09 16:22	67-64-1	
Benzene	ND	ug/L	1.0	1		03/21/09 16:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/21/09 16:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/21/09 16:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/21/09 16:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/21/09 16:22	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/21/09 16:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/21/09 16:22	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/21/09 16:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/21/09 16:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/21/09 16:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/21/09 16:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/21/09 16:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/21/09 16:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/21/09 16:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/21/09 16:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/21/09 16:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/21/09 16:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/21/09 16:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/21/09 16:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/21/09 16:22	75-71-8	
1,1-Dichloroethane	**1.0**	ug/L	1.0	1		03/21/09 16:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/21/09 16:22	107-06-2	
1,2-Dichloroethene (Total)	**43.5**	ug/L	1.0	1		03/21/09 16:22	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/21/09 16:22	75-35-4	
cis-1,2-Dichloroethene	**42.8**	ug/L	1.0	1		03/21/09 16:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/21/09 16:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/21/09 16:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/21/09 16:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/21/09 16:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/21/09 16:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/21/09 16:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/21/09 16:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/21/09 16:22	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/21/09 16:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/21/09 16:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/21/09 16:22	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/21/09 16:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/21/09 16:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/21/09 16:22	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-2C **Lab ID: 6055450031** Collected: 03/11/09 14:35 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/21/09 16:22	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	103-65-1	
Styrene	ND	ug/L	1.0	1		03/21/09 16:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/21/09 16:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/21/09 16:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/21/09 16:22	127-18-4	
Toluene	ND	ug/L	1.0	1		03/21/09 16:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/21/09 16:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/21/09 16:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/21/09 16:22	79-00-5	
Trichloroethene	**4.9**	ug/L	1.0	1		03/21/09 16:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/21/09 16:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/21/09 16:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/21/09 16:22	108-67-8	
Vinyl chloride	**1.4**	ug/L	1.0	1		03/21/09 16:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/21/09 16:22	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/21/09 16:22	460-00-4	
Dibromofluoromethane (S)	107	%	87-113	1		03/21/09 16:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	81-121	1		03/21/09 16:22	17060-07-0	
Toluene-d8 (S)	107	%	89-111	1		03/21/09 16:22	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/21/09 16:22		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-2B Lab ID: **6055450032** Collected: 03/11/09 14:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**10.5**	ug/L	10.0	1		03/20/09 15:38	67-64-1	
Benzene	ND	ug/L	1.0	1		03/20/09 15:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 15:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 15:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 15:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 15:38	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 15:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 15:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 15:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 15:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/20/09 15:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 15:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 15:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 15:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 15:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 15:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 15:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 15:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 15:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 15:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 15:38	75-71-8	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		03/20/09 15:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 15:38	107-06-2	
1,2-Dichloroethene (Total)	**26.9**	ug/L	1.0	1		03/20/09 15:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 15:38	75-35-4	
cis-1,2-Dichloroethene	**26.5**	ug/L	1.0	1		03/20/09 15:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 15:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/20/09 15:38	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 15:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 15:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 15:38	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 15:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 15:38	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-2B **Lab ID: 6055450032** Collected: 03/11/09 14:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 15:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 15:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 15:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 15:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/20/09 15:38	127-18-4	
Toluene	ND	ug/L	1.0	1		03/20/09 15:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 15:38	79-00-5	
Trichloroethene	**4.4**	ug/L	1.0	1		03/20/09 15:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 15:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 15:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 15:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 15:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 15:38	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/20/09 15:38	460-00-4	
Dibromofluoromethane (S)	102	%	87-113	1		03/20/09 15:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	81-121	1		03/20/09 15:38	17060-07-0	
Toluene-d8 (S)	110	%	89-111	1		03/20/09 15:38	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/20/09 15:38		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-2A **Lab ID: 6055450033** Collected: 03/11/09 14:55 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/20/09 15:53	67-64-1	
Benzene	ND	ug/L	1.0	1		03/20/09 15:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 15:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 15:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 15:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 15:53	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 15:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 15:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 15:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 15:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/20/09 15:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 15:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 15:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 15:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 15:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 15:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 15:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/20/09 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 15:53	107-06-2	
1,2-Dichloroethene (Total)	**3.0**	ug/L	1.0	1		03/20/09 15:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 15:53	75-35-4	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	1		03/20/09 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 15:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 15:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 15:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/20/09 15:53	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 15:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 15:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 15:53	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 15:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 15:53	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-2A **Lab ID: 6055450033** Collected: 03/11/09 14:55 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 15:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 15:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/20/09 15:53	127-18-4	
Toluene	**1.1**	ug/L	1.0	1		03/20/09 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 15:53	79-00-5	
Trichloroethene	**1.9**	ug/L	1.0	1		03/20/09 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 15:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 15:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 15:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 15:53	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/20/09 15:53	460-00-4	
Dibromofluoromethane (S)	105	%	87-113	1		03/20/09 15:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	81-121	1		03/20/09 15:53	17060-07-0	
Toluene-d8 (S)	106	%	89-111	1		03/20/09 15:53	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/20/09 15:53		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-1C **Lab ID: 6055450034** Collected: 03/11/09 15:15 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/23/09 15:41	67-64-1	
Benzene	ND	ug/L	1.0	1		03/23/09 15:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/23/09 15:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/23/09 15:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/23/09 15:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/23/09 15:41	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/23/09 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/23/09 15:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	98-06-6	
Carbon disulfide	**6.1**	ug/L	5.0	1		03/23/09 15:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/23/09 15:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/23/09 15:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/23/09 15:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/23/09 15:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/23/09 15:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/23/09 15:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/23/09 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/23/09 15:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/23/09 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/23/09 15:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/23/09 15:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/23/09 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/23/09 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/23/09 15:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/23/09 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/23/09 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/23/09 15:41	107-06-2	
1,2-Dichloroethene (Total)	**69.6**	ug/L	1.0	1		03/23/09 15:41	540-59-0	
1,1-Dichloroethene	**1.9**	ug/L	1.0	1		03/23/09 15:41	75-35-4	
cis-1,2-Dichloroethene	**65.6**	ug/L	1.0	1		03/23/09 15:41	156-59-2	
trans-1,2-Dichloroethene	**4.0**	ug/L	1.0	1		03/23/09 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/23/09 15:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/23/09 15:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/23/09 15:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/23/09 15:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/23/09 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/23/09 15:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/23/09 15:41	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/23/09 15:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/23/09 15:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/23/09 15:41	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/23/09 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/23/09 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/23/09 15:41	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-1C **Lab ID: 6055450034** Collected: 03/11/09 15:15 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/23/09 15:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	103-65-1	
Styrene	ND	ug/L	1.0	1		03/23/09 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/09 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/23/09 15:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/23/09 15:41	127-18-4	
Toluene	**2.0**	ug/L	1.0	1		03/23/09 15:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/23/09 15:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/23/09 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/23/09 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/23/09 15:41	79-00-5	
Trichloroethene	**10**	ug/L	1.0	1		03/23/09 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/23/09 15:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/23/09 15:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/23/09 15:41	108-67-8	
Vinyl chloride	**7.1**	ug/L	1.0	1		03/23/09 15:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/23/09 15:41	1330-20-7	
4-Bromofluorobenzene (S)	105	%	87-115	1		03/23/09 15:41	460-00-4	
Dibromofluoromethane (S)	94	%	87-113	1		03/23/09 15:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	81-121	1		03/23/09 15:41	17060-07-0	
Toluene-d8 (S)	101	%	89-111	1		03/23/09 15:41	2037-26-5	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-1B **Lab ID: 6055450035** Collected: 03/11/09 15:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/20/09 16:23	67-64-1	
Benzene	**2.3**	ug/L	1.0	1		03/20/09 16:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 16:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 16:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 16:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 16:23	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 16:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 16:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 16:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 16:23	56-23-5	
Chlorobenzene	**1.0**	ug/L	1.0	1		03/20/09 16:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 16:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 16:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 16:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 16:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 16:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 16:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 16:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 16:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 16:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 16:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 16:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 16:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/20/09 16:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 16:23	107-06-2	
1,2-Dichloroethene (Total)	**6.2**	ug/L	1.0	1		03/20/09 16:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 16:23	75-35-4	
cis-1,2-Dichloroethene	**6.2**	ug/L	1.0	1		03/20/09 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 16:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 16:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 16:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 16:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 16:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 16:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 16:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	100-41-4	
Hexachloro-1,3-buladiene	ND	ug/L	1.0	1		03/20/09 16:23	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 16:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 16:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 16:23	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 16:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 16:23	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-1B **Lab ID: 6055450035** Collected: 03/11/09 15:20 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 16:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 16:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/20/09 16:23	127-18-4	
Toluene	ND	ug/L	1.0	1		03/20/09 16:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 16:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 16:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 16:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 16:23	79-00-5	
Trichloroethene	**1.0**	ug/L	1.0	1		03/20/09 16:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 16:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 16:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 16:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 16:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 16:23	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-115	1		03/20/09 16:23	460-00-4	
Dibromofluoromethane (S)	105	%	87-113	1		03/20/09 16:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-121	1		03/20/09 16:23	17060-07-0	
Toluene-d8 (S)	108	%	89-111	1		03/20/09 16:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/20/09 16:23		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-1A **Lab ID: 6055450036** Collected: 03/11/09 15:30 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/20/09 17:23	67-64-1	
Benzene	ND	ug/L	1.0	1		03/20/09 17:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 17:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 17:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 17:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 17:23	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 17:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 17:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 17:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 17:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/20/09 17:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 17:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 17:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 17:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 17:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 17:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 17:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 17:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 17:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 17:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 17:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/20/09 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 17:23	107-06-2	
1,2-Dichloroethene (Total)	**4.9**	ug/L	1.0	1		03/20/09 17:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:23	75-35-4	
cis-1,2-Dichloroethene	**4.9**	ug/L	1.0	1		03/20/09 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/20/09 17:23	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 17:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 17:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 17:23	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 17:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 17:23	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-1A **Lab ID: 6055450036** Collected: 03/11/09 15:30 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 17:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 17:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 17:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 17:23	79-34-5	
Tetrachloroethene	**3.5**	ug/L	1.0	1		03/20/09 17:23	127-18-4	
Toluene	ND	ug/L	1.0	1		03/20/09 17:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 17:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 17:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/20/09 17:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 17:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 17:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 17:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 17:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 17:23	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-115	1		03/20/09 17:23	460-00-4	
Dibromofluoromethane (S)	108	%	87-113	1		03/20/09 17:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	81-121	1		03/20/09 17:23	17060-07-0	
Toluene-d8 (S)	106	%	89-111	1		03/20/09 17:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		03/20/09 17:23		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-EB2 **Lab ID: 6055450037** Collected: 03/11/09 15:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/20/09 17:38	67-64-1	
Benzene	ND	ug/L	1.0	1		03/20/09 17:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 17:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 17:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 17:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 17:38	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 17:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 17:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 17:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 17:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/20/09 17:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 17:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 17:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 17:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 17:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 17:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 17:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 17:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 17:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 17:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 17:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/20/09 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 17:38	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		03/20/09 17:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/20/09 17:38	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 17:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 17:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 17:38	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 17:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 17:38	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: DPT-GW-EB2 **Lab ID: 6055450037** Collected: 03/11/09 15:45 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 17:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 17:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 17:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/20/09 17:38	127-18-4	
Toluene	ND	ug/L	1.0	1		03/20/09 17:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 17:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/20/09 17:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 17:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 17:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 17:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 17:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 17:38	1330-20-7	
4-Bromofluorobenzene (S)	102	%	87-115	1		03/20/09 17:38	460-00-4	
Dibromofluoromethane (S)	106	%	87-113	1		03/20/09 17:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	81-121	1		03/20/09 17:38	17060-07-0	
Toluene-d8 (S)	105	%	89-111	1		03/20/09 17:38	2037-26-5	
Preservation pH	1.0		0.10	1		03/20/09 17:38		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: TRIP BLANK **Lab ID: 6055450038** Collected: 03/11/09 00:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		03/20/09 17:52	67-64-1	
Benzene	ND	ug/L	1.0	1		03/20/09 17:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/20/09 17:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/20/09 17:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/20/09 17:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/20/09 17:52	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/20/09 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/20/09 17:52	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		03/20/09 17:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		03/20/09 17:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/20/09 17:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/20/09 17:52	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/20/09 17:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/20/09 17:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 17:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/20/09 17:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		03/20/09 17:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/20/09 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/20/09 17:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/20/09 17:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/20/09 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/20/09 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/20/09 17:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		03/20/09 17:52	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/20/09 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/20/09 17:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/20/09 17:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/20/09 17:52	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		03/20/09 17:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		03/20/09 17:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/20/09 17:52	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		03/20/09 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/20/09 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/20/09 17:52	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6055450

Sample: TRIP BLANK **Lab ID: 6055450038** Collected: 03/11/09 00:00 Received: 03/11/09 20:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		03/20/09 17:52	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	103-65-1	
Styrene	ND	ug/L	1.0	1		03/20/09 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 17:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/20/09 17:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/20/09 17:52	127-18-4	
Toluene	ND	ug/L	1.0	1		03/20/09 17:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/20/09 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/20/09 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/20/09 17:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/20/09 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/20/09 17:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		03/20/09 17:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		03/20/09 17:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		03/20/09 17:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/20/09 17:52	1330-20-7	
4-Bromofluorobenzene (S)	101	%	87-115	1		03/20/09 17:52	460-00-4	
Dibromofluoromethane (S)	104	%	87-113	1		03/20/09 17:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-121	1		03/20/09 17:52	17060-07-0	
Toluene-d8 (S)	102	%	89-111	1		03/20/09 17:52	2037-26-5	
Preservation pH	1.0		0.10	1		03/20/09 17:52		

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20060 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450001, 6055450002, 6055450003

METHOD BLANK: 455810 Matrix: Water
Associated Lab Samples: 6055450001, 6055450002, 6055450003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/16/09 19:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/16/09 19:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/16/09 19:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/16/09 19:10	
1,1-Dichloroethane	ug/L	ND	1.0	03/16/09 19:10	
1,1-Dichloroethene	ug/L	ND	1.0	03/16/09 19:10	
1,1-Dichloropropene	ug/L	ND	1.0	03/16/09 19:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/16/09 19:10	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/16/09 19:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/16/09 19:10	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/16/09 19:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/16/09 19:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/16/09 19:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/16/09 19:10	
1,2-Dichloroethane	ug/L	ND	1.0	03/16/09 19:10	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/16/09 19:10	
1,2-Dichloropropane	ug/L	ND	1.0	03/16/09 19:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/16/09 19:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/16/09 19:10	
1,3-Dichloropropane	ug/L	ND	1.0	03/16/09 19:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/16/09 19:10	
2,2-Dichloropropane	ug/L	ND	1.0	03/16/09 19:10	
2-Butanone (MEK)	ug/L	ND	10.0	03/16/09 19:10	
2-Chlorotoluene	ug/L	ND	1.0	03/16/09 19:10	
2-Hexanone	ug/L	ND	10.0	03/16/09 19:10	
4-Chlorotoluene	ug/L	ND	1.0	03/16/09 19:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/16/09 19:10	
Acetone	ug/L	ND	10.0	03/16/09 19:10	
Benzene	ug/L	ND	1.0	03/16/09 19:10	
Bromobenzene	ug/L	ND	1.0	03/16/09 19:10	
Bromochloromethane	ug/L	ND	1.0	03/16/09 19:10	
Bromodichloromethane	ug/L	ND	1.0	03/16/09 19:10	
Bromoform	ug/L	ND	1.0	03/16/09 19:10	
Bromomethane	ug/L	ND	1.0	03/16/09 19:10	
Carbon disulfide	ug/L	ND	5.0	03/16/09 19:10	
Carbon tetrachloride	ug/L	ND	1.0	03/16/09 19:10	
Chlorobenzene	ug/L	ND	1.0	03/16/09 19:10	
Chloroethane	ug/L	ND	1.0	03/16/09 19:10	
Chloroform	ug/L	ND	1.0	03/16/09 19:10	
Chloromethane	ug/L	ND	1.0	03/16/09 19:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/16/09 19:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/16/09 19:10	
Dibromochloromethane	ug/L	ND	1.0	03/16/09 19:10	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 455810 Matrix: Water

Associated Lab Samples: 6055450001, 6055450002, 6055450003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/16/09 19:10	
Dichlorodifluoromethane	ug/L	ND	1.0	03/16/09 19:10	
Ethylbenzene	ug/L	ND	1.0	03/16/09 19:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/16/09 19:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/16/09 19:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/16/09 19:10	
Methylene chloride	ug/L	ND	1.0	03/16/09 19:10	
n-Butylbenzene	ug/L	ND	1.0	03/16/09 19:10	
n-Propylbenzene	ug/L	ND	1.0	03/16/09 19:10	
Naphthalene	ug/L	ND	10.0	03/16/09 19:10	
p-Isopropyltoluene	ug/L	ND	1.0	03/16/09 19:10	
sec-Butylbenzene	ug/L	ND	1.0	03/16/09 19:10	
Styrene	ug/L	ND	1.0	03/16/09 19:10	
tert-Butylbenzene	ug/L	ND	1.0	03/16/09 19:10	
Tetrachloroethene	ug/L	ND	1.0	03/16/09 19:10	
Toluene	ug/L	ND	1.0	03/16/09 19:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/16/09 19:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/16/09 19:10	
Trichloroethene	ug/L	ND	1.0	03/16/09 19:10	
Trichlorofluoromethane	ug/L	ND	1.0	03/16/09 19:10	
Vinyl chloride	ug/L	ND	1.0	03/16/09 19:10	
Xylene (Total)	ug/L	ND	3.0	03/16/09 19:10	
1,2-Dichloroethane-d4 (S)	%	94	81-121	03/16/09 19:10	
4-Bromofluorobenzene (S)	%	99	87-115	03/16/09 19:10	
Dibromofluoromethane (S)	%	98	87-113	03/16/09 19:10	
Toluene-d8 (S)	%	111	89-111	03/16/09 19:10	

LABORATORY CONTROL SAMPLE: 455811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.5	85	75-121	
1,1,1-Trichloroethane	ug/L	10	9.2	92	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	8.5	85	73-128	
1,1,2-Trichloroethane	ug/L	10	8.6	86	83-125	
1,1-Dichloroethane	ug/L	10	8.9	89	79-115	
1,1-Dichloroethene	ug/L	10	9.6	96	76-122	
1,1-Dichloropropene	ug/L	10	9.0	90	80-119	
1,2,3-Trichlorobenzene	ug/L	10	9.0	90	70-138	
1,2,3-Trichloropropane	ug/L	10	9.6	96	74-129	
1,2,4-Trichlorobenzene	ug/L	10	8.9	89	72-131	
1,2,4-Trimethylbenzene	ug/L	10	9.9	99	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	9.4	94	61-139	
1,2-Dibromoethane (EDB)	ug/L	10	8.5	85	80-124	
1,2-Dichlorobenzene	ug/L	10	9.4	94	82-113	
1,2-Dichloroethane	ug/L	10	9.0	90	78-118	

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 455811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	18.6	93	79-120	
1,2-Dichloropropane	ug/L	10	9.0	90	83-117	
1,3,5-Trimethylbenzene	ug/L	10	9.7	97	79-116	
1,3-Dichlorobenzene	ug/L	10	9.4	94	82-112	
1,3-Dichloropropane	ug/L	10	8.3	83	82-121	
1,4-Dichlorobenzene	ug/L	10	9.2	92	81-111	
2,2-Dichloropropane	ug/L	10	7.8	78	55-139	
2-Butanone (MEK)	ug/L	25	19.6	78	61-136	
2-Chlorotoluene	ug/L	10	9.7	97	81-115	
2-Hexanone	ug/L	25	20.0	80	65-137	
4-Chlorotoluene	ug/L	10	9.4	94	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	21.1	84	65-133	
Acetone	ug/L	25	20.2	81	58-126	
Benzene	ug/L	10	9.6	96	81-114	
Bromobenzene	ug/L	10	9.6	96	84-113	
Bromochloromethane	ug/L	10	9.9	99	79-120	
Bromodichloromethane	ug/L	10	8.9	89	75-119	
Bromoform	ug/L	10	7.7	77	66-132	
Bromomethane	ug/L	10	15.2	152	58-151	L3
Carbon disulfide	ug/L	10	8.6	86	49-148	
Carbon tetrachloride	ug/L	10	9.1	91	62-137	
Chlorobenzene	ug/L	10	9.5	95	81-113	
Chloroethane	ug/L	10	8.9	89	65-119	
Chloroform	ug/L	10	9.1	91	76-118	
Chloromethane	ug/L	10	9.5	95	40-132	
cis-1,2-Dichloroethene	ug/L	10	9.1	91	80-119	
cis-1,3-Dichloropropene	ug/L	10	8.6	86	75-122	
Dibromochloromethane	ug/L	10	8.0	80	72-124	
Dibromomethane	ug/L	10	9.0	90	79-121	
Dichlorodifluoromethane	ug/L	10	9.0	90	11-156	
Ethylbenzene	ug/L	10	9.3	93	82-115	
Hexachloro-1,3-butadiene	ug/L	10	9.5	95	72-139	
Isopropylbenzene (Cumene)	ug/L	10	8.4	84	69-103	
Methyl-tert-butyl ether	ug/L	10	7.4	74	65-113	
Methylene chloride	ug/L	10	9.6	96	76-124	
n-Butylbenzene	ug/L	10	9.8	98	77-121	
n-Propylbenzene	ug/L	10	9.6	96	79-116	
Naphthalene	ug/L	10	9.2J	92	66-132	
p-Isopropyltoluene	ug/L	10	9.5	95	77-114	
sec-Butylbenzene	ug/L	10	9.7	97	80-119	
Styrene	ug/L	10	9.6	96	81-115	
tert-Butylbenzene	ug/L	10	9.5	95	77-121	
Tetrachloroethene	ug/L	10	9.3	93	73-122	
Toluene	ug/L	10	10.5	105	82-114	
trans-1,2-Dichloroethene	ug/L	10	9.5	95	75-122	
trans-1,3-Dichloropropene	ug/L	10	7.2	72	66-114	
Trichloroethene	ug/L	10	9.7	97	78-119	
Trichlorofluoromethane	ug/L	10	9.4	94	71-120	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 455811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	10.5	105	67-139	
Xylene (Total)	ug/L	30	30.0	100	81-116	
1,2-Dichloroethane-d4 (S)	%			93	81-121	
4-Bromofluorobenzene (S)	%			98	87-115	
Dibromofluoromethane (S)	%			97	87-113	
Toluene-d8 (S)	%			109	89-111	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20066 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450004, 6055450005, 6055450006, 6055450007, 6055450008, 6055450009, 6055450010, 6055450011, 6055450012, 6055450013, 6055450014

METHOD BLANK: 456022 Matrix: Water
Associated Lab Samples: 6055450004, 6055450005, 6055450006, 6055450007, 6055450008, 6055450009, 6055450010, 6055450011, 6055450012, 6055450013, 6055450014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/17/09 09:24	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/17/09 09:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/17/09 09:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/17/09 09:24	
1,1-Dichloroethane	ug/L	ND	1.0	03/17/09 09:24	
1,1-Dichloroethene	ug/L	ND	1.0	03/17/09 09:24	
1,1-Dichloropropene	ug/L	ND	1.0	03/17/09 09:24	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/17/09 09:24	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/17/09 09:24	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/17/09 09:24	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/17/09 09:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/17/09 09:24	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/17/09 09:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/17/09 09:24	
1,2-Dichloroethane	ug/L	ND	1.0	03/17/09 09:24	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/17/09 09:24	
1,2-Dichloropropane	ug/L	ND	1.0	03/17/09 09:24	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/17/09 09:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/17/09 09:24	
1,3-Dichloropropane	ug/L	ND	1.0	03/17/09 09:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/17/09 09:24	
2,2-Dichloropropane	ug/L	ND	1.0	03/17/09 09:24	
2-Butanone (MEK)	ug/L	ND	10.0	03/17/09 09:24	
2-Chlorotoluene	ug/L	ND	1.0	03/17/09 09:24	
2-Hexanone	ug/L	ND	10.0	03/17/09 09:24	
4-Chlorotoluene	ug/L	ND	1.0	03/17/09 09:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/17/09 09:24	
Acetone	ug/L	ND	10.0	03/17/09 09:24	
Benzene	ug/L	ND	1.0	03/17/09 09:24	
Bromobenzene	ug/L	ND	1.0	03/17/09 09:24	
Bromochloromethane	ug/L	ND	1.0	03/17/09 09:24	
Bromodichloromethane	ug/L	ND	1.0	03/17/09 09:24	
Bromoform	ug/L	ND	1.0	03/17/09 09:24	
Bromomethane	ug/L	ND	1.0	03/17/09 09:24	
Carbon disulfide	ug/L	ND	5.0	03/17/09 09:24	
Carbon tetrachloride	ug/L	ND	1.0	03/17/09 09:24	
Chlorobenzene	ug/L	ND	1.0	03/17/09 09:24	
Chloroethane	ug/L	ND	1.0	03/17/09 09:24	
Chloroform	ug/L	ND	1.0	03/17/09 09:24	
Chloromethane	ug/L	ND	1.0	03/17/09 09:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/17/09 09:24	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 456022 Matrix: Water

Associated Lab Samples: 6055450004, 6055450005, 6055450006, 6055450007, 6055450008, 6055450009, 6055450010, 6055450011, 6055450012, 6055450013, 6055450014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/17/09 09:24	
Dibromochloromethane	ug/L	ND	1.0	03/17/09 09:24	
Dibromomethane	ug/L	ND	1.0	03/17/09 09:24	
Dichlorodifluoromethane	ug/L	ND	1.0	03/17/09 09:24	
Ethylbenzene	ug/L	ND	1.0	03/17/09 09:24	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/17/09 09:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/17/09 09:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/17/09 09:24	
Methylene chloride	ug/L	ND	1.0	03/17/09 09:24	
n-Butylbenzene	ug/L	ND	1.0	03/17/09 09:24	
n-Propylbenzene	ug/L	ND	1.0	03/17/09 09:24	
Naphthalene	ug/L	ND	10.0	03/17/09 09:24	
p-Isopropyltoluene	ug/L	ND	1.0	03/17/09 09:24	
sec-Butylbenzene	ug/L	ND	1.0	03/17/09 09:24	
Styrene	ug/L	ND	1.0	03/17/09 09:24	
tert-Butylbenzene	ug/L	ND	1.0	03/17/09 09:24	
Tetrachloroethene	ug/L	ND	1.0	03/17/09 09:24	
Toluene	ug/L	ND	1.0	03/17/09 09:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/17/09 09:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/17/09 09:24	
Trichloroethene	ug/L	ND	1.0	03/17/09 09:24	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/09 09:24	
Vinyl chloride	ug/L	ND	1.0	03/17/09 09:24	
Xylene (Total)	ug/L	ND	3.0	03/17/09 09:24	
1,2-Dichloroethane-d4 (S)	%	103	81-121	03/17/09 09:24	
4-Bromofluorobenzene (S)	%	100	87-115	03/17/09 09:24	
Dibromofluoromethane (S)	%	102	87-113	03/17/09 09:24	
Toluene-d8 (S)	%	107	89-111	03/17/09 09:24	

LABORATORY CONTROL SAMPLE: 456023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.7	87	75-121	
1,1,1-Trichloroethane	ug/L	10	9.3	93	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	8.9	89	73-128	
1,1,2-Trichloroethane	ug/L	10	8.8	88	83-125	
1,1-Dichloroethane	ug/L	10	9.0	90	79-115	
1,1-Dichloroethene	ug/L	10	9.3	93	76-122	
1,1-Dichloropropene	ug/L	10	9.0	90	80-119	
1,2,3-Trichlorobenzene	ug/L	10	8.6	86	70-138	
1,2,3-Trichloropropane	ug/L	10	9.5	95	74-129	
1,2,4-Trichlorobenzene	ug/L	10	8.6	86	72-131	
1,2,4-Trimethylbenzene	ug/L	10	9.8	98	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	8.8	88	61-139	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 456023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	10	8.7	87	80-124	
1,2-Dichlorobenzene	ug/L	10	9.2	92	82-113	
1,2-Dichloroethane	ug/L	10	9.1	91	78-118	
1,2-Dichloroethene (Total)	ug/L	20	18.9	94	79-120	
1,2-Dichloropropane	ug/L	10	9.1	91	83-117	
1,3,5-Trimethylbenzene	ug/L	10	9.6	96	79-116	
1,3-Dichlorobenzene	ug/L	10	9.2	92	82-112	
1,3-Dichloropropane	ug/L	10	8.4	84	82-121	
1,4-Dichlorobenzene	ug/L	10	8.9	89	81-111	
2,2-Dichloropropane	ug/L	10	8.4	84	55-139	
2-Butanone (MEK)	ug/L	25	20.8	83	61-136	
2-Chlorotoluene	ug/L	10	9.5	95	81-115	
2-Hexanone	ug/L	25	20.8	83	65-137	
4-Chlorotoluene	ug/L	10	9.3	93	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	21.6	87	65-133	
Acetone	ug/L	25	22.6	90	58-126	
Benzene	ug/L	10	9.4	94	81-114	
Bromobenzene	ug/L	10	9.4	94	84-113	
Bromochloromethane	ug/L	10	9.9	99	79-120	
Bromodichloromethane	ug/L	10	9.3	93	75-119	
Bromoform	ug/L	10	8.0	80	66-132	
Bromomethane	ug/L	10	12.9	129	58-151	
Carbon disulfide	ug/L	10	8.6	86	49-148	
Carbon tetrachloride	ug/L	10	9.2	92	62-137	
Chlorobenzene	ug/L	10	9.4	94	81-113	
Chloroethane	ug/L	10	7.9	79	65-119	
Chloroform	ug/L	10	9.4	94	76-118	
Chloromethane	ug/L	10	9.2	92	40-132	
cis-1,2-Dichloroethene	ug/L	10	9.3	93	80-119	
cis-1,3-Dichloropropene	ug/L	10	8.7	87	75-122	
Dibromochloromethane	ug/L	10	8.4	84	72-124	
Dibromomethane	ug/L	10	9.3	93	79-121	
Dichlorodifluoromethane	ug/L	10	8.3	83	11-156	
Ethylbenzene	ug/L	10	9.2	92	82-115	
Hexachloro-1,3-butadiene	ug/L	10	9.4	94	72-139	
Isopropylbenzene (Cumene)	ug/L	10	8.4	84	69-103	
Methyl-tert-butyl ether	ug/L	10	7.2	72	65-113	
Methylene chloride	ug/L	10	9.6	96	76-124	
n-Butylbenzene	ug/L	10	9.4	94	77-121	
n-Propylbenzene	ug/L	10	9.5	95	79-116	
Naphthalene	ug/L	10	8.5J	85	66-132	
p-Isopropyltoluene	ug/L	10	9.3	93	77-114	
sec-Butylbenzene	ug/L	10	9.6	96	80-119	
Styrene	ug/L	10	9.4	94	81-115	
tert-Butylbenzene	ug/L	10	9.4	94	77-121	
Tetrachloroethene	ug/L	10	9.3	93	73-122	
Toluene	ug/L	10	10.0	100	82-114	
trans-1,2-Dichloroethene	ug/L	10	9.6	96	75-122	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 456023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	10	7.2	72	66-114	
Trichloroethene	ug/L	10	9.2	92	78-119	
Trichlorofluoromethane	ug/L	10	9.8	98	71-120	
Vinyl chloride	ug/L	10	10.0	100	67-139	
Xylene (Total)	ug/L	30	29.4	98	81-116	
1,2-Dichloroethane-d4 (S)	%			94	81-121	
4-Bromofluorobenzene (S)	%			98	87-115	
Dibromofluoromethane (S)	%			99	87-113	
Toluene-d8 (S)	%			106	89-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456024 456025

Parameter	Units	6055268001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	10	10	11.0	10.8	110	108	64-151	2	17	
Benzene	ug/L	ND	10	10	10.9	10.6	109	106	65-140	3	24	
Chlorobenzene	ug/L	ND	10	10	10.5	10.1	105	101	71-128	3	27	
Toluene	ug/L	ND	10	10	11.3	10.7	113	107	64-145	5	22	
Trichloroethene	ug/L	82.5	10	10	92.7	91.1	102	86	58-144	2	26	
1,2-Dichloroethane-d4 (S)	%						98	100	81-121			
4-Bromofluorobenzene (S)	%						98	97	87-115			
Dibromofluoromethane (S)	%						99	100	87-113			
Toluene-d8 (S)	%						104	102	89-111			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456080 456081

Parameter	Units	6055450014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	2.0	10	10	11.8	12.4	98	105	64-151	5	17	
Benzene	ug/L	ND	10	10	10.6	11.7	101	112	65-140	9	24	
Chlorobenzene	ug/L	ND	10	10	9.7	10.8	97	108	71-128	11	27	
Toluene	ug/L	ND	10	10	10.5	11.8	103	116	64-145	12	22	
Trichloroethene	ug/L	34.4	10	10	40.6	38.9	63	46	58-144	4	26	M0
1,2-Dichloroethane-d4 (S)	%						101	98	81-121			
4-Bromofluorobenzene (S)	%						100	101	87-115			
Dibromofluoromethane (S)	%						100	98	87-113			
Toluene-d8 (S)	%						100	101	89-111			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20070 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450015, 6055450016, 6055450017, 6055450018, 6055450019, 6055450020, 6055450021, 6055450022, 6055450023, 6055450024, 6055450025, 6055450026, 6055450027, 6055450028

METHOD BLANK: 456096 Matrix: Water
Associated Lab Samples: 6055450015, 6055450016, 6055450017, 6055450018, 6055450019, 6055450020, 6055450021, 6055450022, 6055450023, 6055450024, 6055450025, 6055450026, 6055450027, 6055450028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/17/09 16:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/17/09 16:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/17/09 16:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/17/09 16:26	
1,1-Dichloroethane	ug/L	ND	1.0	03/17/09 16:26	
1,1-Dichloroethene	ug/L	ND	1.0	03/17/09 16:26	
1,1-Dichloropropene	ug/L	ND	1.0	03/17/09 16:26	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/17/09 16:26	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/17/09 16:26	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/17/09 16:26	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/17/09 16:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/17/09 16:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/17/09 16:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/17/09 16:26	
1,2-Dichloroethane	ug/L	ND	1.0	03/17/09 16:26	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/17/09 16:26	
1,2-Dichloropropane	ug/L	ND	1.0	03/17/09 16:26	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/17/09 16:26	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/17/09 16:26	
1,3-Dichloropropane	ug/L	ND	1.0	03/17/09 16:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/17/09 16:26	
2,2-Dichloropropane	ug/L	ND	1.0	03/17/09 16:26	
2-Butanone (MEK)	ug/L	ND	10.0	03/17/09 16:26	
2-Chlorotoluene	ug/L	ND	1.0	03/17/09 16:26	
2-Hexanone	ug/L	ND	10.0	03/17/09 16:26	
4-Chlorotoluene	ug/L	ND	1.0	03/17/09 16:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/17/09 16:26	
Acetone	ug/L	ND	10.0	03/17/09 16:26	
Benzene	ug/L	ND	1.0	03/17/09 16:26	
Bromobenzene	ug/L	ND	1.0	03/17/09 16:26	
Bromochloromethane	ug/L	ND	1.0	03/17/09 16:26	
Bromodichloromethane	ug/L	ND	1.0	03/17/09 16:26	
Bromoform	ug/L	ND	1.0	03/17/09 16:26	
Bromomethane	ug/L	ND	1.0	03/17/09 16:26	
Carbon disulfide	ug/L	ND	5.0	03/17/09 16:26	
Carbon tetrachloride	ug/L	ND	1.0	03/17/09 16:26	
Chlorobenzene	ug/L	ND	1.0	03/17/09 16:26	
Chloroethane	ug/L	ND	1.0	03/17/09 16:26	
Chloroform	ug/L	ND	1.0	03/17/09 16:26	
Chloromethane	ug/L	ND	1.0	03/17/09 16:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/17/09 16:26	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 456096 Matrix: Water

Associated Lab Samples: 6055450015, 6055450016, 6055450017, 6055450018, 6055450019, 6055450020, 6055450021, 6055450022, 6055450023, 6055450024, 6055450025, 6055450026, 6055450027, 6055450028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/17/09 16:26	
Dibromochloromethane	ug/L	ND	1.0	03/17/09 16:26	
Dibromomethane	ug/L	ND	1.0	03/17/09 16:26	
Dichlorodifluoromethane	ug/L	ND	1.0	03/17/09 16:26	
Ethylbenzene	ug/L	ND	1.0	03/17/09 16:26	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/17/09 16:26	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/17/09 16:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/17/09 16:26	
Methylene chloride	ug/L	ND	1.0	03/17/09 16:26	
n-Butylbenzene	ug/L	ND	1.0	03/17/09 16:26	
n-Propylbenzene	ug/L	ND	1.0	03/17/09 16:26	
Naphthalene	ug/L	ND	10.0	03/17/09 16:26	
p-Isopropyltoluene	ug/L	ND	1.0	03/17/09 16:26	
sec-Butylbenzene	ug/L	ND	1.0	03/17/09 16:26	
Styrene	ug/L	ND	1.0	03/17/09 16:26	
tert-Butylbenzene	ug/L	ND	1.0	03/17/09 16:26	
Tetrachloroethene	ug/L	ND	1.0	03/17/09 16:26	
Toluene	ug/L	ND	1.0	03/17/09 16:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/17/09 16:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/17/09 16:26	
Trichloroethene	ug/L	ND	1.0	03/17/09 16:26	
Trichlorofluoromethane	ug/L	ND	1.0	03/17/09 16:26	
Vinyl chloride	ug/L	ND	1.0	03/17/09 16:26	
Xylene (Total)	ug/L	ND	3.0	03/17/09 16:26	
1,2-Dichloroethane-d4 (S)	%	101	81-121	03/17/09 16:26	
4-Bromofluorobenzene (S)	%	98	87-115	03/17/09 16:26	
Dibromofluoromethane (S)	%	100	87-113	03/17/09 16:26	
Toluene-d8 (S)	%	101	89-111	03/17/09 16:26	

LABORATORY CONTROL SAMPLE: 456097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.6	96	75-121	
1,1,1-Trichloroethane	ug/L	10	10	100	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	9.3	93	73-128	
1,1,2-Trichloroethane	ug/L	10	10.1	101	83-125	
1,1-Dichloroethane	ug/L	10	9.3	93	79-115	
1,1-Dichloroethene	ug/L	10	9.7	97	76-122	
1,1-Dichloropropene	ug/L	10	9.8	98	80-119	
1,2,3-Trichlorobenzene	ug/L	10	9.7	97	70-138	
1,2,3-Trichloropropane	ug/L	10	10.9	109	74-129	
1,2,4-Trichlorobenzene	ug/L	10	9.5	95	72-131	
1,2,4-Trimethylbenzene	ug/L	10	10.4	104	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	10.4	104	61-139	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 456097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	10	10.2	102	80-124	
1,2-Dichlorobenzene	ug/L	10	10.1	101	82-113	
1,2-Dichloroethane	ug/L	10	10.5	105	78-118	
1,2-Dichloroethene (Total)	ug/L	20	19.6	98	79-120	
1,2-Dichloropropane	ug/L	10	10.4	104	83-117	
1,3,5-Trimethylbenzene	ug/L	10	10.2	102	79-116	
1,3-Dichlorobenzene	ug/L	10	9.8	98	82-112	
1,3-Dichloropropane	ug/L	10	10.2	102	82-121	
1,4-Dichlorobenzene	ug/L	10	9.7	97	81-111	
2,2-Dichloropropane	ug/L	10	7.8	78	55-139	
2-Butanone (MEK)	ug/L	25	23.8	95	61-136	
2-Chlorotoluene	ug/L	10	10.1	101	81-115	
2-Hexanone	ug/L	25	23.7	95	65-137	
4-Chlorotoluene	ug/L	10	10.1	101	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	23.8	95	65-133	
Acetone	ug/L	25	22.4	90	58-126	
Benzene	ug/L	10	10.2	102	81-114	
Bromobenzene	ug/L	10	10.2	102	84-113	
Bromochloromethane	ug/L	10	10.5	105	79-120	
Bromodichloromethane	ug/L	10	10.1	101	75-119	
Bromoform	ug/L	10	9.4	94	66-132	
Bromomethane	ug/L	10	10.8	108	58-151	
Carbon disulfide	ug/L	10	8.2	82	49-148	
Carbon tetrachloride	ug/L	10	9.5	95	62-137	
Chlorobenzene	ug/L	10	10	100	81-113	
Chloroethane	ug/L	10	8.5	85	65-119	
Chloroform	ug/L	10	9.9	99	76-118	
Chloromethane	ug/L	10	9.2	92	40-132	
cis-1,2-Dichloroethene	ug/L	10	9.9	99	80-119	
cis-1,3-Dichloropropene	ug/L	10	9.5	95	75-122	
Dibromochloromethane	ug/L	10	9.9	99	72-124	
Dibromomethane	ug/L	10	9.9	99	79-121	
Dichlorodifluoromethane	ug/L	10	6.7	67	11-156	
Ethylbenzene	ug/L	10	9.7	97	82-115	
Hexachloro-1,3-butadiene	ug/L	10	9.5	95	72-139	
Isopropylbenzene (Cumene)	ug/L	10	8.6	86	69-103	
Methyl-tert-butyl ether	ug/L	10	9.5	95	65-113	
Methylene chloride	ug/L	10	9.6	96	76-124	
n-Butylbenzene	ug/L	10	9.8	98	77-121	
n-Propylbenzene	ug/L	10	9.9	99	79-116	
Naphthalene	ug/L	10	10.1	101	66-132	
p-Isopropyltoluene	ug/L	10	9.7	97	77-114	
sec-Butylbenzene	ug/L	10	9.8	98	80-119	
Styrene	ug/L	10	10.1	101	81-115	
tert-Butylbenzene	ug/L	10	9.9	99	77-121	
Tetrachloroethene	ug/L	10	9.6	96	73-122	
Toluene	ug/L	10	10.0	100	82-114	
trans-1,2-Dichloroethene	ug/L	10	9.7	97	75-122	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 456097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	10	8.2	82	66-114	
Trichloroethene	ug/L	10	10.8	108	78-119	
Trichlorofluoromethane	ug/L	10	10.0	100	71-120	
Vinyl chloride	ug/L	10	9.6	96	67-139	
Xylene (Total)	ug/L	30	30.7	102	81-116	
1,2-Dichloroethane-d4 (S)	%			98	81-121	
4-Bromofluorobenzene (S)	%			99	87-115	
Dibromofluoromethane (S)	%			96	87-113	
Toluene-d8 (S)	%			100	89-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456098 456099

Parameter	Units	6055450022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	1.5	10	10	13.6	13.3	121	119	64-151	2	17	
Benzene	ug/L	ND	10	10	12.5	12.5	121	122	65-140	0	24	
Chlorobenzene	ug/L	ND	10	10	11.9	11.7	119	117	71-128	1	27	
Toluene	ug/L	ND	10	10	12.8	13.0	125	127	64-145	2	22	
Trichloroethene	ug/L	44.8	10	10	62.7	59.9	179	151	58-144	5	26	M0
1,2-Dichloroethane-d4 (S)	%						97	95	81-121			
4-Bromofluorobenzene (S)	%						98	98	87-115			
Dibromofluoromethane (S)	%						97	98	87-113			
Toluene-d8 (S)	%						105	104	89-111			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20141 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450030, 6055450032, 6055450033, 6055450035

METHOD BLANK: 458088 Matrix: Water
Associated Lab Samples: 6055450030, 6055450032, 6055450033, 6055450035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/20/09 11:24	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/20/09 11:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/20/09 11:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/20/09 11:24	
1,1-Dichloroethane	ug/L	ND	1.0	03/20/09 11:24	
1,1-Dichloroethene	ug/L	ND	1.0	03/20/09 11:24	
1,1-Dichloropropene	ug/L	ND	1.0	03/20/09 11:24	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/20/09 11:24	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/20/09 11:24	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/20/09 11:24	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/20/09 11:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/20/09 11:24	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/20/09 11:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/20/09 11:24	
1,2-Dichloroethane	ug/L	ND	1.0	03/20/09 11:24	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/20/09 11:24	
1,2-Dichloropropane	ug/L	ND	1.0	03/20/09 11:24	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/20/09 11:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/20/09 11:24	
1,3-Dichloropropane	ug/L	ND	1.0	03/20/09 11:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/20/09 11:24	
2,2-Dichloropropane	ug/L	ND	1.0	03/20/09 11:24	
2-Butanone (MEK)	ug/L	ND	10.0	03/20/09 11:24	
2-Chlorotoluene	ug/L	ND	1.0	03/20/09 11:24	
2-Hexanone	ug/L	ND	10.0	03/20/09 11:24	
4-Chlorotoluene	ug/L	ND	1.0	03/20/09 11:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/20/09 11:24	
Acetone	ug/L	ND	10.0	03/20/09 11:24	
Benzene	ug/L	ND	1.0	03/20/09 11:24	
Bromobenzene	ug/L	ND	1.0	03/20/09 11:24	
Bromochloromethane	ug/L	ND	1.0	03/20/09 11:24	
Bromodichloromethane	ug/L	ND	1.0	03/20/09 11:24	
Bromoform	ug/L	ND	1.0	03/20/09 11:24	
Bromomethane	ug/L	ND	1.0	03/20/09 11:24	
Carbon disulfide	ug/L	ND	5.0	03/20/09 11:24	
Carbon tetrachloride	ug/L	ND	1.0	03/20/09 11:24	
Chlorobenzene	ug/L	ND	1.0	03/20/09 11:24	
Chloroethane	ug/L	ND	1.0	03/20/09 11:24	
Chloroform	ug/L	ND	1.0	03/20/09 11:24	
Chloromethane	ug/L	ND	1.0	03/20/09 11:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/20/09 11:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/20/09 11:24	
Dibromochloromethane	ug/L	ND	1.0	03/20/09 11:24	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 458088 Matrix: Water

Associated Lab Samples: 6055450030, 6055450032, 6055450033, 6055450035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/20/09 11:24	
Dichlorodifluoromethane	ug/L	ND	1.0	03/20/09 11:24	
Ethylbenzene	ug/L	ND	1.0	03/20/09 11:24	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/20/09 11:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/20/09 11:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/20/09 11:24	
Methylene chloride	ug/L	ND	1.0	03/20/09 11:24	
n-Butylbenzene	ug/L	ND	1.0	03/20/09 11:24	
n-Propylbenzene	ug/L	ND	1.0	03/20/09 11:24	
Naphthalene	ug/L	ND	10.0	03/20/09 11:24	
p-Isopropyltoluene	ug/L	ND	1.0	03/20/09 11:24	
sec-Butylbenzene	ug/L	ND	1.0	03/20/09 11:24	
Styrene	ug/L	ND	1.0	03/20/09 11:24	
tert-Butylbenzene	ug/L	ND	1.0	03/20/09 11:24	
Tetrachloroethene	ug/L	ND	1.0	03/20/09 11:24	
Toluene	ug/L	ND	1.0	03/20/09 11:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/20/09 11:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/20/09 11:24	
Trichloroethene	ug/L	ND	1.0	03/20/09 11:24	
Trichlorofluoromethane	ug/L	ND	1.0	03/20/09 11:24	
Vinyl chloride	ug/L	ND	1.0	03/20/09 11:24	
Xylene (Total)	ug/L	ND	3.0	03/20/09 11:24	
1,2-Dichloroethane-d4 (S)	%	102	81-121	03/20/09 11:24	
4-Bromofluorobenzene (S)	%	99	87-115	03/20/09 11:24	
Dibromofluoromethane (S)	%	100	87-113	03/20/09 11:24	
Toluene-d8 (S)	%	109	89-111	03/20/09 11:24	

LABORATORY CONTROL SAMPLE: 458089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.8	98	75-121	
1,1,1-Trichloroethane	ug/L	10	10.2	102	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	9.6	96	73-128	
1,1,2-Trichloroethane	ug/L	10	10.3	103	83-125	
1,1-Dichloroethane	ug/L	10	10.2	102	79-115	
1,1-Dichloroethene	ug/L	10	10.6	106	76-122	
1,1-Dichloropropene	ug/L	10	10.2	102	80-119	
1,2,3-Trichlorobenzene	ug/L	10	9.2	92	70-138	
1,2,3-Trichloropropane	ug/L	10	9.9	99	74-129	
1,2,4-Trichlorobenzene	ug/L	10	8.9	89	72-131	
1,2,4-Trimethylbenzene	ug/L	10	10.2	102	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	9.3	93	61-139	
1,2-Dibromoethane (EDB)	ug/L	10	9.9	99	80-124	
1,2-Dichlorobenzene	ug/L	10	9.6	96	82-113	
1,2-Dichloroethane	ug/L	10	10.7	107	78-118	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 458089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	22.1	111	79-120	
1,2-Dichloropropane	ug/L	10	10.3	103	83-117	
1,3,5-Trimethylbenzene	ug/L	10	10	100	79-116	
1,3-Dichlorobenzene	ug/L	10	9.6	96	82-112	
1,3-Dichloropropane	ug/L	10	10	100	82-121	
1,4-Dichlorobenzene	ug/L	10	9.2	92	81-111	
2,2-Dichloropropane	ug/L	10	9.5	95	55-139	
2-Butanone (MEK)	ug/L	25	24.7	99	61-136	
2-Chlorotoluene	ug/L	10	10.0	100	81-115	
2-Hexanone	ug/L	25	23.3	93	65-137	
4-Chlorotoluene	ug/L	10	9.6	96	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	23.4	94	65-133	
Acetone	ug/L	25	28.0	112	58-126	
Benzene	ug/L	10	9.8	98	81-114	
Bromobenzene	ug/L	10	9.9	99	84-113	
Bromochloromethane	ug/L	10	10.8	108	79-120	
Bromodichloromethane	ug/L	10	10.1	101	75-119	
Bromoform	ug/L	10	9.0	90	66-132	
Bromomethane	ug/L	10	12.5	125	58-151	
Carbon disulfide	ug/L	10	8.6	86	49-148	
Carbon tetrachloride	ug/L	10	10.4	104	62-137	
Chlorobenzene	ug/L	10	9.6	96	81-113	
Chloroethane	ug/L	10	8.1	81	65-119	
Chloroform	ug/L	10	10.5	105	76-118	
Chloromethane	ug/L	10	7.3	73	40-132	
cis-1,2-Dichloroethene	ug/L	10	10.9	109	80-119	
cis-1,3-Dichloropropene	ug/L	10	9.8	98	75-122	
Dibromochloromethane	ug/L	10	9.9	99	72-124	
Dibromomethane	ug/L	10	10.2	102	79-121	
Dichlorodifluoromethane	ug/L	10	5.7	57	11-156	
Ethylbenzene	ug/L	10	9.6	96	82-115	
Hexachloro-1,3-butadiene	ug/L	10	9.9	99	72-139	
Isopropylbenzene (Cumene)	ug/L	10	8.8	88	69-103	
Methyl-tert-butyl ether	ug/L	10	10.2	102	65-113	
Methylene chloride	ug/L	10	10.2	102	76-124	
n-Butylbenzene	ug/L	10	9.7	97	77-121	
n-Propylbenzene	ug/L	10	9.8	98	79-116	
Naphthalene	ug/L	10	9.1J	91	66-132	
p-Isopropyltoluene	ug/L	10	9.4	94	77-114	
sec-Butylbenzene	ug/L	10	9.7	97	80-119	
Styrene	ug/L	10	9.4	94	81-115	
tert-Butylbenzene	ug/L	10	9.7	97	77-121	
Tetrachloroethene	ug/L	10	10.0	100	73-122	
Toluene	ug/L	10	10.1	101	82-114	
trans-1,2-Dichloroethene	ug/L	10	11.2	112	75-122	
trans-1,3-Dichloropropene	ug/L	10	8.4	84	66-114	
Trichloroethene	ug/L	10	10.3	103	78-119	
Trichlorofluoromethane	ug/L	10	10.7	107	71-120	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 458089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	9.1	91	67-139	
Xylene (Total)	ug/L	30	30.0	100	81-116	
1,2-Dichloroethane-d4 (S)	%			106	81-121	
4-Bromofluorobenzene (S)	%			99	87-115	
Dibromofluoromethane (S)	%			107	87-113	
Toluene-d8 (S)	%			101	89-111	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20148 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450036, 6055450037, 6055450038

METHOD BLANK: 458208 Matrix: Water
Associated Lab Samples: 6055450036, 6055450037, 6055450038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/20/09 17:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/20/09 17:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/20/09 17:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/20/09 17:08	
1,1-Dichloroethane	ug/L	ND	1.0	03/20/09 17:08	
1,1-Dichloroethene	ug/L	ND	1.0	03/20/09 17:08	
1,1-Dichloropropene	ug/L	ND	1.0	03/20/09 17:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/20/09 17:08	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/20/09 17:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/20/09 17:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/20/09 17:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/20/09 17:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/20/09 17:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/20/09 17:08	
1,2-Dichloroethane	ug/L	ND	1.0	03/20/09 17:08	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/20/09 17:08	
1,2-Dichloropropane	ug/L	ND	1.0	03/20/09 17:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/20/09 17:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/20/09 17:08	
1,3-Dichloropropane	ug/L	ND	1.0	03/20/09 17:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/20/09 17:08	
2,2-Dichloropropane	ug/L	ND	1.0	03/20/09 17:08	
2-Butanone (MEK)	ug/L	ND	10.0	03/20/09 17:08	
2-Chlorotoluene	ug/L	ND	1.0	03/20/09 17:08	
2-Hexanone	ug/L	ND	10.0	03/20/09 17:08	
4-Chlorotoluene	ug/L	ND	1.0	03/20/09 17:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/20/09 17:08	
Acetone	ug/L	ND	10.0	03/20/09 17:08	
Benzene	ug/L	ND	1.0	03/20/09 17:08	
Bromobenzene	ug/L	ND	1.0	03/20/09 17:08	
Bromochloromethane	ug/L	ND	1.0	03/20/09 17:08	
Bromodichloromethane	ug/L	ND	1.0	03/20/09 17:08	
Bromoform	ug/L	ND	1.0	03/20/09 17:08	
Bromomethane	ug/L	ND	1.0	03/20/09 17:08	
Carbon disulfide	ug/L	ND	5.0	03/20/09 17:08	
Carbon tetrachloride	ug/L	ND	1.0	03/20/09 17:08	
Chlorobenzene	ug/L	ND	1.0	03/20/09 17:08	
Chloroethane	ug/L	ND	1.0	03/20/09 17:08	
Chloroform	ug/L	ND	1.0	03/20/09 17:08	
Chloromethane	ug/L	ND	1.0	03/20/09 17:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/20/09 17:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/20/09 17:08	
Dibromochloromethane	ug/L	ND	1.0	03/20/09 17:08	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 458208 Matrix: Water

Associated Lab Samples: 6055450036, 6055450037, 6055450038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/20/09 17:08	
Dichlorodifluoromethane	ug/L	ND	1.0	03/20/09 17:08	
Ethylbenzene	ug/L	ND	1.0	03/20/09 17:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/20/09 17:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/20/09 17:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/20/09 17:08	
Methylene chloride	ug/L	ND	1.0	03/20/09 17:08	
n-Butylbenzene	ug/L	ND	1.0	03/20/09 17:08	
n-Propylbenzene	ug/L	ND	1.0	03/20/09 17:08	
Naphthalene	ug/L	ND	10.0	03/20/09 17:08	
p-Isopropyltoluene	ug/L	ND	1.0	03/20/09 17:08	
sec-Butylbenzene	ug/L	ND	1.0	03/20/09 17:08	
Styrene	ug/L	ND	1.0	03/20/09 17:08	
tert-Butylbenzene	ug/L	ND	1.0	03/20/09 17:08	
Tetrachloroethene	ug/L	ND	1.0	03/20/09 17:08	
Toluene	ug/L	ND	1.0	03/20/09 17:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/20/09 17:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/20/09 17:08	
Trichloroethene	ug/L	ND	1.0	03/20/09 17:08	
Trichlorofluoromethane	ug/L	ND	1.0	03/20/09 17:08	
Vinyl chloride	ug/L	ND	1.0	03/20/09 17:08	
Xylene (Total)	ug/L	ND	3.0	03/20/09 17:08	
1,2-Dichloroethane-d4 (S)	%	99	81-121	03/20/09 17:08	
4-Bromofluorobenzene (S)	%	100	87-115	03/20/09 17:08	
Dibromofluoromethane (S)	%	102	87-113	03/20/09 17:08	
Toluene-d8 (S)	%	109	89-111	03/20/09 17:08	

LABORATORY CONTROL SAMPLE: 458209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.8	98	75-121	
1,1,1-Trichloroethane	ug/L	10	10.2	102	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	9.6	96	73-128	
1,1,2-Trichloroethane	ug/L	10	10.3	103	83-125	
1,1-Dichloroethane	ug/L	10	10.2	102	79-115	
1,1-Dichloroethene	ug/L	10	10.6	106	76-122	
1,1-Dichloropropene	ug/L	10	10.2	102	80-119	
1,2,3-Trichlorobenzene	ug/L	10	9.2	92	70-138	
1,2,3-Trichloropropane	ug/L	10	9.9	99	74-129	
1,2,4-Trichlorobenzene	ug/L	10	8.9	89	72-131	
1,2,4-Trimethylbenzene	ug/L	10	10.2	102	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	9.3	93	61-139	
1,2-Dibromoethane (EDB)	ug/L	10	9.9	99	80-124	
1,2-Dichlorobenzene	ug/L	10	9.6	96	82-113	
1,2-Dichloroethane	ug/L	10	10.7	107	78-118	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 458209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	22.1	111	79-120	
1,2-Dichloropropane	ug/L	10	10.3	103	83-117	
1,3,5-Trimethylbenzene	ug/L	10	10	100	79-116	
1,3-Dichlorobenzene	ug/L	10	9.6	96	82-112	
1,3-Dichloropropane	ug/L	10	10	100	82-121	
1,4-Dichlorobenzene	ug/L	10	9.2	92	81-111	
2,2-Dichloropropane	ug/L	10	9.5	95	55-139	
2-Butanone (MEK)	ug/L	25	24.7	99	61-136	
2-Chlorotoluene	ug/L	10	10.0	100	81-115	
2-Hexanone	ug/L	25	23.3	93	65-137	
4-Chlorotoluene	ug/L	10	9.6	96	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	23.4	94	65-133	
Acetone	ug/L	25	28.0	112	58-126	
Benzene	ug/L	10	9.8	98	81-114	
Bromobenzene	ug/L	10	9.9	99	84-113	
Bromochloromethane	ug/L	10	10.8	108	79-120	
Bromodichloromethane	ug/L	10	10.1	101	75-119	
Bromoform	ug/L	10	9.0	90	66-132	
Bromomethane	ug/L	10	12.5	125	58-151	
Carbon disulfide	ug/L	10	8.6	86	49-148	
Carbon tetrachloride	ug/L	10	10.4	104	62-137	
Chlorobenzene	ug/L	10	9.6	96	81-113	
Chloroethane	ug/L	10	8.1	81	65-119	
Chloroform	ug/L	10	10.5	105	76-118	
Chloromethane	ug/L	10	7.3	73	40-132	
cis-1,2-Dichloroethene	ug/L	10	10.9	109	80-119	
cis-1,3-Dichloropropene	ug/L	10	9.8	98	75-122	
Dibromochloromethane	ug/L	10	9.9	99	72-124	
Dibromomethane	ug/L	10	10.2	102	79-121	
Dichlorodifluoromethane	ug/L	10	5.7	57	11-156	
Ethylbenzene	ug/L	10	9.6	96	82-115	
Hexachloro-1,3-butadiene	ug/L	10	9.9	99	72-139	
Isopropylbenzene (Cumene)	ug/L	10	8.8	88	69-103	
Methyl-tert-butyl ether	ug/L	10	10.2	102	65-113	
Methylene chloride	ug/L	10	10.2	102	76-124	
n-Butylbenzene	ug/L	10	9.7	97	77-121	
n-Propylbenzene	ug/L	10	9.8	98	79-116	
Naphthalene	ug/L	10	9.1J	91	66-132	
p-Isopropyltoluene	ug/L	10	9.4	94	77-114	
sec-Butylbenzene	ug/L	10	9.7	97	80-119	
Styrene	ug/L	10	9.4	94	81-115	
tert-Butylbenzene	ug/L	10	9.7	97	77-121	
Tetrachloroethene	ug/L	10	10.0	100	73-122	
Toluene	ug/L	10	10.1	101	82-114	
trans-1,2-Dichloroethene	ug/L	10	11.2	112	75-122	
trans-1,3-Dichloropropene	ug/L	10	8.4	84	66-114	
Trichloroethene	ug/L	10	10.3	103	78-119	
Trichlorofluoromethane	ug/L	10	10.7	107	71-120	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 458209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	9.1	91	67-139	
Xylene (Total)	ug/L	30	30.0	100	81-116	
1,2-Dichloroethane-d4 (S)	%			106	81-121	
4-Bromofluorobenzene (S)	%			99	87-115	
Dibromofluoromethane (S)	%			107	87-113	
Toluene-d8 (S)	%			101	89-111	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20159 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450029, 6055450031

METHOD BLANK: 458902 | Matrix: Water
Associated Lab Samples: 6055450029, 6055450031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/21/09 15:38	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/21/09 15:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/21/09 15:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/21/09 15:38	
1,1-Dichloroethane	ug/L	ND	1.0	03/21/09 15:38	
1,1-Dichloroethene	ug/L	ND	1.0	03/21/09 15:38	
1,1-Dichloropropene	ug/L	ND	1.0	03/21/09 15:38	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/21/09 15:38	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/21/09 15:38	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/21/09 15:38	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/21/09 15:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/21/09 15:38	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/21/09 15:38	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/21/09 15:38	
1,2-Dichloroethane	ug/L	ND	1.0	03/21/09 15:38	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/21/09 15:38	
1,2-Dichloropropane	ug/L	ND	1.0	03/21/09 15:38	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/21/09 15:38	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/21/09 15:38	
1,3-Dichloropropane	ug/L	ND	1.0	03/21/09 15:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/21/09 15:38	
2,2-Dichloropropane	ug/L	ND	1.0	03/21/09 15:38	
2-Butanone (MEK)	ug/L	ND	10.0	03/21/09 15:38	
2-Chlorotoluene	ug/L	ND	1.0	03/21/09 15:38	
2-Hexanone	ug/L	ND	10.0	03/21/09 15:38	
4-Chlorotoluene	ug/L	ND	1.0	03/21/09 15:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/21/09 15:38	
Acetone	ug/L	ND	10.0	03/21/09 15:38	
Benzene	ug/L	ND	1.0	03/21/09 15:38	
Bromobenzene	ug/L	ND	1.0	03/21/09 15:38	
Bromochloromethane	ug/L	ND	1.0	03/21/09 15:38	
Bromodichloromethane	ug/L	ND	1.0	03/21/09 15:38	
Bromoform	ug/L	ND	1.0	03/21/09 15:38	
Bromomethane	ug/L	ND	1.0	03/21/09 15:38	
Carbon disulfide	ug/L	ND	5.0	03/21/09 15:38	
Carbon tetrachloride	ug/L	ND	1.0	03/21/09 15:38	
Chlorobenzene	ug/L	ND	1.0	03/21/09 15:38	
Chloroethane	ug/L	ND	1.0	03/21/09 15:38	
Chloroform	ug/L	ND	1.0	03/21/09 15:38	
Chloromethane	ug/L	ND	1.0	03/21/09 15:38	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/21/09 15:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/21/09 15:38	
Dibromochloromethane	ug/L	ND	1.0	03/21/09 15:38	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 458902 Matrix: Water

Associated Lab Samples: 6055450029, 6055450031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/21/09 15:38	
Dichlorodifluoromethane	ug/L	ND	1.0	03/21/09 15:38	
Ethylbenzene	ug/L	ND	1.0	03/21/09 15:38	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/21/09 15:38	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/21/09 15:38	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/21/09 15:38	
Methylene chloride	ug/L	ND	1.0	03/21/09 15:38	
n-Butylbenzene	ug/L	ND	1.0	03/21/09 15:38	
n-Propylbenzene	ug/L	ND	1.0	03/21/09 15:38	
Naphthalene	ug/L	ND	10.0	03/21/09 15:38	
p-Isopropyltoluene	ug/L	ND	1.0	03/21/09 15:38	
sec-Butylbenzene	ug/L	ND	1.0	03/21/09 15:38	
Styrene	ug/L	ND	1.0	03/21/09 15:38	
tert-Butylbenzene	ug/L	ND	1.0	03/21/09 15:38	
Tetrachloroethene	ug/L	ND	1.0	03/21/09 15:38	
Toluene	ug/L	ND	1.0	03/21/09 15:38	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/21/09 15:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/21/09 15:38	
Trichloroethene	ug/L	ND	1.0	03/21/09 15:38	
Trichlorofluoromethane	ug/L	ND	1.0	03/21/09 15:38	
Vinyl chloride	ug/L	ND	1.0	03/21/09 15:38	
Xylene (Total)	ug/L	ND	3.0	03/21/09 15:38	
1,2-Dichloroethane-d4 (S)	%	107	81-121	03/21/09 15:38	
4-Bromofluorobenzene (S)	%	100	87-115	03/21/09 15:38	
Dibromofluoromethane (S)	%	109	87-113	03/21/09 15:38	
Toluene-d8 (S)	%	107	89-111	03/21/09 15:38	

LABORATORY CONTROL SAMPLE: 458903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.6	86	75-121	
1,1,1-Trichloroethane	ug/L	10	10.4	104	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	8.5	85	73-128	
1,1,2-Trichloroethane	ug/L	10	8.5	85	83-125	
1,1-Dichloroethane	ug/L	10	10.0	100	79-115	
1,1-Dichloroethene	ug/L	10	11.1	111	76-122	
1,1-Dichloropropene	ug/L	10	10	100	80-119	
1,2,3-Trichlorobenzene	ug/L	10	8.2	82	70-138	
1,2,3-Trichloropropane	ug/L	10	8.7	87	74-129	
1,2,4-Trichlorobenzene	ug/L	10	8.2	82	72-131	
1,2,4-Trimethylbenzene	ug/L	10	10.1	101	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	8.7	87	61-139	
1,2-Dibromoethane (EDB)	ug/L	10	8.5	85	80-124	
1,2-Dichlorobenzene	ug/L	10	9.2	92	82-113	
1,2-Dichloroethane	ug/L	10	10.1	101	78-118	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 458903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	21.3	106	79-120	
1,2-Dichloropropane	ug/L	10	9.9	99	83-117	
1,3,5-Trimethylbenzene	ug/L	10	9.9	99	79-116	
1,3-Dichlorobenzene	ug/L	10	9.4	94	82-112	
1,3-Dichloropropane	ug/L	10	8.3	83	82-121	
1,4-Dichlorobenzene	ug/L	10	9.0	90	81-111	
2,2-Dichloropropane	ug/L	10	9.7	97	55-139	
2-Butanone (MEK)	ug/L	25	21.5	86	61-136	
2-Chlorotoluene	ug/L	10	9.8	98	81-115	
2-Hexanone	ug/L	25	21.1	84	65-137	
4-Chlorotoluene	ug/L	10	9.6	96	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	23.0	92	65-133	
Acetone	ug/L	25	24.4	98	58-126	
Benzene	ug/L	10	9.7	97	81-114	
Bromobenzene	ug/L	10	9.6	96	84-113	
Bromochloromethane	ug/L	10	10.4	104	79-120	
Bromodichloromethane	ug/L	10	9.9	99	75-119	
Bromoform	ug/L	10	7.9	79	66-132	
Bromomethane	ug/L	10	12.0	120	58-151	
Carbon disulfide	ug/L	10	9.3	93	49-148	
Carbon tetrachloride	ug/L	10	10.2	102	62-137	
Chlorobenzene	ug/L	10	9.2	92	81-113	
Chloroethane	ug/L	10	13.2	132	65-119	L3
Chloroform	ug/L	10	10.3	103	76-118	
Chloromethane	ug/L	10	9.5	95	40-132	
cis-1,2-Dichloroethene	ug/L	10	10.3	103	80-119	
cis-1,3-Dichloropropene	ug/L	10	9.3	93	75-122	
Dibromochloromethane	ug/L	10	8.6	86	72-124	
Dibromomethane	ug/L	10	9.6	96	79-121	
Dichlorodifluoromethane	ug/L	10	8.8	88	11-156	
Ethylbenzene	ug/L	10	9.5	95	82-115	
Hexachloro-1,3-butadiene	ug/L	10	9.8	98	72-139	
Isopropylbenzene (Cumene)	ug/L	10	8.7	87	69-103	
Methyl-tert-butyl ether	ug/L	10	9.0	90	65-113	
Methylene chloride	ug/L	10	11.8	118	76-124	
n-Butylbenzene	ug/L	10	9.6	96	77-121	
n-Propylbenzene	ug/L	10	9.7	97	79-116	
Naphthalene	ug/L	10	7.6J	76	66-132	
p-Isopropyltoluene	ug/L	10	9.5	95	77-114	
sec-Butylbenzene	ug/L	10	9.7	97	80-119	
Styrene	ug/L	10	9.2	92	81-115	
tert-Butylbenzene	ug/L	10	9.9	99	77-121	
Tetrachloroethene	ug/L	10	10.3	103	73-122	
Toluene	ug/L	10	10.7	107	82-114	
trans-1,2-Dichloroethene	ug/L	10	11.0	110	75-122	
trans-1,3-Dichloropropene	ug/L	10	7.5	75	66-114	
Trichloroethene	ug/L	10	10.1	101	78-119	
Trichlorofluoromethane	ug/L	10	10.8	108	71-120	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 458903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	11.0	110	67-139	
Xylene (Total)	ug/L	30	30.1	100	81-116	
1,2-Dichloroethane-d4 (S)	%			103	81-121	
4-Bromofluorobenzene (S)	%			101	87-115	
Dibromofluoromethane (S)	%			106	87-113	
Toluene-d8 (S)	%			107	89-111	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

QC Batch: MSV/20181
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6055450034

METHOD BLANK: 459227
Matrix: Water
Associated Lab Samples: 6055450034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/23/09 15:24	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/23/09 15:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/23/09 15:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/23/09 15:24	
1,1-Dichloroethane	ug/L	ND	1.0	03/23/09 15:24	
1,1-Dichloroethene	ug/L	ND	1.0	03/23/09 15:24	
1,1-Dichloropropene	ug/L	ND	1.0	03/23/09 15:24	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/23/09 15:24	
1,2,3-Trichloropropane	ug/L	ND	2.5	03/23/09 15:24	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/23/09 15:24	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	03/23/09 15:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	03/23/09 15:24	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/23/09 15:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/23/09 15:24	
1,2-Dichloroethane	ug/L	ND	1.0	03/23/09 15:24	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	03/23/09 15:24	
1,2-Dichloropropane	ug/L	ND	1.0	03/23/09 15:24	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	03/23/09 15:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/23/09 15:24	
1,3-Dichloropropane	ug/L	ND	1.0	03/23/09 15:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/23/09 15:24	
2,2-Dichloropropane	ug/L	ND	1.0	03/23/09 15:24	
2-Butanone (MEK)	ug/L	ND	10.0	03/23/09 15:24	
2-Chlorotoluene	ug/L	ND	1.0	03/23/09 15:24	
2-Hexanone	ug/L	ND	10.0	03/23/09 15:24	
4-Chlorotoluene	ug/L	ND	1.0	03/23/09 15:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/23/09 15:24	
Acetone	ug/L	ND	10.0	03/23/09 15:24	
Benzene	ug/L	ND	1.0	03/23/09 15:24	
Bromobenzene	ug/L	ND	1.0	03/23/09 15:24	
Bromochloromethane	ug/L	ND	1.0	03/23/09 15:24	
Bromodichloromethane	ug/L	ND	1.0	03/23/09 15:24	
Bromoform	ug/L	ND	1.0	03/23/09 15:24	
Bromomethane	ug/L	ND	1.0	03/23/09 15:24	
Carbon disulfide	ug/L	ND	5.0	03/23/09 15:24	
Carbon tetrachloride	ug/L	ND	1.0	03/23/09 15:24	
Chlorobenzene	ug/L	ND	1.0	03/23/09 15:24	
Chloroethane	ug/L	ND	1.0	03/23/09 15:24	
Chloroform	ug/L	ND	1.0	03/23/09 15:24	
Chloromethane	ug/L	ND	1.0	03/23/09 15:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/23/09 15:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/23/09 15:24	
Dibromochloromethane	ug/L	ND	1.0	03/23/09 15:24	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

METHOD BLANK: 459227 Matrix: Water

Associated Lab Samples: 6055450034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/23/09 15:24	
Dichlorodifluoromethane	ug/L	ND	1.0	03/23/09 15:24	
Ethylbenzene	ug/L	ND	1.0	03/23/09 15:24	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/23/09 15:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	03/23/09 15:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/23/09 15:24	
Methylene chloride	ug/L	ND	1.0	03/23/09 15:24	
n-Butylbenzene	ug/L	ND	1.0	03/23/09 15:24	
n-Propylbenzene	ug/L	ND	1.0	03/23/09 15:24	
Naphthalene	ug/L	ND	10.0	03/23/09 15:24	
p-Isopropyltoluene	ug/L	ND	1.0	03/23/09 15:24	
sec-Butylbenzene	ug/L	ND	1.0	03/23/09 15:24	
Styrene	ug/L	ND	1.0	03/23/09 15:24	
tert-Butylbenzene	ug/L	ND	1.0	03/23/09 15:24	
Tetrachloroethene	ug/L	ND	1.0	03/23/09 15:24	
Toluene	ug/L	ND	1.0	03/23/09 15:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/23/09 15:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/23/09 15:24	
Trichloroethene	ug/L	ND	1.0	03/23/09 15:24	
Trichlorofluoromethane	ug/L	ND	1.0	03/23/09 15:24	
Vinyl chloride	ug/L	ND	1.0	03/23/09 15:24	
Xylene (Total)	ug/L	ND	3.0	03/23/09 15:24	
1,2-Dichloroethane-d4 (S)	%	104	81-121	03/23/09 15:24	
4-Bromofluorobenzene (S)	%	105	87-115	03/23/09 15:24	
Dibromofluoromethane (S)	%	94	87-113	03/23/09 15:24	
Toluene-d8 (S)	%	100	89-111	03/23/09 15:24	

LABORATORY CONTROL SAMPLE: 459228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.0	80	75-121	
1,1,1-Trichloroethane	ug/L	10	11.4	114	73-120	
1,1,2,2-Tetrachloroethane	ug/L	10	9.8	98	73-128	
1,1,2-Trichloroethane	ug/L	10	10.9	109	83-125	
1,1-Dichloroethane	ug/L	10	9.8	98	79-115	
1,1-Dichloroethene	ug/L	10	10.7	107	76-122	
1,1-Dichloropropene	ug/L	10	10.9	109	80-119	
1,2,3-Trichlorobenzene	ug/L	10	10.2	102	70-138	
1,2,3-Trichloropropane	ug/L	10	10.8	108	74-129	
1,2,4-Trichlorobenzene	ug/L	10	9.9	99	72-131	
1,2,4-Trimethylbenzene	ug/L	10	10.9	109	78-123	
1,2-Dibromo-3-chloropropane	ug/L	10	8.9	89	61-139	
1,2-Dibromoethane (EDB)	ug/L	10	8.1	81	80-124	
1,2-Dichlorobenzene	ug/L	10	11.3	113	82-113	
1,2-Dichloroethane	ug/L	10	10.8	108	78-118	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 459228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	22.5	112	79-120	
1,2-Dichloropropane	ug/L	10	9.1	91	83-117	
1,3,5-Trimethylbenzene	ug/L	10	10.6	106	79-116	
1,3-Dichlorobenzene	ug/L	10	10.4	104	82-112	
1,3-Dichloropropane	ug/L	10	10.8	108	82-121	
1,4-Dichlorobenzene	ug/L	10	10.6	106	81-111	
2,2-Dichloropropane	ug/L	10	12.4	124	55-139	
2-Butanone (MEK)	ug/L	25	25.7	103	61-136	
2-Chlorotoluene	ug/L	10	10	100	81-115	
2-Hexanone	ug/L	25	30.8	123	65-137	
4-Chlorotoluene	ug/L	10	9.7	97	81-111	
4-Methyl-2-pentanone (MIBK)	ug/L	25	26.2	105	65-133	
Acetone	ug/L	25	33.0	132	58-126	L3
Benzene	ug/L	10	10.1	101	81-114	
Bromobenzene	ug/L	10	10.5	105	84-113	
Bromochloromethane	ug/L	10	11.4	114	79-120	
Bromodichloromethane	ug/L	10	11.5	115	75-119	
Bromoform	ug/L	10	8.9	89	66-132	
Bromomethane	ug/L	10	12.7	127	58-151	
Carbon disulfide	ug/L	10	8.7	87	49-148	
Carbon tetrachloride	ug/L	10	9.2	92	62-137	
Chlorobenzene	ug/L	10	10.5	105	81-113	
Chloroethane	ug/L	10	8.0	80	65-119	
Chloroform	ug/L	10	10.1	101	76-118	
Chloromethane	ug/L	10	13.1	131	40-132	
cis-1,2-Dichloroethene	ug/L	10	11.7	117	80-119	
cis-1,3-Dichloropropene	ug/L	10	11.1	111	75-122	
Dibromochloromethane	ug/L	10	10.5	105	72-124	
Dibromomethane	ug/L	10	10.8	108	79-121	
Dichlorodifluoromethane	ug/L	10	7.4	74	11-156	
Ethylbenzene	ug/L	10	9.8	98	82-115	
Hexachloro-1,3-butadiene	ug/L	10	11.7	117	72-139	
Isopropylbenzene (Cumene)	ug/L	10	9.5	95	69-103	
Methyl-tert-butyl ether	ug/L	10	10.0	100	65-113	
Methylene chloride	ug/L	10	10.3	103	76-124	
n-Butylbenzene	ug/L	10	10.8	108	77-121	
n-Propylbenzene	ug/L	10	10.2	102	79-116	
Naphthalene	ug/L	10	9J	90	66-132	
p-Isopropyltoluene	ug/L	10	10.4	104	77-114	
sec-Butylbenzene	ug/L	10	10.6	106	80-119	
Styrene	ug/L	10	8.6	86	81-115	
tert-Butylbenzene	ug/L	10	10.4	104	77-121	
Tetrachloroethene	ug/L	10	10.9	109	73-122	
Toluene	ug/L	10	10.2	102	82-114	
trans-1,2-Dichloroethene	ug/L	10	10.7	107	75-122	
trans-1,3-Dichloropropene	ug/L	10	7.8	78	66-114	
Trichloroethene	ug/L	10	10.5	105	78-119	
Trichlorofluoromethane	ug/L	10	8.8	88	71-120	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6055450

LABORATORY CONTROL SAMPLE: 459228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	12.8	128	67-139	
Xylene (Total)	ug/L	30	29.8	99	81-116	
1,2-Dichloroethane-d4 (S)	%			99	81-121	
4-Bromofluorobenzene (S)	%			101	87-115	
Dibromofluoromethane (S)	%			96	87-113	
Toluene-d8 (S)	%			101	89-111	

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QUALIFIERS

Project: BRENNTAG
Pace Project No.: 6055450

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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

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

SAMPLE QUALIFIERS

Sample: 6055450005

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450006

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450009

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450016

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450026

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450031

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450032

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450033

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450034

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

Sample: 6055450036

[1] All vials received contained headspace greater than 6mm; proceed with analyses per client request.

BATCH QUALIFIERS

Batch: MSV/20060

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/20141

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALIFIERS

Project: BRENNTAG
Pace Project No.: 6055450

BATCH QUALIFIERS

Batch: MSV/20148

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/20159

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery was outside laboratory control limits.
S1	Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6055450001	DPT-GW-11C	EPA 5030B/8260	MSV/20060		
6055450002	DPT-GW-11B	EPA 5030B/8260	MSV/20060		
6055450003	DPT-GW-11A	EPA 5030B/8260	MSV/20060		
6055450004	DPT-GW-10C	EPA 5030B/8260	MSV/20066		
6055450005	DPT-GW-10B	EPA 5030B/8260	MSV/20066		
6055450006	DPT-GW-10A	EPA 5030B/8260	MSV/20066		
6055450007	DPT-GW-9C	EPA 5030B/8260	MSV/20066		
6055450008	DPT-GW-9B	EPA 5030B/8260	MSV/20066		
6055450009	DPT-GW-DUP1B	EPA 5030B/8260	MSV/20066		
6055450010	DPT-GW-9A	EPA 5030B/8260	MSV/20066		
6055450011	DPT-GW-8C	EPA 5030B/8260	MSV/20066		
6055450012	DPT-GW-8B	EPA 5030B/8260	MSV/20066		
6055450013	DPT-GW-8A	EPA 5030B/8260	MSV/20066		
6055450014	DPT-GW-7C	EPA 5030B/8260	MSV/20066		
6055450015	DPT-GW-7B	EPA 5030B/8260	MSV/20070		
6055450016	DPT-GW-7A	EPA 5030B/8260	MSV/20070		
6055450017	DPT-GW-6C	EPA 5030B/8260	MSV/20070		
6055450018	DPT-GW-6B	EPA 5030B/8260	MSV/20070		
6055450019	DPT-GW-6A	EPA 5030B/8260	MSV/20070		
6055450020	DPT-GW-5C	EPA 5030B/8260	MSV/20070		
6055450021	DPT-GW-DUP2C	EPA 5030B/8260	MSV/20070		
6055450022	DPT-GW-5B	EPA 5030B/8260	MSV/20070		
6055450023	DPT-GW-5A	EPA 5030B/8260	MSV/20070		
6055450024	DPT-GW-4C	EPA 5030B/8260	MSV/20070		
6055450025	DPT-GW-4B	EPA 5030B/8260	MSV/20070		
6055450026	DPT-GW-4A	EPA 5030B/8260	MSV/20070		
6055450027	DPT-GW-EB1	EPA 5030B/8260	MSV/20070		
6055450028	DPT-GW-3C	EPA 5030B/8260	MSV/20070		
6055450030	DPT-GW-3A	EPA 5030B/8260	MSV/20141		
6055450032	DPT-GW-2B	EPA 5030B/8260	MSV/20141		
6055450033	DPT-GW-2A	EPA 5030B/8260	MSV/20141		
6055450035	DPT-GW-1B	EPA 5030B/8260	MSV/20141		
6055450036	DPT-GW-1A	EPA 5030B/8260	MSV/20148		
6055450037	DPT-GW-EB2	EPA 5030B/8260	MSV/20148		
6055450038	TRIP BLANK	EPA 5030B/8260	MSV/20148		
6055450029	DPT-GW-3B	EPA 5030B/8260	MSV/20159		
6055450031	DPT-GW-2C	EPA 5030B/8260	MSV/20159		
6055450034	DPT-GW-1C	EPA 5030B/8260	MSV/20181		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

Company:	The Forrester Group
Address:	605 N BOONVILLE
	Springfield, MO 65806
Email To:	kris@forrestergroup.com
Phone:	(417) 864-6444 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	KRIS GAMBLE
Copy To:	
Purchase Order No.	14770000
Client Project ID:	Brenntag
Container Order Number:	8596

Section C — Invoice Information:

Attention:	KRIS GAMBLE
Company Name:	The Forrester Group
Address:	605 N BOONVILLE, Springfield, MO 658
Pace Quote Reference:	
Pace Project Manager:	Brown, Angie
Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency	
State / Location	Kansas

Requested Analyses Filtered (Y/N): Y/N

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: VOC 8260 WT	Residual Chlorine (Y/N)	6055450
1	DPT-GW-11C	WT	G	3/10/09	1315				3				X					X		001
2	DPT-GW-11B	WT	G	3/10/09	1325				3				X					X		002
3	DPT-GW-11A	WT	G	3/10/09	1345				3				X					X		003
4	DPT-GW-10C	WT	G	3/10/09	1425				3				X					X		004
5	DPT-GW-10B	WT	G	3/10/09	1430				3				X					X		005
6	DPT-GW-10A	WT	G	3/10/09	1440				3				X					X		006
7	DPT-GW-9C	WT	G	3/10/09	1535				3				X					X		007
8	DPT-GW-9B	WT	G	3/10/09	1545				3				X					X		008
9	DPT-GW-Dup1B	WT	G	3/10/09	1555				3				X					X		009
10	DPT-GW-9A	WT	G	3/10/09	1600				3				X					X		010
11	DPT-GW-8C	WT	G	3/10/09	1620				3				X					X		011
12	DPT-GW-8B	WT	G	3/10/09	1635				3				X					X		012

(Analyses Test: 360694)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / TFG	3-11-09	1700		3/11/09	2030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kris Gamble					
SIGNATURE of SAMPLER:	Kris Gamble	DATE Signed: 3-11-09				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

Company:	The Forrester Group
Address:	605 N BOONVILLE
	Springfield, MO 65806
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Phone: (417) 864-6444	Fax:
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Pace Project Manager:	Brown, Angie
Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency:

State / Location: Kansas

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	VOC 8260 WT	Residual Chlorine (Y/N)	6055450	
1	DPT-GW-8A	WT	G	3/11/09	1645				3				X						x		3(DGAA)	013
2	DPT-GW-7C	WT	G	3/11/09	845				9				X						x	MS/MSD	9(DGAA)	014
3	DPT-GW-7B	WT	G	3/11/09	900				3				X						x		3(DGAA)	015
4	DPT-GW-7A	WT	G	3/11/09	910				3				X						x			016
5	DPT-GW-6C	WT	G	3/11/09	930				3				X						x			017
6	DPT-GW-6B	WT	G	3/11/09	1010				3				X						x			018
7	DPT-GW-6 KG A	WT	G	3/11/09	1020				3				X						x			019
8	DPT-GW-5C	WT	G	3/11/09	1055				3				X						x			020
9	DPT-GW-Dup2C	WT	G	3/11/09	1105				3				X						x			021
10	DPT-GW-5B	WT	G	3/11/09	1110				9				X						x	MS/MSD	9(DGAA)	022
11	DPT-GW-5A	WT	G	3/11/09	1125				3				X						x		3(DGAA)	023
12	DPT-GW-4C	WT	G	3/11/09	1145				3				X						x			024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / TFG	3-11-09	1700	[illegible]	3/11/09	7030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble — DATE Signed: 3-11-09

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Requested Due Date/TAT:	10 Day (Default)

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Purchase Order No.	14770000
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Pace Project Manager:	Brown, Angie
Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency	
State / Location	Kansas

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC 8260 WT	Residual Chlorine (Y/N)	6055450
1	DPT-GW-4B	WT	G	3/11/09	1200				3				X						X		025
2	DPT-GW-4A	WT	G	3/11/09	1205				3				X						X		026
3	DPT-GW-EB1	WT	G	3/11/09	1310				3				X						X		027
4	DPT-GW-3C	WT	G	3/11/09	1320				3				X						X		028
5	DPT-GW-3B	WT	G	3/11/09	1335				3				X						X		029
6	DPT-GW-3A	WT	G	3/11/09	1345				3				X						X		030
7	DPT-GW-2C	WT	G	3/11/09	1435				3				X						X		031
8	DPT-GW-2B	WT	G	3/11/09	1445				3				X						X		032
9	DPT-GW-2A	WT	G	3/11/09	1455				3				X						X		033
10	DPT-GW-1C	WT	G	3/11/09	1515				3				X						X		034
11	DPT-GW-2B	WT	G	3/11/09	1520				3				X						X		035
12	DPT-GW-1A	WT	G	3/11/09	1530				3				X						X		036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / TFG	3-11-09	1700	[signature]	3/11/09	2030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Kris Gamble		
SIGNATURE of SAMPLER:	Kris Gamble	DATE Signed:	3-11-09

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Regulatory Agency:

State / Location: Kansas

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1	DPT-GW-EB2	WT	G	3-11-09	1545				3				X						X			3/10/09 (A)								037
2	Trip Blank (one set per cooler)	WT	G										X						X			3/10/09								038
3	Temp Blank (one per cooler)	WT	G															K	X	X										
4		WT																	X											
5		WT																	X											
6		WT																	X											
7		WT																	X											
8		WT																	X											
9		WT																	X											
10		WT																	X											
11		WT																	X											
12		WT																	X											

Delete - KG

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Kris Gamble / TFG	3-11-09	1700	[signature]	3/11/09	2030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble

DATE Signed: 3-11-09

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Sample Condition Upon Receipt

Client Name: Forrester Project # 60555450

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other EET

Tracking #:

Optional Proj Due Date: 3/24/09
Proj Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foams Bremtag

Thermometer Used (T-142) T-168 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.6 ~~Biological Tissue is Frozen~~: Yes No

Date and Initials of person examining contents: 3/12/09 WS

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14. 1of3 = 9A, 8A, 3B, 1B
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15. 2of3 = 9B,
Trip Blank Present:	☑Yes ☐No ☐N/A	16. 3of3 = 10B, 10A, DUP 1B, 7A, 4A, 2C, 2B, 2A, 1C, 1A
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased) 012609-3		

WS

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: 3/12 4:00 Kris → log samples; waiting for instructions

akb

Project Manager Review: Date: 3/16/09

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

REPORT FOR LEVEL 2 DATA VERIFICATION

PROJECT IDENTIFICATION

Project Name: Brenntag-Wichita, KS
Laboratory: Pace Analytical, Lanexa, KS
Laboratory Project ID (SDG): 6055450
Sample Collection Dates: 13/11/2009
Sample Analysis Dates: 03/16/2009-03/21/2009
Sample Matrix: Groundwater
Analytical Fractions: ☒ VOC ☐ SVOC ☐ PEST/PCB ☐ TPH
8260S VOCS
Samples Analyzed: See attached list
Validated By: Sara Garretson, Associate — Sara Garretson 03/25/09
Name, Title — Signature, Date

SUMMARY

Item #	Review Item	Acceptable Yes	Acceptable No	Review Tasks
1.	Chain of Custody	X		Confirm relinquish & receipt signatures.
2.	Case Narrative	X		Review for items noted by the laboratory.
3.	Sample Condition	X		Confirm samples in acceptable condition and no discrepancies noted.
4.	Methods Requested	X		Confirm the following: 1. Analyses ordered match workplan. 2. Lab provided all methods ordered.
5.	Analytes Requested	X		Confirm the following: 1. Analytes ordered match workplan. 2. Lab provided all analytes ordered.
6.	Holding Times	X		Confirm laboratory performed extractions and analyses within method- required holding times.
7.	Blanks	X		Confirm the following: 1. No detections in laboratory (method) blanks. 2. No detections in trip blanks (*VOCs only*). 3. No detections in equipment blanks. 4. Equipment/Trip blanks collected at workplan-required frequency.
8.	Surrogates	X		Confirm the following (*organic analyses only*): 1. Surrogates analyzed. 2. Surrogate recovery within QC limits.
9.	MS/MSDs	X		Confirm the following: 1. MS/MSDs at frequency specified in workplan. 2. MS percent recovery within lab specified limits. 3. Organic MSD relative percent difference (RPD) within limits. 4. Inorganic lab replicate RPD within limits.
10.	LCS/LCSD	X		Confirm the following (low-level water analyses only): 1. LCS analyzed. 2. LCS/LCSD recovery within lab specified limits.

Item #	Review Item	Acceptable		Review Tasks
		Yes	No	
11.	Field Duplicates	N/A		Confirm: 1. Field duplicates collected at required frequency. 2. Field duplicate RPD within acceptable limits.

COMMENTS AND REQUIRED ACTIONS COMMENTS ARE PROVIDED FOR ANY ITEMS THAT NEED ADDITIONAL EXPLANATION (REFERENCED BY ITEM NUMBER ABOVE).

Item # **Comment**

3. The following sample vials were received by the laboratory containing headspace greater than 6mm. Laboratory proceeded with the analyte request per Forrester Group request.

Laboratory Sample ID	The Forrester Group Sample ID
6055450005	DPT-GW-10B
6055450006	DPT-GW-10A
6055450009	DPT-GW-DUP1B
6055450016	DPT-GW-7A
6055450026	DPT-GW-4A
6055450031	DPT-GW-2C
6055450032	DPT-GW-2B
6055450033	DPT-GW-2A
6055450034	DPT-GW-1C
6055450036	DPT-GW-1A

7. There was high recovery for Bromomethane (152ug/L>151ug/L) in Laboratory Control Sample 455811. However, Bromomethane is a common laboratory contaminant, therefore, no action was necessary.

9. There was high recovery for Acetone (132ug/L>126ug/L) in Laboratory Control sample 459228. However Acetone is a common laboratory contaminant, therefore, no action was necessary.

11. MS/MSD 456098 had high recovery for Trichloroethene (151ug/L>144ug/L).However, the parent sample contained greater than 4X the amount added to the sample as a spike. The concentration "masks" the spike amount, therefore, no action is necessary.

Duplicate Sample	Parent Sample
DPT-GW-DUP1B	DPT-GW-9B
DPT-GW-DUP2C	DPT-GW-5C

Acceptance criteria were 35% for water samples. Precision was acceptable.

OVERALL ASSESSMENT OF DATA

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	X		
2. Precision	X		
3. Accuracy	X		
4. Representativeness	X		
5. Comparability	X		
6. Completeness	X		
7. Suitability for Intended Use	X		

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

March 24, 2009

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: BRENNTAG
Pace Project No.: 6055450

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: BRENNTAG
Pace Project No.: 6055450

Kansas Certification IDs

Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX
Oklahoma Certification #: 9205/9935
Nevada Certification #: KS000212008A
Louisiana Certification #: 03055
Kansas/NELAP Certification #: E-10116
Iowa Certification #: 118
Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
A2LA Certification #: 2456.01

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Lenexa, KS 66219
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SAMPLE SUMMARY

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6055450001	DPT-GW-11C	Water	03/10/09 13:15	03/11/09 20:30
6055450002	DPT-GW-11B	Water	03/10/09 13:25	03/11/09 20:30
6055450003	DPT-GW-11A	Water	03/10/09 13:45	03/11/09 20:30
6055450004	DPT-GW-10C	Water	03/10/09 14:25	03/11/09 20:30
6055450005	DPT-GW-10B	Water	03/10/09 14:30	03/11/09 20:30
6055450006	DPT-GW-10A	Water	03/10/09 14:40	03/11/09 20:30
6055450007	DPT-GW-9C	Water	03/10/09 15:35	03/11/09 20:30
6055450008	DPT-GW-9B	Water	03/10/09 15:45	03/11/09 20:30
6055450009	DPT-GW-DUP1B	Water	03/10/09 15:55	03/11/09 20:30
6055450010	DPT-GW-9A	Water	03/10/09 16:00	03/11/09 20:30
6055450011	DPT-GW-8C	Water	03/10/09 16:20	03/11/09 20:30
6055450012	DPT-GW-8B	Water	03/10/09 16:35	03/11/09 20:30
6055450013	DPT-GW-8A	Water	03/10/09 16:45	03/11/09 20:30
6055450014	DPT-GW-7C	Water	03/11/09 08:45	03/11/09 20:30
6055450015	DPT-GW-7B	Water	03/11/09 09:00	03/11/09 20:30
6055450016	DPT-GW-7A	Water	03/11/09 09:10	03/11/09 20:30
6055450017	DPT-GW-6C	Water	03/11/09 09:30	03/11/09 20:30
6055450018	DPT-GW-6B	Water	03/11/09 10:10	03/11/09 20:30
6055450019	DPT-GW-6A	Water	03/11/09 10:20	03/11/09 20:30
6055450020	DPT-GW-5C	Water	03/11/09 10:55	03/11/09 20:30
6055450021	DPT-GW-DUP2C	Water	03/11/09 11:05	03/11/09 20:30
6055450022	DPT-GW-5B	Water	03/11/09 11:10	03/11/09 20:30
6055450023	DPT-GW-5A	Water	03/11/09 11:25	03/11/09 20:30
6055450024	DPT-GW-4C	Water	03/11/09 11:45	03/11/09 20:30
6055450025	DPT-GW-4B	Water	03/11/09 12:00	03/11/09 20:30
6055450026	DPT-GW-4A	Water	03/11/09 12:05	03/11/09 20:30
6055450027	DPT-GW-EB1	Water	03/11/09 13:10	03/11/09 20:30
6055450028	DPT-GW-3C	Water	03/11/09 13:20	03/11/09 20:30
6055450029	DPT-GW-3B	Water	03/11/09 13:35	03/11/09 20:30
6055450030	DPT-GW-3A	Water	03/11/09 13:45	03/11/09 20:30
6055450031	DPT-GW-2C	Water	03/11/09 14:35	03/11/09 20:30
6055450032	DPT-GW-2B	Water	03/11/09 14:45	03/11/09 20:30
6055450033	DPT-GW-2A	Water	03/11/09 14:55	03/11/09 20:30
6055450034	DPT-GW-1C	Water	03/11/09 15:15	03/11/09 20:30
6055450035	DPT-GW-1B	Water	03/11/09 15:20	03/11/09 20:30
6055450036	DPT-GW-1A	Water	03/11/09 15:30	03/11/09 20:30
6055450037	DPT-GW-EB2	Water	03/11/09 15:45	03/11/09 20:30

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(913)599-5665

SAMPLE SUMMARY

Project: BRENNTAG
Pace Project No.: 6055450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6055450038	TRIP BLANK	Water	03/11/09 00:00	03/11/09 20:30

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	The Forrester Group	Report To:	KRIS GAMBLE	Attention:	KRIS GAMBLE
Address:	605 N BOONVILLE	Copy To:		Company Name:	The Forrester Group
Springfield, MO 65806				Address:	605 N BOONVILLE, Springfield, MO 658
Email To:	kris@forrestergroup.com	Purchase Order No.	14770000	Pace Quote Reference:	
Phone:	(417) 864-6444 Fax:	Client Project ID:	Brenntag	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:	8596	Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency	State / Location
	Kansas

Requested Analyses Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC 8260 WT	Residual Chlorine (Y/N)	6055450
1	DPT-GW-11C	WT	G	3/10/09	1315				3				X						X		001
2	DPT-GW-11B	WT	G	3/10/09	1325				3				X						X		002
3	DPT-GW-11A	WT	G	3/10/09	1345				3				X						X		003
4	DPT-GW-10C	WT	G	3/10/09	1425				3				X						X		004
5	DPT-GW-10B	WT	G	3/10/09	1430				3				X						X		005
6	DPT-GW-10A	WT	G	3/10/09	1440				3				X						X		006
7	DPT-GW-9C	WT	G	3/10/09	1535				3				X						X		007
8	DPT-GW-9B	WT	G	3/10/09	1545				3				X						X		008
9	DPT-GW-Dup 1R	WT	G	3/10/09	1555				3				X						X		009
10	DPT-GW-9A	WT	G	3/10/09	1600				3				X						X		010
11	DPT-GW-8C	WT	G	3/10/09	1620				3				X						X		011
12	DPT-GW-8B	WT	G	3/10/09	1635				3				X						X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / TFG	3-11-09	1700		3/11/09	0830	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kris Gamble					
SIGNATURE of SAMPLER:	Kris Gamble	DATE Signed: 3-11-09				

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Page: 2 of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
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Address:	605 N BOONVILLE	Copy To:		Company Name:	The Forrester Group
Springfield, MO 65806				Address:	605 N BOONVILLE, Springfield, MO 658
Email To:	kris@forrestergroup.com	Purchase Order No.	14770000	Pace Quote Reference:	
Phone:	(417) 864-6444 Fax:	Client Project ID:	Brenntag	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:	8596	Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency

State / Location: Kansas

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC 8260 WT											Residual Chlorine (Y/N)	6055450	
1	DPT-GW-8A	WT	G	3/11/09	1645				3				X						X												3(DGAH)	013
2	DPT-GW-7C	WT	G	3/11/09	845				9				X						X			MS/MSD									9(DGAH)	014
3	DPT-GW-7B	WT	G	3/11/09	900				3				X						X												3(DGAH)	015
4	DPT-GW-7A	WT	G	3/11/09	910				3				X						X													016
5	DPT-GW-6C	WT	G	3/11/09	930				3				X						X													017
6	DPT-GW-6B	WT	G	3/11/09	1010				3				X						X													018
7	DPT-GW-6A	WT	G	3/11/09	1020				3				X						X													019
8	DPT-GW-5C	WT	G	3/11/09	1055				3				X						X													020
9	DPT-GW-Dup2C	WT	G	3/11/09	1105				3				X						X													021
10	DPT-GW-5B	WT	G	3/11/09	1110				9				X						X			MS/MSD									9(DGAH)	022
11	DPT-GW-5A	WT	G	3/11/09	1125				3				X						X												3(DGAH)	023
12	DPT-GW-4C	WT	G	3/11/09	1145				3				X						X													024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / JFG	3-11-09	1700	[illegible]	3/11/09	7030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble DATE Signed: 3-11-09

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 4

Section A — Required Client Information:

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	Springfield, MO 65806
Email To:	kris@forrestergroup.com
Phone:	(417) 864-6444 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	KRIS GAMBLE
Copy To:	
Purchase Order No.	14770000
Client Project ID:	Brenntag
Container Order Number:	8596

Section C — Invoice Information:

Attention:	KRIS GAMBLE
Company Name:	The Forrester Group
Address:	605 N BOONVILLE, Springfield, MO 6580
Pace Quote Reference:	
Pace Project Manager:	Brown, Angie
Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency:

State / Location: Kansas

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	VOC 8260 WT	Residual Chlorine (Y/N)	6055450
1	DPT-GW-4B	WT	G	3/11/09	1200				3				X						x		025
2	DPT-GW-4A	WT	G	3/11/09	1205				3				X						x		026
3	DPT-GW-EB1	WT	G	3/11/09	1310				3				X						x		027
4	DPT-GW-3C	WT	G	3/11/09	1320				3				X						x		028
5	DPT-GW-3B	WT	G	3/11/09	1335				3				X						x		029
6	DPT-GW-3A	WT	G	3/11/09	1345				3				X						x		030
7	DPT-GW-2C	WT	G	3/11/09	1435				3				X						x		031
8	DPT-GW-2B	WT	G	3/11/09	1445				3				X						x		032
9	DPT-GW-2A	WT	G	3/11/09	1455				3				X						x		033
10	DPT-GW-1C	WT	G	3/11/09	1515				3				X						x		034
11	DPT-GW-1B	WT	G	3/11/09	1520				3				X						x		035
12	DPT-GW-1A	WT	G	3/11/09	1530				3				X						x		036

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / TFG	3-11-09	1700		3/11/09	2030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble — DATE Signed: 3-11-09

TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Company:	The Forrester Group
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	Springfield, MO 65806
Email To:	kris@forrestergroup.com
Phone:	(417) 864-6444 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	KRIS GAMBLE
Copy To:	
Purchase Order No.	14770000
Client Project ID:	Brenntag
Container Order Number:	8596

Section C — Invoice Information:

Attention:	KRIS GAMBLE
Company Name:	The Forrester Group
Address:	605 N BOONVILLE, Springfield, MO 658
Pace Quote Reference:	
Pace Project Manager:	Brown, Angie
Pace Profile #:	PROFILE 1530 LINE 2

Regulatory Agency

State / Location: Kansas

Requested Analysis Filtered (Y/N): Analysis Test: VOC 8260 WT; Temperature

Preservatives: Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other

Residual Chlorine (Y/N)

6055450

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test	VOC 8260 WT	Temperature											Residual Chlorine (Y/N)	6055450
1	DPT-GW-ER2	WT	G	3-11-09	1545				3				X						X													037
2	Trip Blank (one set per cooler)	WT	G										X						X													038
3	Temp Blank (one per cooler)	WT	G															ICE		X												
4		WT																	X													
5		WT																	X													
6		WT																	X													
7		WT																	X													
8		WT																	X													
9		WT																	X													
10		WT																	X													
11		WT																	X													
12		WT																	X													

Delete - KS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Kris Gamble / TFG	3-11-09	1705	[signature]	3/19/09	2030	0.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble — DATE Signed: 3-11-09

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Appendix F

Report for Well Construction and Sampling, March 12, 2008

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

March 12, 2008

Mr. Chris Carey
Bureau of Environmental Remediation
Kansas Department of Health and Environment
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367

BRENNTAG REPORT FOR WELL CONSTRUCTION AND SAMPLING, BRENNTAG SOUTHWEST, INC., WICHITA, KANSAS

Dear Mr. Carey:

The Forrester Group has prepared this letter Report to summarize further environmental characterization of the Brenntag Southwest, Inc. (Brenntag) facility at 1520 North Barwise in Wichita, Kansas (Site). The scope of work included the installation of 6 groundwater monitoring wells (3 well pairs), and collection of groundwater samples following the completion of the remedial construction to monitor Chlorinated Volatile Organic Compounds (CVOC) concentrations. KDHE approved the Work Plan for Well Construction and Sampling on December 20, 2007.

SCOPE OF WORK PERFORMED

The groundwater monitoring wells were installed January 14-16, 2008. The following activities were performed:

1. Pre-Investigation Activities GSI Inc. of Wichita, KS was retained and a utility clearance was conducted with Kansas One-Call.

2. Monitoring Well Installation Six groundwater monitoring wells (2-inch diameter, PVC construction) were installed on Brenntag property. At each of three locations, one well was installed approximately 40 feet below land surface (bls) with 5-feet of screen from approximately 35 to 40 feet; and a second well was installed to a depth of approximately 25 feet with 10 feet of screen from approximately 15 to 25 feet. Well completion logs are provided in Appendix A. The Water Well Record Form WWC-5 for each of the monitoring wells installed are included in Appendix B.

   - The attached figure (Figure 1) shows the monitoring well locations. The locations were placed using the following rational:

     1. **Up gradient.** One well pair (MW-1s "shallow" and MW-1d "deep") was installed near the north boundary of the site to monitor groundwater entering the site.

     2. **Downgradient.** One well pair (MW-2s and MW-2d) was installed near the south boundary of the site to monitor groundwater leaving the site. This monitoring well pair was installed immediately adjacent to the Interim Remedial Measure for Soil excavation area.

     3. **Cross-gradient.** One well pair (MW-3s and MW-3d) was installed east of the Interim Remedial Measure for Soil excavation area to facilitate triangulation.

- Brenntag requested waivers from the KDHE-Bureau of Water for flush mount completions in high traffic areas and for wells in which less than 20 feet of grout was used as an annular seal. Waivers are included in Appendix B.

- After installation each well was developed by pumping the volume of water used to construct the well plus a minimum of 5 well volumes of water. Well development forms are provided in Appendix C.

3. Survey The new monitoring well locations and elevations were measured by a Kansas-registered land surveyor. These surveys were performed to a horizontal tolerance of 0.10 foot and a vertical tolerance of 0.01 foot. Vertical measurements were performed at ground surface level and at the top of the well casing.

4. Monitoring Well Sampling Monitoring wells were sampled to evaluate groundwater quality. The monitoring well sampling field notes are provided in Appendix D. The following work was performed.

   - The first of four rounds of water quality samples was performed on February 7, 2008. The remaining rounds are proposed to be collected on a quarterly basis.

   - Groundwater wells were sampled using a no-purge HydraSleeve® technique. HydraSleeve® samplers were deployed in the wells on January 30, 2008.

   - Groundwater samples were collected in laboratory supplied glassware, packaged on ice with a completed chain of custody and trip blank and submitted to the analytical laboratory by express courier for analysis of volatile organic compounds. The analytical laboratory was Pace Analytical Laboratory of Lenexa, KS. Laboratory samples were submitted for a two-week turnaround time.

5. Piezometer Sampling In the November 29, 2007 response to Work Plan letter KDHE recommended using PZ-1 as a groundwater elevation measuring point and collecting groundwater samples from PZ-3 since it is located immediately downgradient of the southwestern corner of the excavation conducted during the Interim Remedial Measure for Soil field activities.

   During the monitoring well installation event it was discovered that during a past addition to the shipping and receiving dock on the north side of the Brenntag facility, PZ-1 became covered, and is now inaccessible. PZ-2 was abandoned during well installation activities. The Water Well Plugging Record Form WWC-5P for PZ-2 is included in Appendix B.

   PZ-3 was sampled on February 7, 2008, representing shallow groundwater, using the "check-valve" method. A check-valve was attached to the end of new polyethylene tubing. This dedicated tubing and check valve was inserted into the piezometer into the screened interval. The tubing was hand-oscillated inside the piezometer to draw water into the tubing. A limited amount of water was purged to minimize suspended sediment. Groundwater samples were collected in laboratory supplied glassware, packaged on ice with a completed chain of custody and submitted to the analytical laboratory by express courier for analysis of volatile organic compounds. PZ-3 will be voluntarily sampled again during the second quarter groundwater monitoring event.

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

ANALYTICAL SUMMARY

The groundwater monitoring analytical results are provided in Appendix E. Tables 1 and 2 provide a summary of the results and a comparison of the results with the RSK Residential Groundwater Pathway values. A brief discussion of the analytical results is provided below.

- No groundwater analytical results exceeded the RSK values for Residential Groundwater in monitoring wells MW-1s and MW-1d.
- The groundwater analytical results for tetrachloroethene exceeded the RSK value for Residential Groundwater (0.005 mg/L) in monitoring wells MW-2s (0.103 mg/L), MW-3d (0.006 mg/L), MW-3s (0.0501 mg/L), and PZ-3 (0.117 mg/L).
- The groundwater analytical results for trichloroethene exceeded the RSK value for 3Residential Groundwater (0.005 mg/L) in monitoring wells MW-2d (0.0073 mg/L), MW-2s (0.0098 mg/L), MW-3s (0.0165 mg/L) and PZ-3 (0.0081 mg/L).

SCHEDULE AND REPORTING

The groundwater monitoring wells and PZ-3 are scheduled to be sampled during the month of May, 2008. KDHE will receive a notification of field activities at least 10 working days prior to the event. The remaining quarterly groundwater monitoring results will continue to be submitted to KDHE as an attachment to the quarterly progress reports due one month after the end of each calendar quarter.

If you have any questions or comments regarding this report, please call me at (417) 864-6444, extension 121, or Kris Gamble at extension 130.

Sincerely,

Robert M. Kick

Robert M. Kick, PG, CHMM
Principal

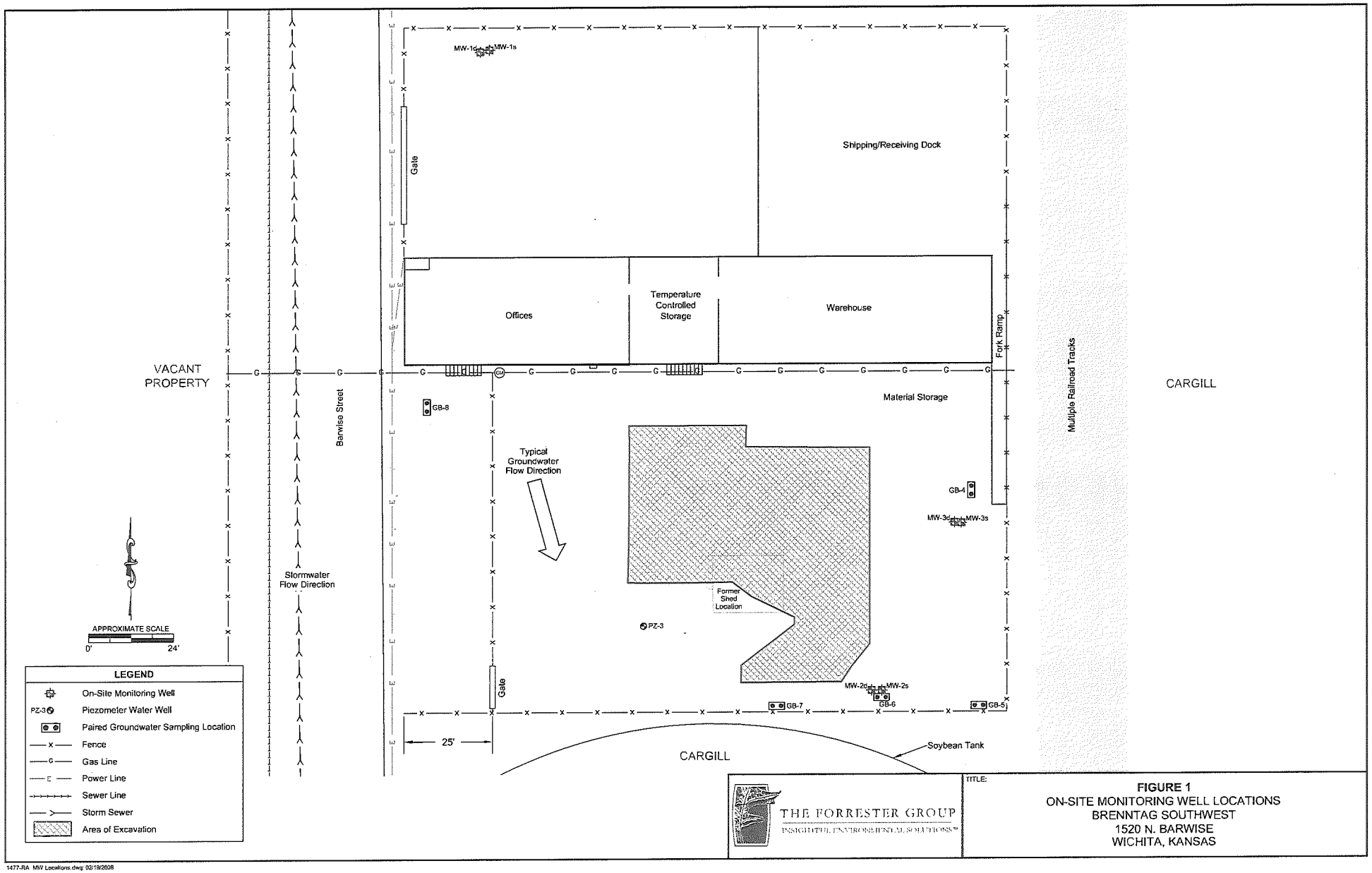
Copy to: Ray K. Forrester, The Forrester Group
Peter Ramaley, Brenntag, Inc

ROBERT M. KICK
LICENSED
556
KANSAS
GEOLOGIST

Robert M. Kick
3-12-08

Project Number 14770000

FIGURES



1477-RA MW Locations.dwg 02/19/2008

Project Number 14770000

TABLES

Table 1
Groundwater Monitoring
Analytical Data Summary
February 2008
Brenntag Southwest, Inc.
Wichita, KS

	Well ID	MW-1 d	MW-1 s	MW-2 d	MW-2 s / Blind Dup		MW-3 d	MW-3 s	PZ-3
Chemical Name	RSK for Residential Groundwater Pathway	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008
Acetone	0.26	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	--	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	0.0012	ND	ND	ND	ND	0.0016	ND	ND
Bromoform	0.08	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.004	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.82	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.021	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.022	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	--	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.009	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.089	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	ND	ND	ND	ND	0.0013	ND	ND
Chloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	0.0013	ND	ND	ND	ND	0.0019	ND	ND
1,2-Dibromoethane (EDB)	--	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.075	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.17	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	0.0074	0.0069	ND	ND	0.0014
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	--	0.0158	0.0022	0.0269	0.0539	0.0498	0.0175	0.0053	0.0079
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	0.0156	0.0022	0.0265	0.053	0.0491	0.0172	0.0053	0.0076
trans-1,2-Dichloroethene	0.1	0.0002 J	ND	0.00043 J	0.00094 J	0.00079 J	0.00032 J	ND	ND
1,2-Dichloropropane	0.005	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	--	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.003	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0007	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	0.0038	**0.103**	**0.0947**	**0.006**	**0.0501**	**0.117**
Toluene	1	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	0.002	0.002	**0.0073**	**0.0098**	**0.0091**	0.0047	**0.0165**	**0.0081**
Trichlorofluoromethane	--	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0004	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	--	ND	ND	ND	ND	ND	ND	ND	ND

All results reported in mg/L.
J - estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
ND - Not Detected at or above adjusted reporting limit.

Bolded results exceed RSK value.

Table 2
Groundwater Monitoring
Analytical Data - Detects Only
February 2008
Brenntag Southwest, Inc.
Wichita, KS

	Well ID	MW-1 d	MW-1 s	MW-2 d	MW-2 s / Blind Dup		MW-3 d	MW-3 s	PZ-3
Chemical Name	RSK for Residential Groundwater Pathway	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008
Bromodichloromethane	0.08	0.0012	ND	ND	ND	ND	0.0016	ND	ND
Chloroform	0.08	ND	ND	ND	ND	ND	0.0013	ND	ND
Dibromochloromethane	0.08	0.0013	ND	ND	ND	ND	0.0019	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	0.0074	0.0069	ND	ND	0.0014
1,2-Dichloroethene (Total)	--	0.0158	0.0022	0.0269	0.0539	0.0498	0.0175	0.0053	0.0079
cis-1,2-Dichloroethene	0.07	0.0156	0.0022	0.0265	0.053	0.0491	0.0172	0.0053	0.0076
trans-1,2-Dichloroethene	0.1	0.0002 J	ND	0.00043 J	0.00094 J	0.00079 J	0.00032 J	ND	ND
Tetrachloroethene	0.005	ND	ND	0.0038	**0.103**	**0.0947**	**0.006**	**0.0501**	**0.117**
Trichloroethene	0.005	0.002	0.002	**0.0073**	**0.0098**	**0.0091**	0.0047	**0.0165**	**0.0081**

All results reported in mg/L.
J - estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
ND - Not Detected at or above adjusted reporting limit.

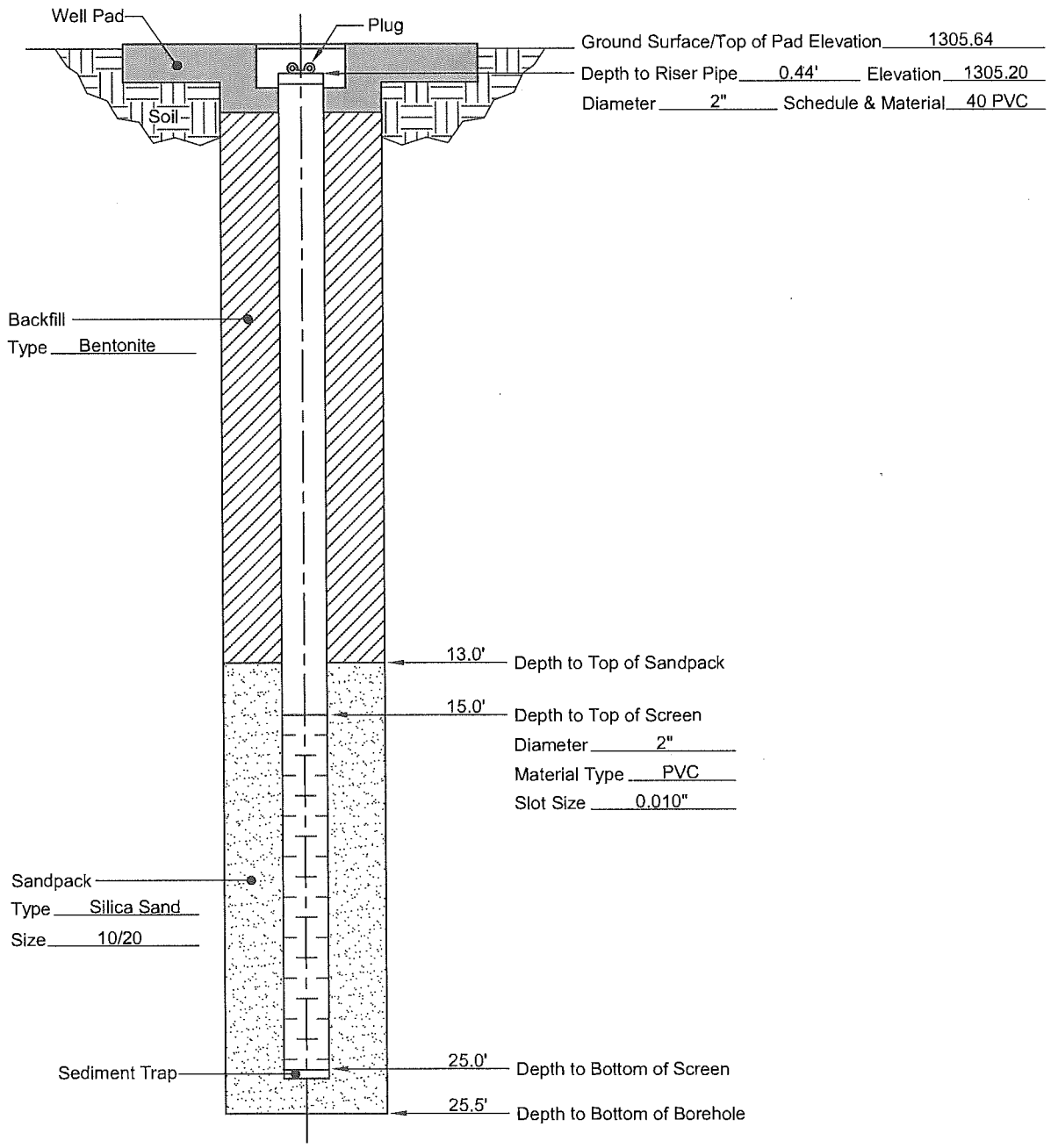
Bolded results exceed RSK value.

Project Number 14770000

APPENDIX A
WELL COMPETION LOGS

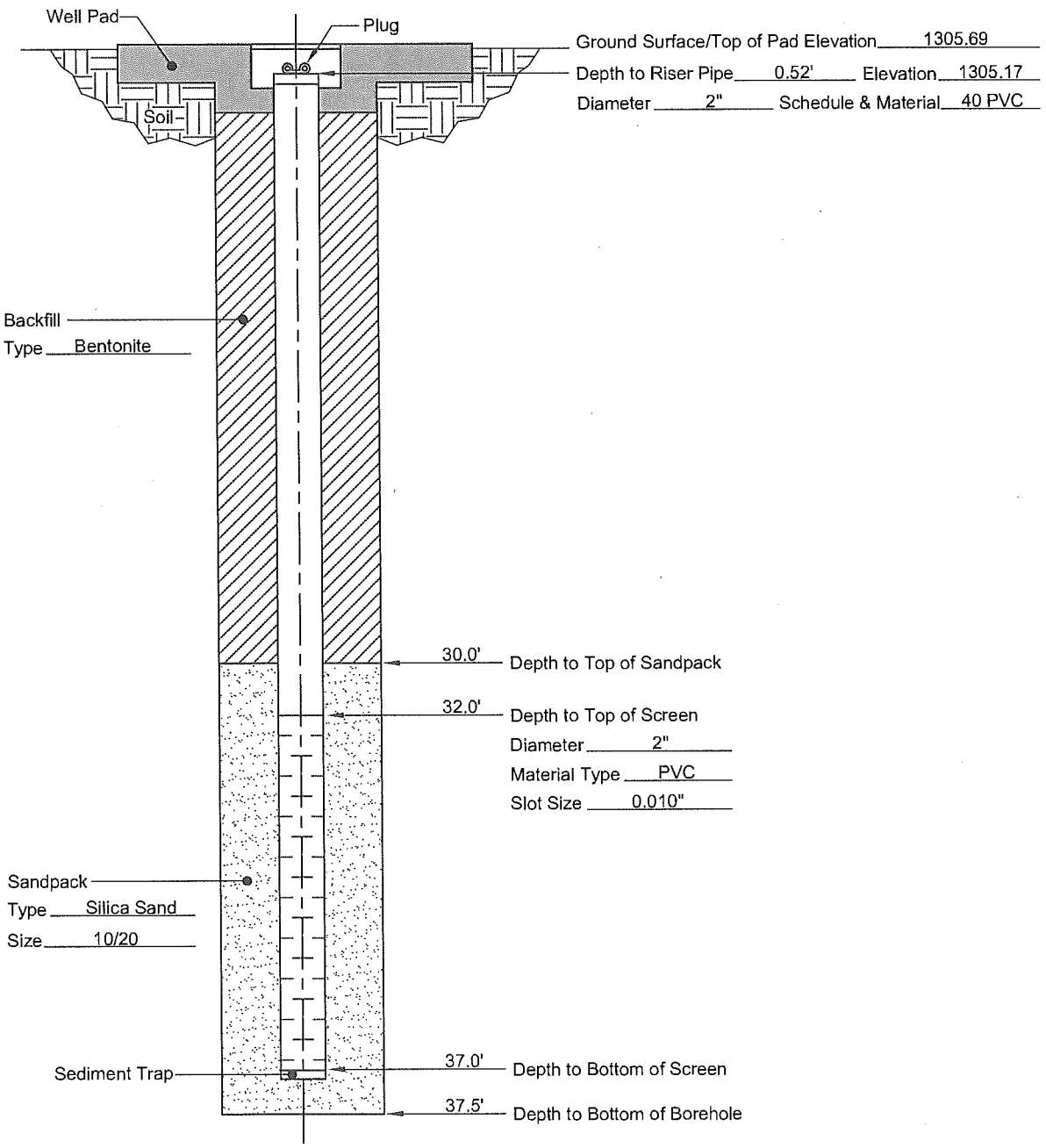
WELL COMPLETION LOG

FG Project Name: Brenntag	Well ID: **MW-1s**	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Kris Gamble	Date installed: January 14, 2008	
Drilling Company: GSI - Corey Lewis	Weather Conditions: Clear 40°	
Drilling Equipment: CME-75	Borehole Diameter: 8 Inches	
	Memo:	



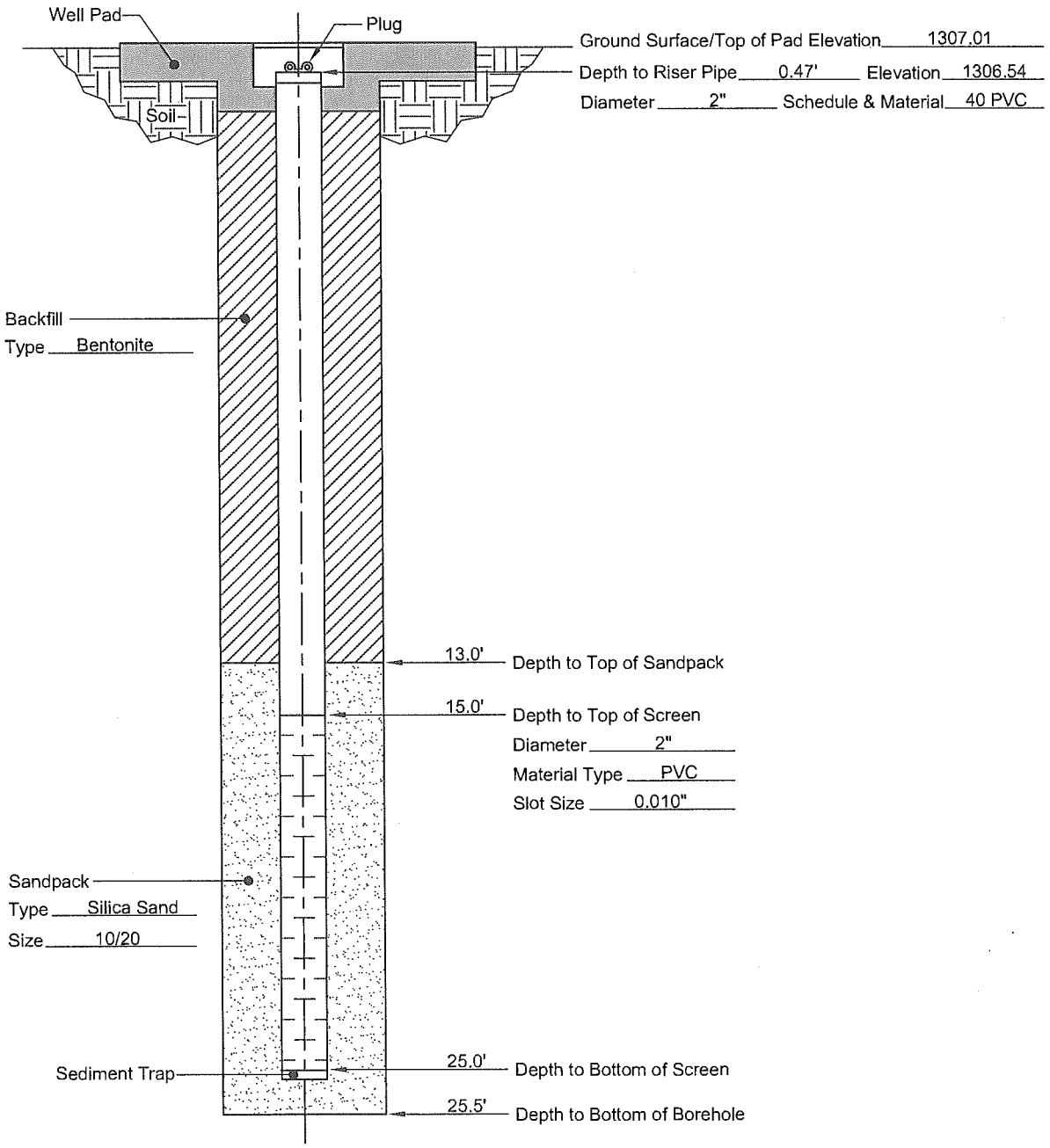
WELL COMPLETION LOG

FG Project Name: Brenntag	Well ID: **MW-1d**	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Kris Gamble	Date installed: January 14, 2008	
Drilling Company: GSI - Corey Lewis	Weather Conditions: Clear 35°	
Drilling Equipment: CME-75	Borehole Diameter: 8 Inches	
	Memo:	



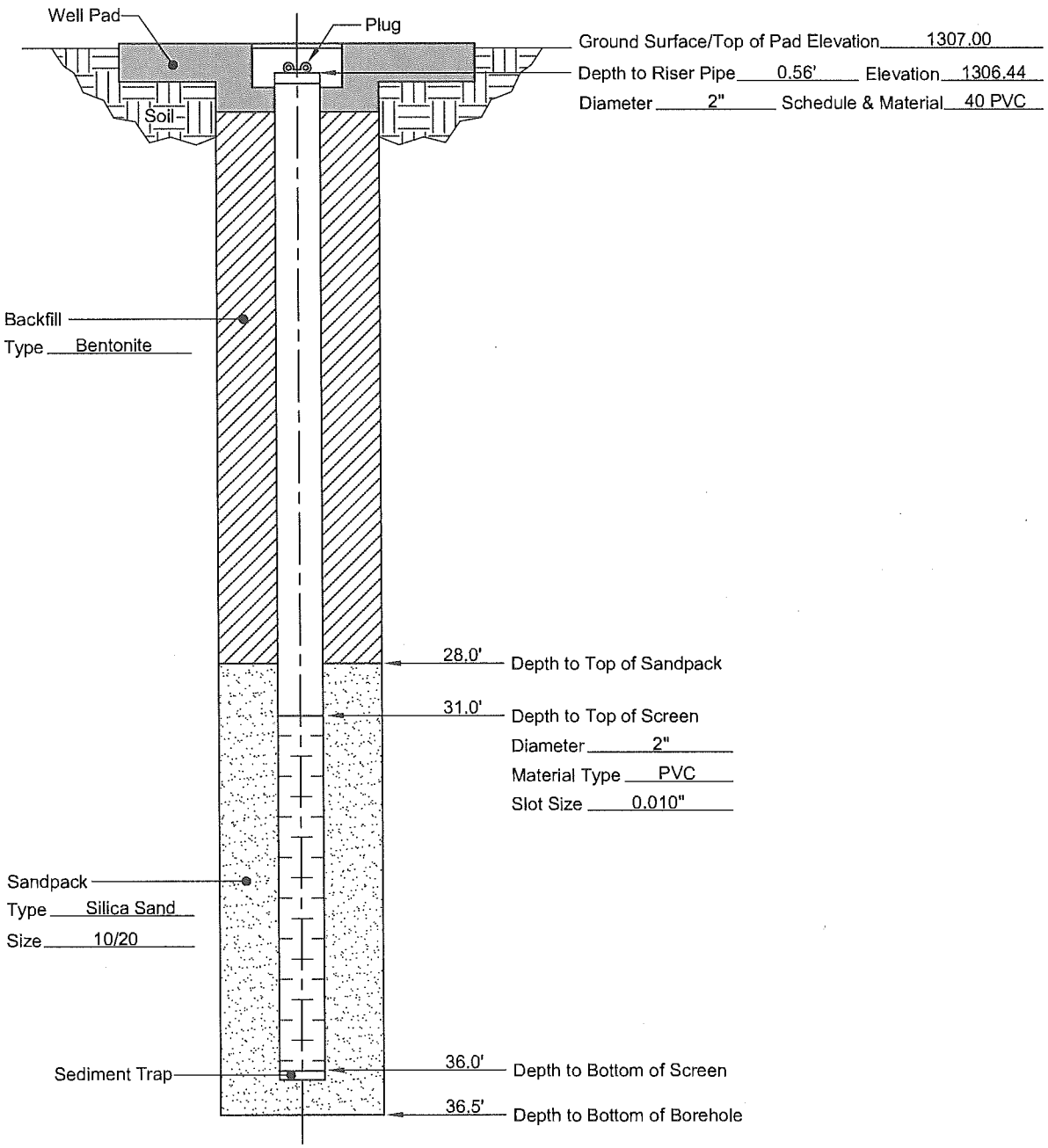
WELL COMPLETION LOG

FG Project Name: Brenntag	Well ID: **MW-2s**	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Kris Gamble	Date installed: January 15, 2008	
Drilling Company: GSI - Corey Lewis	Weather Conditions: Clear 30°	
Drilling Equipment: CME-75	Borehole Diameter: 8 Inches	
	Memo:	



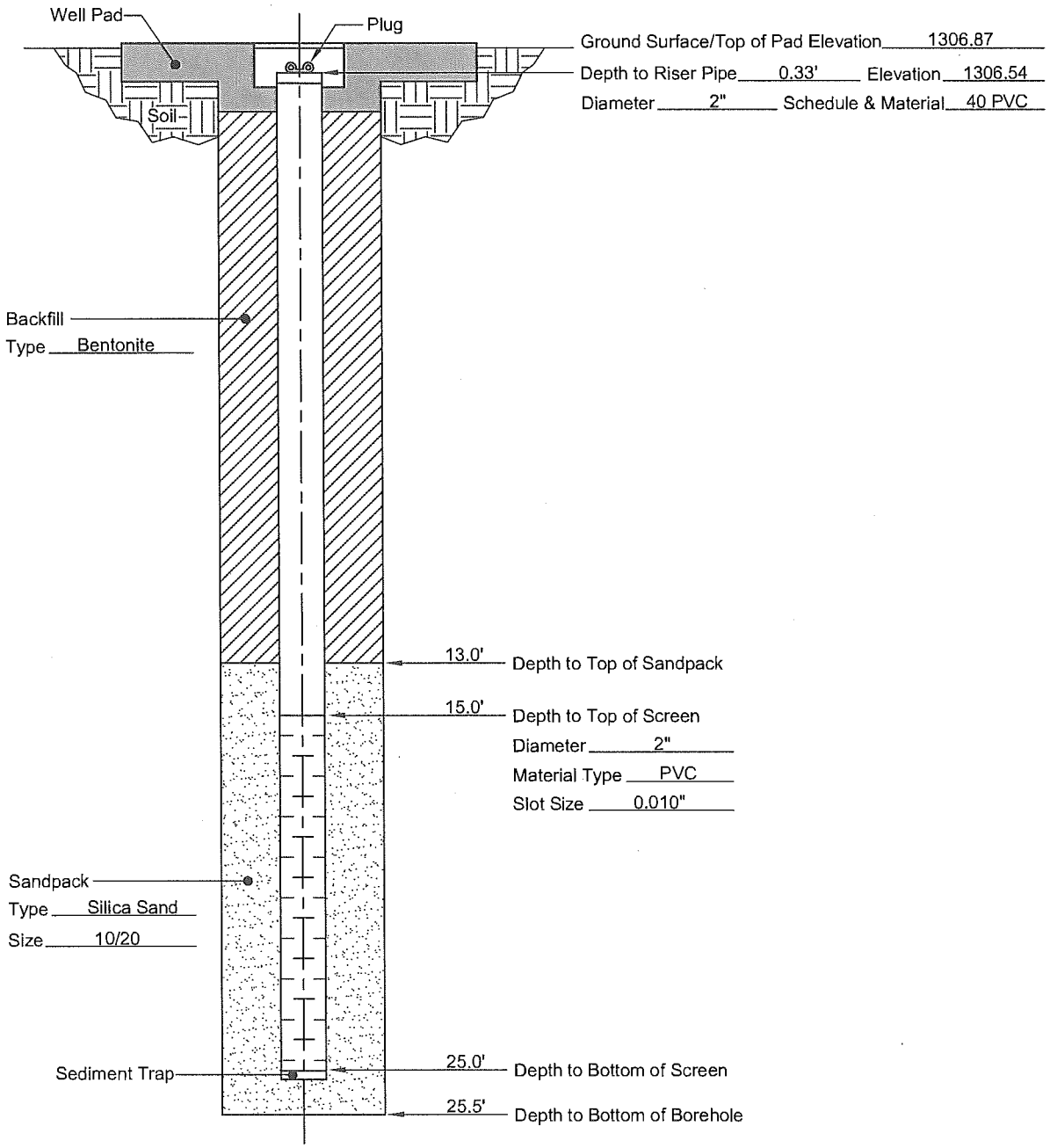
WELL COMPLETION LOG

FG Project Name: Brenntag	Well ID: **MW-2d**	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Kris Gamble	Date installed: January 14, 2008	
Drilling Company: GSI - Corey Lewis	Weather Conditions: Clear 38°	
Drilling Equipment: CME-75	Borehole Diameter: 8 Inches	
	Memo:	



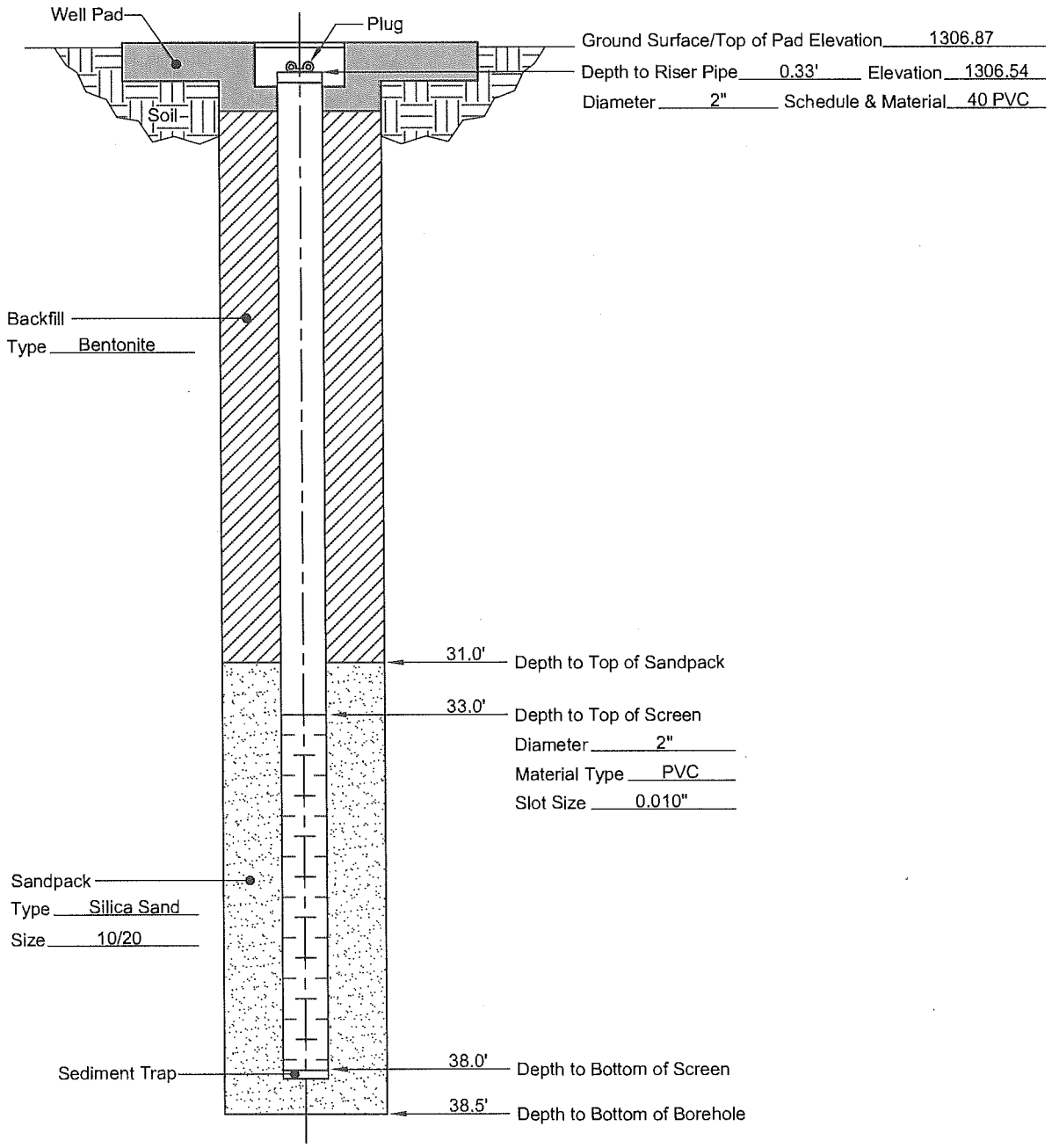
WELL COMPLETION LOG

FG Project Name: Brenntag	Well ID: **MW-3s**	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Kris Gamble	Date installed: January 15, 2008	
Drilling Company: GSI - Corey Lewis	Weather Conditions: Clear 45°	
Drilling Equipment: CME-75	Borehole Diameter: 8 Inches	
	Memo:	



WELL COMPLETION LOG

FG Project Name: Brenntag	Well ID: **MW-3d**	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Kris Gamble	Date installed: January 15, 2008	
Drilling Company: GSI - Corey Lewis	Weather Conditions: Clear 38°	
Drilling Equipment: CME-75	Borehole Diameter: 8 Inches	
	Memo:	



Project Number 14770000

APPENDIX B
KDHE BUREAU OF WATER WAIVERS
WATER WELL RECORDS FORMS
WWC-5 & WWC-5P

RECEIVED
FEB 0 8 2008
GSI

KANSAS
DEPARTMENT OF HEALTH
AND ENVIRONMENT
Division of Environment

Kathleen Sebelius, Governor
Roderick L. Bremby, Secretary

www.kdheks.gov

February 7, 2008

GSI
David Ring
4503 East 47th Street South
Wichita, Kansas 67210-1651

Re: Waiver request for flush mount monitoring well for **Brenntag Southwest Inc.**, Wichita, Kansas. Located in the SW 1/4 of the NE 1/4 of the SE1/4 of the SW 1/4 of Section 9, Township 27 South, Range 1 East, Sedgwick County.

Dear Mr. Ring:

In accordance with Kansas Administrative Regulations **(K.A.R.) 28-30-9**, appealing regulations as stated in Article 30, your request for an exception to **K.A.R. 28-30-6(b)(1),(c) and (e)** for authorization of **20** geotechnical wells to be constructed less than 12 inches above the **finished ground level** and less than 20 feet of grout if ground **water encountered less than 20' below the surface**, at the above-mentioned site is hereby granted subject to the following stipulations:

1. Monitoring wells included in this request will be grouted from a maximum of two feet below a ground surface to within one foot above the screened section.

2. The wellhead will be encased in an approved water resistant/proof manhole. The manhole will be encased in cement, which is to be domed or sloped to allow Drainage away from the manhole, (refer to the attached diagram page 2).

3. The casing of the monitoring well will be sealed with an approved watertight lock able monitoring well caps (refer to the attached diagram).

4. A copy of this KDHE letter, approving your request for waiver of **K.A.R. 28-30-6(b)(1),(c) and (e)**, will be sent to KDHE attached to the water well record (WWC-5 Form) of the first well drilled under the granted waiver.

5. Upon completion of the project the wells covered by the waiver shall be plugged in accordance with **K.A.R. 28-30-7 (d).**

The decision to grant this waiver is based almost entirely on the data provided in your request. This waiver is to cover only the **20** wells mentioned and reportedly will be drilled by **GSI.** Kansas Water Well Contractor License **Number 531**. This waiver will become null and void if any of the information submitted in the request is found to be false or if the wells are not constructed in strict conformity to Kansas rules and regulations and the above mentioned, stipulations. Please contact Don Taylor, (785) 296-5522, if you have any questions or concerns pertaining to this matter.

Sincerely,

Don Taylor

Don Taylor
Environmental Technician
Bureau of Water
Geology Section

DT:jf

cc: Harper
South Central District Office

GSI Job No. 087013 PZ-1

WATER WELL PLUGGING RECORD Form WWC-5P KSA 82a-1212 ID NO.

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction NE ¼ SE ¼ SW ¼	Section Number 9	Township Number 27	Range Number 1 E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

2 **WATER WELL OWNER:** Peter Ramaley, Brenntag Director Environment, Health and Safety
RR#, St. Address, Box #: PO Box 13786
City, State, ZIP Code: Reading, PA 19612

Global Positioning System (decimal degrees, min. of 4 digits)
Latitude:
Longitude:
Elevation:
Datum:
Data Collection Method:

3 **MARK WELL'S LOCATION WITH AN "X" IN SECTION BOX:**

N
NW NE
W E
SW X SE
S

4 **DEPTH OF WELL** 19.80 ft.

WELL'S STATIC WATER LEVEL 12.15 ft

WELL WAS USED AS:

1 Domestic	5 Public Water Supply	9 Dewatering
2 Irrigation	6 Oil Field Water Supply	10 Monitoring
3 Feedlot	7 Domestic (Lawn & Garden)	11 Injection Well
4 Industrial	8 Air Conditioning	12 Other

Was a chemical/bacteriological sample submitted to Department? Yes ___ No X

5 **TYPE OF BLANK CASING USED:**

1 Steel	3 RMP (SR)	5 Wrought	7 Fiberglass	9 Other (Specify below)
2 PVC	4 ABS	6 Asbestos-Cement	8 Concrete Tile	

Blank casing diameter 2 in. Was casing pulled? Yes X No ___ If yes, how much All
Casing height above or below land surface NA in.

6 **GROUT PLUG MATERIAL:** 1 Neat cement 2 Cement grout 3 Bentonite 4 Other Soil

Grout Plug Intervals: From 19.8 ft. to 1 ft., From 1 ft. to 0 ft., From to ft.

What is the nearest source of possible contamination:

1 Septic tank	6 Seepage pit	11 Fuel Storage	16 Other (specify below)
2 Sewer lines	7 Pit privy	12 Fertilizer storage	
3 Watertight sewer lines	8 Sewage lagoon	13 Insecticide storage	
4 Lateral lines	9 Feedyard	14 Abandoned water well	Direction from well?
5 Cess pool	10 Livestock pens	15 Oil well/Gas well	How many feet?

FROM	TO	PLUGGING MATERIALS	FROM	TO	PLUGGING MATERIALS
0	1	Native Soil			
1	19.8	Bentonite Chips			

7 **CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was plugged under my jurisdiction and was completed on (mo/day/year) 01/14/08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 531. This Water Well Record was completed on (mo/day/year) 02/04/08 under the business name of Geotechnical Services, Inc. by (signature) [signature].

INSTRUCTIONS: Please fill in blanks or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 785/296-5522. Send one to Water Well Owner and retain one for your records. Visit us at http://www.kdheks.gov/waterwell.

White Copy

KSA 82a-1212

Form provided by Forms-On-A-Disk, Inc. · Dallas, Texas · (214) 340-9429

GSI Job No. 087013 **MW-1s**

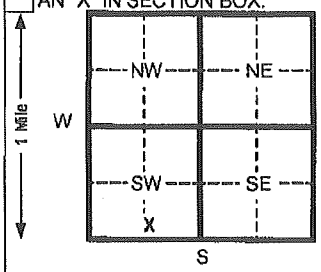
WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. _____

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Segwick	SW ¼ SE ¼ SW ¼	9	T 27 S	R 1 E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

2 WATER WELL OWNER: Peter Ramaley, Brenntag Director, Environment, Health and Safety
RR#, St. Address, Box # : PO Box 13786
City, State, ZIP Code : Reading, PA 19612
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATON WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 25 ft. ELEVATION: 1305.20 (TOC)
Depth(s) Groundwater Encountered 1 _____ ft. 2 _____ ft. 3 _____ ft.
WELL'S STATIC WATER LEVEL 11.97 ft. below TOC measured on mo/day/yr 01/30/08
Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
Bore Hole Diameter 8.25 in. to 25.5 ft. and _____ in. to _____ ft.
WELL WATER TO BE USED AS: 1 Domestic 3 Feed lot 5 Public water supply 6 Oil field water supply 8 Air conditioning 9 Dewatering 11 Injection well 12 Other (Specify below)
2 Irrigation 4 Industrial 7 Lawn and garden (domestic) 10 Monitoring well
Was a chemical/bacteriological sample submitted to Department? Yes _____ No X If yes, mo/day/yr sample was submitted
Water Well Disinfected? Yes _____ No X

5 TYPE OF BLANK CASING USED: 1 Steel 2 PVC 3 RMP (SR) 4 ABS 5 Wrought Iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)
CASING JOINTS: Glued _____ Clamped _____ Welded Threaded Flush
Blank casing diameter 2 in. to 15 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
Casing height above land surface Flushmount in., weight 0.703 lbs./ft. Wall thickness or gauge No. SCH. 40
TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile 7 PVC 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) _____ 12 None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 2 Louvered shutter 3 Mill slot 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) _____ 11 None (open hole)
SCREEN-PERFORATED INTERVALS: From 15 ft. to 25 ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.
GRAVEL PACK INTERVALS: From 13 ft. to 25.5 ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other _____
Grout Intervals From 1 ft. to 13 ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.
What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/ Gas well 16 Other (specify below)
Direction from well? How many feet?

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8		Silty Clay			
8	25.5		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) 01/14/08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 531 This Water Well Record was completed on (mo/day/yr) 02/04/08 under the business name of Geotechnical Services Inc. by (signature)

INSTRUCTIONS:. Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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GSI Job No. 087013 **MW-1d**

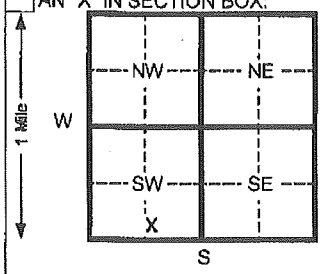
WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. _____

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: **Segwick**	**SW** ¼ **SE** ¼ **SW** ¼	**9**	T **27** S	R **1** E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

2 WATER WELL OWNER: **Peter Ramaley, Brenntag Director, Environment, Health and Safety**
RR#, St. Address, Box # : **PO Box 13786**
City, State, ZIP Code : **Reading, PA 19612**
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATON WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL **37** ft. ELEVATION: **1305.17 (TOC)**
Depth(s) Groundwater Encountered 1 _____ ft. 2 _____ ft. 3 _____ ft.
WELL'S STATIC WATER LEVEL **11.90** ft. below TOC measured on mo/day/yr **01/30/08**
Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
Bore Hole Diameter **8.25** in. to **37.5** ft. and _____ in. to _____ ft.
WELL WATER TO BE USED AS: 1 Domestic 2 Irrigation 3 Feed lot 4 Industrial 5 Public water supply 6 Oil field water supply 7 Lawn and garden (domestic) 8 Air conditioning 9 Dewatering 10 Monitoring well 11 Injection well 12 Other (Specify below)
Was a chemical/bacteriological sample submitted to Department? Yes _____ No **X** If yes, mo/day/yr sample was submitted
Water Well Disinfected? Yes _____ No **X**

5 TYPE OF BLANK CASING USED: 1 Steel 2 PVC 3 RMP (SR) 4 ABS 5 Wrought Iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)
CASING JOINTS: Glued _____ Clamped _____ Welded _____ Threaded **Flush**
Blank casing diameter **2** in. to **32** ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
Casing height above land surface **Flushmount** in., weight **0.703** lbs./ft. Wall thickness or gauge No. **SCH. 40**
TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile 7 PVC 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) _____ 12 None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 2 Louvered shutter 3 Mill slot 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) _____ 11 None (open hole)
SCREEN-PERFORATED INTERVALS: From **32** ft. to **37** ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.
GRAVEL PACK INTERVALS: From **30** ft. to **37.5** ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other _____
Grout Intervals From **1** ft. to **30** ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.
What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/ Gas well 16 Other (specify below) _____
Direction from well? How many feet?

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8		Silty Clay			
8	37.5		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) **01/14/08** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **531** This Water Well Record was completed on (mo/day/yr) **02/04/08**
under the business name of **Geotechnical Services Inc.** by (signature) [signature]

INSTRUCTIONS:. Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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GSI Job No. 087013

MW-2s

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No.

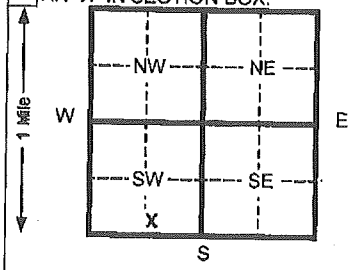
1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Segwick	SW ¼ SE ¼ SW ¼	9	T 27 S	R 1 E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

2 WATER WELL OWNER: Peter Ramaley, Brenntag Director, Environment, Health and Safety
RR#, St. Address, Box # : PO Box 13786
City, State, ZIP Code : Reading, PA 19612

Board of Agriculture, Division of Water Resources
Application Number:

3 LOCATE WELL'S LOCATON WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 25 ft. ELEVATION: 1306.54 (TOC)
Depth(s) Groundwater Encountered 1 ft. 2 ft. 3 ft.
WELL'S STATIC WATER LEVEL 13.57 ft. below TOC measured on mo/day/yr 01/30/08
Pump test data: Well water was ft. after hours pumping gpm
Est. Yield gpm: Well water was ft. after hours pumping gpm
Bore Hole Diameter 8.25 in. to 25.5 ft. and in. to ft.
WELL WATER TO BE USED AS: 1 Domestic 3 Feed lot 5 Public water supply 6 Oil field water supply 8 Air conditioning 9 Dewatering 11 Injection well 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Lawn and garden (domestic) [10 Monitoring well]
Was a chemical/bacteriological sample submitted to Department? Yes No X If yes, mo/day/yr sample was submitted
Water Well Disinfected? Yes No X

5 TYPE OF BLANK CASING USED: 1 Steel [2 PVC] 3 RMP (SR) 4 ABS 5 Wrought Iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)
CASING JOINTS: Glued Clamped Welded [Threaded Flush]
Blank casing diameter 2 in. to 15 ft., Dia in. to ft., Dia in. to ft.
Casing height above land surface Flushmount in., weight 0.703 lbs./ft. Wall thickness or gauge No. SCH. 40
TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile [7 PVC] 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) 12 None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 2 Louvered shutter [3 Mill slot] 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) 11 None (open hole)
SCREEN-PERFORATED INTERVALS: From 15 ft. to 25 ft. From ft. to ft.
From ft. to ft. From ft. to ft.
GRAVEL PACK INTERVALS: From 13 ft. to 25.5 ft. From ft. to ft.
From ft. to ft. From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout [3 Bentonite] 4 Other
Grout Intervals From 1 ft. to 13 ft. From ft. to ft. From ft. to ft.
What is the nearest source of possible contamination: 1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/ Gas well 16 Other (specify below)
Direction from well? How many feet?

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8		Silty Clay			
8	25.5		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [(1) constructed], (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) 01/14/08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 531 This Water Well Record was completed on (mo/day/yr) 02/04/08 under the business name of Geotechnical Services Inc. by (signature)

INSTRUCTIONS:. Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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GSI Job No. 087013

MW-2d

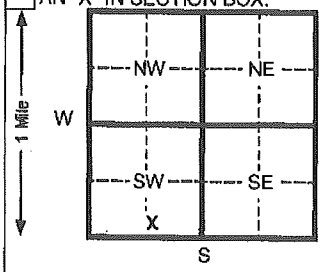
WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No.

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Segwick	SW ¼ SE ¼ SW ¼	9	T 27 S	R 1 E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

2 WATER WELL OWNER: Peter Ramaley, Brenntag Director, Environment, Health and Safety
RR#, St. Address, Box # : PO Box 13786
City, State, ZIP Code : Reading, PA 19612
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATON WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 36 ft. ELEVATION: 1306.44 (TOC)
Depth(s) Groundwater Encountered 1 ft. 2 ft. 3 ft.
WELL'S STATIC WATER LEVEL 13.47 ft. below TOC measured on mo/day/yr 01/30/08
Pump test data: Well water was ft. after hours pumping gpm
Est. Yield gpm: Well water was ft. after hours pumping gpm
Bore Hole Diameter 8.25 in. to 36.5 ft. and in. to ft.
WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
1 Domestic 3 Feed lot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
2 Irrigation 4 Industrial 7 Lawn and garden (domestic) 10 Monitoring well
Was a chemical/bacteriological sample submitted to Department? Yes No X If yes, mo/day/yr sample was submitted
Water Well Disinfected? Yes No X

5 TYPE OF BLANK CASING USED: 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued Clamped
1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded
2 PVC 4 ABS 7 Fiberglass Threaded Flush
Blank casing diameter 2 in. to 31 ft., Dia in. to ft., Dia in. to ft.
Casing height above land surface Flushmount in., weight 0.703 lbs./ft. Wall thickness or gauge No. SCH. 40
TYPE OF SCREEN OR PERFORATION MATERIAL: 7 PVC 10 Asbestos-cement
1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)
2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
1 Continuous slot 3 Mill slot 6 Wire wrapped 9 Drilled holes
2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify)
SCREEN-PERFORATED INTERVALS: From 31 ft. to 36 ft. From ft. to ft.
From ft. to ft. From ft. to ft.
GRAVEL PACK INTERVALS: From 28 ft. to 36.5 ft. From ft. to ft.
From ft. to ft. From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other
Grout Intervals From 1 ft. to 28 ft. From ft. to ft. From ft. to ft.
What is the nearest source of possible contamination: 10 Livestock pens 14 Abandoned water well
1 Septic tank 4 Lateral lines 7 Pit privy 11 Fuel storage 15 Oil well/ Gas well
2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below)
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage
Direction from well? How many feet?

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8		Silty Clay			
8	36.5		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) 01/14/08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 531 This Water Well Record was completed on (mo/day/yr) 02/04/08
under the business name of Geotechnical Services Inc. by (signature)

INSTRUCTIONS:. Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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GSI Job No. 087013

MW-3s

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. _____

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Segwick	SW ¼ SE ¼ SW ¼	9	T 27 S	R 1 E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

2 WATER WELL OWNER: Peter Ramaley, Brenntag Director, Environment, Health and Safety
RR#, St. Address, Box # : PO Box 13786
City, State, ZIP Code : Reading, PA 19612

Board of Agriculture, Division of Water Resources
Application Number:

3 LOCATE WELL'S LOCATON WITH AN "X" IN SECTION BOX:

NW NE SW SE X W E S 1 Mile

4 DEPTH OF COMPLETED WELL 25 ft. ELEVATION: 1306.54 (TOC)
Depth(s) Groundwater Encountered 1 _____ ft. 2 _____ ft. 3 _____ ft.
WELL'S STATIC WATER LEVEL 13.53 ft. below TOC measured on mo/day/yr 01/30/08
Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm
Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm
Bore Hole Diameter 8.25 in. to 25.5 ft. and _____ in. to _____ ft.
WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
1 Domestic 3 Feed lot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
2 Irrigation 4 Industrial 7 Lawn and garden (domestic) [10 Monitoring well]
Was a chemical/bacteriological sample submitted to Department? Yes _____ No X If yes, mo/day/yr sample was submitted
Water Well Disinfected? Yes _____ No X

5 TYPE OF BLANK CASING USED: 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____
1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded
[2 PVC] 4 ABS 7 Fiberglass Threaded Flush
Blank casing diameter 2 in. to 15 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.
Casing height above land surface Flushmount in., weight 0.703 lbs./ft. Wall thickness or gauge No. SCH. 40
TYPE OF SCREEN OR PERFORATION MATERIAL: [7 PVC] 10 Asbestos-cement
1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify) _____
2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
1 Continuous slot [3 Mill slot] 6 Wire wrapped 9 Drilled holes
2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify) _____
SCREEN-PERFORATED INTERVALS: From 15 ft. to 25 ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.
GRAVEL PACK INTERVALS: From 13 ft. to 25.5 ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout [3 Bentonite] 4 Other _____
Grout Intervals From 1 ft. to 13 ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.
What is the nearest source of possible contamination: 10 Livestock pens 14 Abandoned water well
1 Septic tank 4 Lateral lines 7 Pit privy 11 Fuel storage 15 Oil well/ Gas well
2 Sewer lines 5 Cess pool 8 Sewage lagoon 12 Fertilizer storage 16 Other (specify below)
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 13 Insecticide storage
Direction from well? How many feet?

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8		Silty Clay			
8	25.5		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [(1) constructed], (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) 01/14/08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 531 This Water Well Record was completed on (mo/day/yr) 02/04/08 under the business name of Geotechnical Services Inc. by (signature) [signature]

INSTRUCTIONS:. Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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GSI Job No. 087013

MW-3d

WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. _____

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: Segwick	SW ¼ SE ¼ SW ¼	9	T 27 S	R 1 E

Distance and direction from nearest town or city street address of well if located within city?
1520 N. Barwise, Wichita

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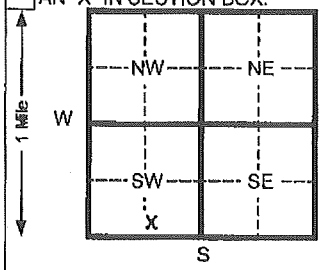
RR#, St. Address, Box # : PO Box 13786
City, State, ZIP Code : Reading, PA 19612

Board of Agriculture, Division of Water Resources
Application Number:

3 LOCATE WELL'S LOCATON WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 38 ft. ELEVATION: 1306.54 (TOC)

Depth(s) Groundwater Encountered 1 _____ ft. 2 _____ ft. 3 _____ ft.

WELL'S STATIC WATER LEVEL 13.53 ft. below TOC measured on mo/day/yr 01/30/08

Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm

Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm

Bore Hole Diameter 8.25 in. to 38.5 ft. and _____ in. to _____ ft.

WELL WATER TO BE USED AS: 1 Domestic 3 Feed lot 5 Public water supply 6 Oil field water supply 8 Air conditioning 9 Dewatering 11 Injection well 12 Other (Specify below)
2 Irrigation 4 Industrial 7 Lawn and garden (domestic) [10 Monitoring well]

Was a chemical/bacteriological sample submitted to Department? Yes _____ No X If yes, mo/day/yr sample was submitted

Water Well Disinfected? Yes _____ No X

5 TYPE OF BLANK CASING USED: 1 Steel [2 PVC] 3 RMP (SR) 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)

CASING JOINTS: Glued _____ Clamped _____ Welded [Threaded Flush]

Blank casing diameter 2 in. to 33 ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.

Casing height above land surface Flushmount in., weight 0.703 lbs./ft. Wall thickness or gauge No. SCH. 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile [7 PVC] 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) _____ 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 2 Louvered shutter [3 Mill slot] 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) _____ 11 None (open hole)

SCREEN-PERFORATED INTERVALS: From 33 ft. to 38 ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.

GRAVEL PACK INTERVALS: From 31 ft. to 38.5 ft. From _____ ft. to _____ ft.
From _____ ft. to _____ ft. From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout [3 Bentonite] 4 Other _____

Grout Intervals From 1 ft. to 31 ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.

What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/ Gas well 16 Other (specify below) _____

Direction from well? How many feet?

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8		Silty Clay			
8	38.5		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [(1) constructed], (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) 01/14/08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 531 This Water Well Record was completed on (mo/day/yr) 02/04/08 under the business name of Geotechnical Services Inc. by (signature) [signature]

INSTRUCTIONS:. Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

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Project Number 14770000

APPENDIX C
GROUNDWATER WELL DEVELOPMENT FORMS

Well Development/Purge Form

FG Project Name: Brenntag	**Well ID:** MW-1s
FG Project Number: 1477000	
Casing Diameter 2" (ID)/OD (circle)	Date: 1-16-2008
Measuring Point: Well Rim / Top of Casing (circle)	Personnel Name(s): Kris Gamble
Static GW Depth 11.92 ft Total Depth: 24.60 ft	Weather Conditions: cold 33°
Water Column Height: 12.68 ft	Well Condition (visibility, pad, cap, lock, etc.): New

Water Volume in Well = Water Column Height 12.68 x Unit Well Volume ~~2.0~~ 0.16 = 2.02 gallons x5

Water Extraction Method Method: Bailer or Pump (circle), Type Geo Squirt 10.14 +15 = 25

Start Time	Water Level Before Development/ Purge (feet)	End Time	Water Level After Development/ Purge (feet)	Volume of Water Removed (Gallons)	Turbidity Before Development/ Purge	Turbidity After Development/ Purge	Color and Odor
0905	11.92	Start	pumping				
0913	12.08	well	surged				
0920	12.08	well	surged				
0934	11.92	final		29 gal			clear

Comments:

≈ 15 gal water added during drilling

Color: clear other (describe)

Odor Level: none low medium high very strong **Odor Type:** H2S Fuel-like

Turbidity: none, low, medium, high

Well Casing Volumes (Well Diameter : Volumes)

1.25 in = 0.077 gal/ft	X 2.0 in = 0.16 gal/ft	3.0 in = 0.37 gal/ft	4 in = 0.65 gal/ft
1.50 in = 0.10 gal/ft	2.5 in = 0.24 gal/ft	3.5 in = 0.50 gal/ft	6 in = 1.46 gal/ft

Well Development/Purge Form

FG Project Name: Brewntay	**Well ID:** MW-1d
FG Project Number: 14770000	
Casing Diameter 2" (ID)/OD (circle)	Date: 1-16-2008
Measuring Point: Well Rim / Top of Casing (circle)	Personnel Name(s): Kris Gamble
Static GW Depth 11.9 ft Total Depth: 37.35 ft	Weather Conditions: cold 32°
Water Column Height: 25.45 ft	Well Condition (visibility, pad, cap, lock, etc.): New

Water Volume in Well = Water Column Height 25.45 x Unit Well Volume 0.16 = 4.07 gallons x 5 =
Water Extraction Method Method: Bailer or Pump (circle), Type Geo equipt 20.36 +15 = 35.36

Start Time	Water Level Before Development/ Purge (feet)	End Time	Water Level After Development/ Purge (feet)	Volume of Water Removed (Gallons)	Turbidity Before Development/ Purge	Turbidity After Development/ Purge	Color and Odor
0830	12.93	start	pumping				
0835	11.97	well	surged				
0840	11.97	well	surged				
0850	11.95	well	surged				
0900	11.87	final		38 gal			clear

Comments:
15 gal water added during well drilling

Color: clear other (describe)

Odor Level: none low medium high very strong **Odor Type:** H2S Fuel-like

Turbidity: none, low, medium, high

Well Casing Volumes (Well Diameter : Volumes)

1.25 in = 0.077 gal/ft	X 2.0 in = 0.16 gal/ft	3.0 in = 0.37 gal/ft	4 in = 0.65 gal/ft
1.50 in = 0.10 gal/ft	2.5 in = 0.24 gal/ft	3.5 in = 0.50 gal/ft	6 in = 1.46 gal/ft

Well Development/Purge Form

FG Project Name: Brenntag	**Well ID:** MW-2s
FG Project Number: 14770000	
Casing Diameter 2" (ID)/OD (circle)	Date: 1-16-2008
Measuring Point: Well Rim / Top of Casing (circle)	Personnel Name(s): Kris Gamble
Static GW Depth 13.52 ft Total Depth: 25.0 ft	Weather Conditions: cold 33°
Water Column Height: 11.48 ft	Well Condition (visibility, pad, cap, lock, etc.): New

Water Volume in Well = Water Column Height 11.48 x Unit Well Volume 0.16 = 1.83 gallons x5

Water Extraction Method Method: Bailer or Pump (circle), Type Geo Squirt 9.18 + 15 = 24.18

Start Time	Water Level Before Development/ Purge (feet)	End Time	Water Level After Development/ Purge (feet)	Volume of Water Removed (Gallons)	Turbidity Before Development/ Purge	Turbidity After Development/ Purge	Color and Odor
1026	13.54	started	pumping				
1031	13.63	well	surged				
1038	13.63	well	surged				
1045	13.54	final		30 gal			clear

Comments:

15 gal added during drilling

Color: clear other (describe)

Odor Level: none low medium high very strong **Odor Type:** H2S Fuel-like

Turbidity: none, low, medium, high

Well Casing Volumes (Well Diameter : Volumes)

1.25 in = 0.077 gal/ft	X 2.0 in = 0.16 gal/ft	3.0 in = 0.37 gal/ft	4 in = 0.65 gal/ft
1.50 in = 0.10 gal/ft	2.5 in = 0.24 gal/ft	3.5 in = 0.50 gal/ft	6 in = 1.46 gal/ft

Well Development/Purge Form

FG Project Name: Brenntag	**Well ID:** MW-2d
FG Project Number: 14770000	
Casing Diameter 2" (ID)/OD (circle)	Date: 1-16-2008
Measuring Point: Well Rim / Top of Casing (circle)	Personnel Name(s): Kris Gamble
Static GW Depth 13.42 ft Total Depth: 38.70 ft	Weather Conditions: cold 30°
Water Column Height: 27.28 ft	Well Condition (visibility, pad, cap, lock, etc.): New

Water Volume in Well = Water Column Height 27.28 x Unit Well Volume 0.16 = 4.36 gallons x5 =

Water Extraction Method Method: Bailer or Pump (circle), Type Geo Squirt 21.8 H5 = 36

Start Time	Water Level Before Development/ Purge (feet)	End Time	Water Level After Development/ Purge (feet)	Volume of Water Removed (Gallons)	Turbidity Before Development/ Purge	Turbidity After Development/ Purge	Color and Odor
0958	13.47	started	pumping				
1005	13.54	well	surged				
1010	13.54	well	surged				
1025	13.43	final		38gal			clear

Comments:

15 gal of H_2O added during well drilling

Color: clear other (describe)

Odor Level: none ~~low~~ KS medium high very strong **Odor Type:** H2S Fuel-like

Turbidity: none, low, medium, high

Well Casing Volumes (Well Diameter : Volumes)

1.25 in = 0.077 gal/ft	X 2.0 in = 0.16 gal/ft	3.0 in = 0.37 gal/ft	4 in = 0.65 gal/ft
1.50 in = 0.10 gal/ft	2.5 in = 0.24 gal/ft	3.5 in = 0.50 gal/ft	6 in = 1.46 gal/ft

Well Development/Purge Form

FG Project Name: Beenntag	**Well ID:** MW-3s
FG Project Number: 14770000	
Casing Diameter 2" (ID)/OD (circle)	Date: 1-16-2008
Measuring Point: Well Rim / Top of Casing (circle)	Personnel Name(s): Kris Gamble
Static GW Depth 13.40 ft Total Depth: 24.56 ft	Weather Conditions: cold 33°
Water Column Height: 11.08 ft	Well Condition (visibility, pad, cap, lock, etc.): New

Water Volume in Well = Water Column Height 11.08 x Unit Well Volume 0.16 = 1.77 gallons x5 = 8.86

Water Extraction Method Method: Bailer or Pump (circle), Type Geo Squirt + 15 23.86

Start Time	Water Level Before Development/ Purge (feet)	End Time	Water Level After Development/ Purge (feet)	Volume of Water Removed (Gallons)	Turbidity Before Development/ Purge	Turbidity After Development/ Purge	Color and Odor
1133	13.50	start	pumping				
1140	13.64	well	surged				
1145	13.65	well	surged				
1155	13.51	well	complete	35.0			

Comments:

15 gal H2O added during well construction

Color: clear other (describe)

Odor Level: none low medium high very strong **Odor Type:** H2S Fuel-like

Turbidity: none, low, medium, high

Well Casing Volumes (Well Diameter : Volumes)

1.25 in = 0.077 gal/ft	X 2.0 in = 0.16 gal/ft	3.0 in = 0.37 gal/ft	4 in = 0.65 gal/ft
1.50 in = 0.10 gal/ft	2.5 in = 0.24 gal/ft	3.5 in = 0.50 gal/ft	6 in = 1.46 gal/ft

Well Development/Purge Form

FG Project Name: Brenntag	**Well ID:** MW-3d
FG Project Number: 1477000	
Casing Diameter 2" ID/OD (circle)	Date: 1-16-2008
Measuring Point: Well Rim / Top of Casing (circle)	Personnel Name(s): Kris Gamble
Static GW Depth 13.54 ft Total Depth: 37.58 ft	Weather Conditions: cold 33°
Water Column Height: 24.04 ft	Well Condition (visibility, pad, cap, lock, etc.): New

Water Volume in Well = Water Column Height 24.04 x Unit Well Volume 0.16 = 3.84 gallons x 5 =
Water Extraction Method Method: Bailer or Pump (circle), Type 19.23 + 15 = 34.23

Start Time	Water Level Before Development/ Purge (feet)	End Time	Water Level After Development/ Purge (feet)	Volume of Water Removed (Gallons)	Turbidity Before Development/ Purge	Turbidity After Development/ Purge	Color and Odor
1100	13.54	start	pumping				
1110	14.10	well	surged				
1116	14.10	well	surged				
1120	14.10	well	surged				
1130	13.50	final		45 gal			clear

Comments:

15 gal water added during well drilling

Color: clear other (describe)

Odor Level: none low medium high very strong **Odor Type:** H2S Fuel-like

Turbidity: none, low, medium, high

Well Casing Volumes (Well Diameter : Volumes)

1.25 in = 0.077 gal/ft	X 2.0 in = 0.16 gal/ft	3.0 in = 0.37 gal/ft	4 in = 0.65 gal/ft
1.50 in = 0.10 gal/ft	2.5 in = 0.24 gal/ft	3.5 in = 0.50 gal/ft	6 in = 1.46 gal/ft

Project Number 14770000

APPENDIX D
FIELD EVENT NOTES

Groundwater Monitoring Event

Month Year 2008
Project Name Brenntag SW
Project Location 1520 N Barwise Wichita KS
Project Number

Well ID	Date	Depth to and/or LNAPLThickness	Depth to Water (from TOC)	Depth to and/or DNAPLThickness	Well Depth	Sample ID(s)	Sample Time
MW-1s	2/7/08	NA	11.99	NA	24.61		1520
MW-1D	2/7/08	NA	11.95	NA	36.86		1505
MW-2s	2/7/08	NA	13.60	NA	25.13		1450
MW-2D	2/7/08	NA	13.51	NA	37.80		1440
MW-3s	2/7/08	NA	13.61	NA	21.83		1425
MW-3D	2/7/08	NA	13.50	NA	37.89		1400
P 7.3	2/7/08	NA	13.25	NA	19.85		1350

Project Number 14770000

APPENDIX E
ANALYTICAL DATA

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 24, 2008

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: BRENNTAG
Pace Project No.: 6035227

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: BRENNTAG
Pace Project No.: 6035227

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6035227001	**PZ-3**	Water	02/07/08 13:50	02/09/08 07:15
6035227002	**MW-1S**	Water	02/07/08 15:20	02/09/08 07:15
6035227003	**MW-1D**	Water	02/07/08 15:05	02/09/08 07:15
6035227004	**MW-2S**	Water	02/07/08 14:50	02/09/08 07:15
6035227005	**MW-2D**	Water	02/07/08 14:40	02/09/08 07:15
6035227006	**MW-3S**	Water	02/07/08 14:25	02/09/08 07:15
6035227007	**MW-3D**	Water	02/07/08 14:00	02/09/08 07:15
6035227008	**TRIP BLANK**	Water	02/07/08 00:00	02/09/08 07:15
6035227009	**BLIND DUPLICATE**	Water	02/07/08 00:00	02/09/08 07:15

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: BRENNTAG
Pace Project No.: 6035227

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6035227001	PZ-3	EPA 5030B/8260	JTK	70
6035227002	MW-1S	EPA 5030B/8260	AJA	70
6035227003	MW-1D	EPA 5030B/8260	AJA	70
6035227004	MW-2S	EPA 5030B/8260	AJA	70
6035227005	MW-2D	EPA 5030B/8260	AJA	70
6035227006	MW-3S	EPA 5030B/8260	AJA	70
6035227007	MW-3D	EPA 5030B/8260	AJA	70
6035227008	TRIP BLANK	EPA 5030B/8260	AJA	70
6035227009	BLIND DUPLICATE	EPA 5030B/8260	AJA	70

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: PZ-3 **Lab ID: 6035227001** Collected: 02/07/08 13:50 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/15/08 22:56	67-64-1	
Benzene	ND	ug/L	1.0	1		02/15/08 22:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/15/08 22:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/15/08 22:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/08 22:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/08 22:56	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/08 22:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/15/08 22:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/15/08 22:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/08 22:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/08 22:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/08 22:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/08 22:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/08 22:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/15/08 22:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/15/08 22:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/15/08 22:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/08 22:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/15/08 22:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/15/08 22:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/15/08 22:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/15/08 22:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/15/08 22:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/15/08 22:56	75-71-8	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		02/15/08 22:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/08 22:56	107-06-2	
1,2-Dichloroethene (Total)	**7.9**	ug/L	1.0	1		02/15/08 22:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/08 22:56	75-35-4	
cis-1,2-Dichloroethene	**7.6**	ug/L	1.0	1		02/15/08 22:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/08 22:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/08 22:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/15/08 22:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/15/08 22:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/15/08 22:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/08 22:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/08 22:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/15/08 22:56	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/15/08 22:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/15/08 22:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/15/08 22:56	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/15/08 22:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/15/08 22:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/15/08 22:56	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: PZ-3 **Lab ID: 6035227001** Collected: 02/07/08 13:50 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/15/08 22:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	103-65-1	
Styrene	ND	ug/L	1.0	1		02/15/08 22:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/08 22:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/08 22:56	79-34-5	
Tetrachloroethene	**117**	ug/L	1.0	1		02/15/08 22:56	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/08 22:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/15/08 22:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/15/08 22:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/08 22:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/08 22:56	79-00-5	
Trichloroethene	**8.1**	ug/L	1.0	1		02/15/08 22:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/08 22:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/15/08 22:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/15/08 22:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/15/08 22:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/15/08 22:56	1330-20-7	
4-Bromofluorobenzene (S)	97	%	85-119	1		02/15/08 22:56	460-00-4	
Dibromofluoromethane (S)	99	%	85-114	1		02/15/08 22:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	81-118	1		02/15/08 22:56	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		02/15/08 22:56	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/15/08 22:56		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-1S **Lab ID: 6035227002** Collected: 02/07/08 15:20 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 21:09	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 21:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 21:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 21:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/18/08 21:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 21:09	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 21:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 21:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 21:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 21:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 21:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 21:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 21:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 21:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 21:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/18/08 21:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 21:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 21:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 21:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:09	107-06-2	
1,2-Dichloroethene (Total)	**2.2**	ug/L	1.0	1		02/18/08 21:09	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 21:09	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	1		02/18/08 21:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/18/08 21:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 21:09	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 21:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 21:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 21:09	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 21:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 21:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 21:09	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-1S **Lab ID: 6035227002** Collected: 02/07/08 15:20 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 21:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 21:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/18/08 21:09	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 21:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:09	79-00-5	
Trichloroethene	**2.0**	ug/L	1.0	1		02/18/08 21:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 21:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 21:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 21:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 21:09	1330-20-7	
4-Bromofluorobenzene (S)	100	%	85-119	1		02/18/08 21:09	460-00-4	
Dibromofluoromethane (S)	98	%	85-114	1		02/18/08 21:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-118	1		02/18/08 21:09	17060-07-0	
Toluene-d8 (S)	99	%	82-114	1		02/18/08 21:09	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 21:09		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-1D **Lab ID: 6035227003** Collected: 02/07/08 15:05 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 21:25	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 21:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 21:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 21:25	74-97-5	
Bromodichloromethane	**1.2**	ug/L	1.0	1		02/18/08 21:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 21:25	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 21:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 21:25	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 21:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 21:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 21:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 21:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 21:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 21:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 21:25	96-12-8	
Dibromochloromethane	**1.3**	ug/L	1.0	1		02/18/08 21:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 21:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 21:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 21:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:25	107-06-2	
1,2-Dichloroethene (Total)	**15.8**	ug/L	1.0	1		02/18/08 21:25	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 21:25	75-35-4	
cis-1,2-Dichloroethene	**15.6**	ug/L	1.0	1		02/18/08 21:25	156-59-2	
trans-1,2-Dichloroethene	**0.20J**	ug/L	1.0	1		02/18/08 21:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 21:25	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 21:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 21:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 21:25	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 21:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 21:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 21:25	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-1D **Lab ID: 6035227003** Collected: 02/07/08 15:05 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 21:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 21:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/18/08 21:25	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 21:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:25	79-00-5	
Trichloroethene	**2.0**	ug/L	1.0	1		02/18/08 21:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 21:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 21:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 21:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 21:25	1330-20-7	
4-Bromofluorobenzene (S)	101	%	85-119	1		02/18/08 21:25	460-00-4	
Dibromofluoromethane (S)	100	%	85-114	1		02/18/08 21:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	81-118	1		02/18/08 21:25	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		02/18/08 21:25	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 21:25		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-2S **Lab ID: 6035227004** Collected: 02/07/08 14:50 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 21:42	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 21:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 21:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 21:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/18/08 21:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 21:42	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 21:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 21:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 21:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 21:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 21:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 21:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 21:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 21:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 21:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/18/08 21:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 21:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 21:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 21:42	75-71-8	
1,1-Dichloroethane	**7.4**	ug/L	1.0	1		02/18/08 21:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:42	107-06-2	
1,2-Dichloroethene (Total)	**53.9**	ug/L	1.0	1		02/18/08 21:42	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 21:42	75-35-4	
cis-1,2-Dichloroethene	**53.0**	ug/L	1.0	1		02/18/08 21:42	156-59-2	
trans-1,2-Dichloroethene	**0.94J**	ug/L	1.0	1		02/18/08 21:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 21:42	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 21:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 21:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 21:42	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 21:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 21:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 21:42	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-2S **Lab ID: 6035227004** Collected: 02/07/08 14:50 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 21:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 21:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:42	79-34-5	
Tetrachloroethene	**103**	ug/L	1.0	1		02/18/08 21:42	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 21:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:42	79-00-5	
Trichloroethene	**9.9**	ug/L	1.0	1		02/18/08 21:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 21:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 21:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 21:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 21:42	1330-20-7	
4-Bromofluorobenzene (S)	101	%	85-119	1		02/18/08 21:42	460-00-4	
Dibromofluoromethane (S)	99	%	85-114	1		02/18/08 21:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	81-118	1		02/18/08 21:42	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		02/18/08 21:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 21:42		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-2D **Lab ID: 6035227005** Collected: 02/07/08 14:40 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 21:58	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 21:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 21:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 21:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/18/08 21:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 21:58	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 21:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 21:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 21:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 21:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 21:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 21:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 21:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 21:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 21:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 21:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/18/08 21:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 21:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 21:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 21:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 21:58	107-06-2	
1,2-Dichloroethene (Total)	**26.9**	ug/L	1.0	1		02/18/08 21:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 21:58	75-35-4	
cis-1,2-Dichloroethene	**26.5**	ug/L	1.0	1		02/18/08 21:58	156-59-2	
trans-1,2-Dichloroethene	**0.43J**	ug/L	1.0	1		02/18/08 21:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 21:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 21:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 21:58	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 21:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 21:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 21:58	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 21:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 21:58	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-2D **Lab ID: 6035227005** Collected: 02/07/08 14:40 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 21:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 21:58	79-34-5	
Tetrachloroethene	**3.8**	ug/L	1.0	1		02/18/08 21:58	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 21:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 21:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 21:58	79-00-5	
Trichloroethene	**7.3**	ug/L	1.0	1		02/18/08 21:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 21:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 21:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 21:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 21:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 21:58	1330-20-7	
4-Bromofluorobenzene (S)	100	%	85-119	1		02/18/08 21:58	460-00-4	
Dibromofluoromethane (S)	99	%	85-114	1		02/18/08 21:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	81-118	1		02/18/08 21:58	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		02/18/08 21:58	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 21:58		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-3S **Lab ID: 6035227006** Collected: 02/07/08 14:25 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 22:15	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 22:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 22:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 22:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/18/08 22:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 22:15	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 22:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 22:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 22:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 22:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 22:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 22:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 22:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 22:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 22:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 22:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 22:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/18/08 22:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 22:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 22:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 22:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 22:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 22:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 22:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/18/08 22:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 22:15	107-06-2	
1,2-Dichloroethene (Total)	**5.3**	ug/L	1.0	1		02/18/08 22:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 22:15	75-35-4	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	1		02/18/08 22:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/18/08 22:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 22:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 22:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 22:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 22:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 22:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 22:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 22:15	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 22:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 22:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 22:15	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 22:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 22:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 22:15	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-3S **Lab ID: 6035227006** Collected: 02/07/08 14:25 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 22:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 22:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 22:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 22:15	79-34-5	
Tetrachloroethene	**50.1**	ug/L	1.0	1		02/18/08 22:15	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 22:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 22:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 22:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 22:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 22:15	79-00-5	
Trichloroethene	**16.5**	ug/L	1.0	1		02/18/08 22:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 22:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 22:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 22:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 22:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 22:15	1330-20-7	
4-Bromofluorobenzene (S)	101	%	85-119	1		02/18/08 22:15	460-00-4	
Dibromofluoromethane (S)	100	%	85-114	1		02/18/08 22:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	81-118	1		02/18/08 22:15	17060-07-0	
Toluene-d8 (S)	99	%	82-114	1		02/18/08 22:15	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 22:15		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-3D **Lab ID: 6035227007** Collected: 02/07/08 14:00 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 23:04	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 23:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 23:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 23:04	74-97-5	
Bromodichloromethane	**1.6**	ug/L	1.0	1		02/18/08 23:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 23:04	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 23:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 23:04	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 23:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 23:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 23:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 23:04	75-00-3	
Chloroform	**1.3**	ug/L	1.0	1		02/18/08 23:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 23:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 23:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 23:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 23:04	96-12-8	
Dibromochloromethane	**1.9**	ug/L	1.0	1		02/18/08 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 23:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 23:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 23:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/18/08 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 23:04	107-06-2	
1,2-Dichloroethene (Total)	**17.5**	ug/L	1.0	1		02/18/08 23:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 23:04	75-35-4	
cis-1,2-Dichloroethene	**17.2**	ug/L	1.0	1		02/18/08 23:04	156-59-2	
trans-1,2-Dichloroethene	**0.32J**	ug/L	1.0	1		02/18/08 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 23:04	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 23:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 23:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 23:04	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 23:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 23:04	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: MW-3D **Lab ID: 6035227007** Collected: 02/07/08 14:00 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 23:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 23:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 23:04	79-34-5	
Tetrachloroethene	**6.0**	ug/L	1.0	1		02/18/08 23:04	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 23:04	79-00-5	
Trichloroethene	**4.7**	ug/L	1.0	1		02/18/08 23:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 23:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 23:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 23:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 23:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 23:04	1330-20-7	
4-Bromofluorobenzene (S)	101	%	85-119	1		02/18/08 23:04	460-00-4	
Dibromofluoromethane (S)	99	%	85-114	1		02/18/08 23:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-118	1		02/18/08 23:04	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		02/18/08 23:04	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 23:04		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: TRIP BLANK **Lab ID: 6035227008** Collected: 02/07/08 00:00 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 23:21	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 23:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 23:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 23:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/18/08 23:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 23:21	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 23:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 23:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 23:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 23:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 23:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 23:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 23:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 23:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 23:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 23:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 23:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/18/08 23:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 23:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 23:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 23:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/18/08 23:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 23:21	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		02/18/08 23:21	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 23:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/18/08 23:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/18/08 23:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 23:21	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 23:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 23:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 23:21	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 23:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 23:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 23:21	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: TRIP BLANK **Lab ID: 6035227008** Collected: 02/07/08 00:00 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 23:21	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 23:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 23:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 23:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/18/08 23:21	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 23:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 23:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 23:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/18/08 23:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 23:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 23:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 23:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 23:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 23:21	1330-20-7	
4-Bromofluorobenzene (S)	101	%	85-119	1		02/18/08 23:21	460-00-4	
Dibromofluoromethane (S)	100	%	85-114	1		02/18/08 23:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	81-118	1		02/18/08 23:21	17060-07-0	
Toluene-d8 (S)	99	%	82-114	1		02/18/08 23:21	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 23:21		

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: BLIND DUPLICATE **Lab ID: 6035227009** Collected: 02/07/08 00:00 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		02/18/08 23:37	67-64-1	
Benzene	ND	ug/L	1.0	1		02/18/08 23:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/18/08 23:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/18/08 23:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/18/08 23:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/18/08 23:37	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/18/08 23:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/18/08 23:37	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		02/18/08 23:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/18/08 23:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/18/08 23:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/18/08 23:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/18/08 23:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/18/08 23:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 23:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/18/08 23:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/18/08 23:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/18/08 23:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/18/08 23:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/18/08 23:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/18/08 23:37	75-71-8	
1,1-Dichloroethane	**6.9**	ug/L	1.0	1		02/18/08 23:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/18/08 23:37	107-06-2	
1,2-Dichloroethene (Total)	**49.8**	ug/L	1.0	1		02/18/08 23:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/18/08 23:37	75-35-4	
cis-1,2-Dichloroethene	**49.1**	ug/L	1.0	1		02/18/08 23:37	156-59-2	
trans-1,2-Dichloroethene	**0.79J**	ug/L	1.0	1		02/18/08 23:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/18/08 23:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/18/08 23:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/18/08 23:37	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/18/08 23:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/18/08 23:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/18/08 23:37	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		02/18/08 23:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/18/08 23:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/18/08 23:37	1634-04-4	

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ANALYTICAL RESULTS

Project: BRENNTAG
Pace Project No.: 6035227

Sample: BLIND DUPLICATE **Lab ID: 6035227009** Collected: 02/07/08 00:00 Received: 02/09/08 07:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		02/18/08 23:37	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	103-65-1	
Styrene	ND	ug/L	1.0	1		02/18/08 23:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 23:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/18/08 23:37	79-34-5	
Tetrachloroethene	**94.7**	ug/L	1.0	1		02/18/08 23:37	127-18-4	
Toluene	ND	ug/L	1.0	1		02/18/08 23:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/18/08 23:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/18/08 23:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/18/08 23:37	79-00-5	
Trichloroethene	**9.1**	ug/L	1.0	1		02/18/08 23:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/18/08 23:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/18/08 23:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/18/08 23:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		02/18/08 23:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/18/08 23:37	1330-20-7	
4-Bromofluorobenzene (S)	101	%	85-119	1		02/18/08 23:37	460-00-4	
Dibromofluoromethane (S)	100	%	85-114	1		02/18/08 23:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	81-118	1		02/18/08 23:37	17060-07-0	
Toluene-d8 (S)	99	%	82-114	1		02/18/08 23:37	2037-26-5	
Preservation pH	**1.0**		0.10	1		02/18/08 23:37		

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

QC Batch: MSV/13002
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6035227001

METHOD BLANK: 287230
Associated Lab Samples: 6035227001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,1-Dichloropropene	ug/L	ND	1.0	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	2.5	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	
1,3-Dichlorobenzene	ug/L	ND	1.0	
1,3-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2,2-Dichloropropane	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	10.0	
2-Chlorotoluene	ug/L	ND	1.0	
2-Hexanone	ug/L	ND	10.0	
4-Chlorotoluene	ug/L	ND	1.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	
Acetone	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromobenzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	1.0	
Carbon disulfide	ug/L	ND	5.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

METHOD BLANK: 287230

Associated Lab Samples: 6035227001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/L	ND	1.0	
Dichlorodifluoromethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	
Methyl-tert-butyl ether	ug/L	1.2	1.0	B-
Methylene chloride	ug/L	ND	1.0	
n-Butylbenzene	ug/L	ND	1.0	
n-Propylbenzene	ug/L	ND	1.0	
Naphthalene	ug/L	ND	10.0	
p-Isopropyltoluene	ug/L	ND	1.0	
sec-Butylbenzene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
tert-Butylbenzene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	91	81-118	
4-Bromofluorobenzene (S)	%	94	85-119	
Dibromofluoromethane (S)	%	95	85-114	
Toluene-d8 (S)	%	99	82-114	

LABORATORY CONTROL SAMPLE: 287231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.9	99	77-127	
1,1,1-Trichloroethane	ug/L	10	8.7	87	78-130	
1,1,2,2-Tetrachloroethane	ug/L	10	8.9	89	73-131	
1,1,2-Trichloroethane	ug/L	10	10.3	103	85-126	
1,1-Dichloroethane	ug/L	10	8.5	85	76-124	
1,1-Dichloroethene	ug/L	10	8.3	83	76-129	
1,1-Dichloropropene	ug/L	10	8.8	88	83-125	
1,2,3-Trichlorobenzene	ug/L	10	10.9	109	78-129	
1,2,3-Trichloropropane	ug/L	10	10.3	103	69-117	
1,2,4-Trichlorobenzene	ug/L	10	10.4	104	79-127	
1,2,4-Trimethylbenzene	ug/L	10	9.9	99	82-124	
1,2-Dibromo-3-chloropropane	ug/L	10	8.5	85	62-141	
1,2-Dibromoethane (EDB)	ug/L	10	10.7	107	85-124	
1,2-Dichlorobenzene	ug/L	10	9.5	95	85-123	
1,2-Dichloroethane	ug/L	10	8.5	85	77-129	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

LABORATORY CONTROL SAMPLE: 287231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	19.1	95	81-127	
1,2-Dichloropropane	ug/L	10	8.9	89	82-121	
1,3,5-Trimethylbenzene	ug/L	10	9.5	95	85-122	
1,3-Dichlorobenzene	ug/L	10	9.2	92	84-121	
1,3-Dichloropropane	ug/L	10	9.4	94	86-121	
1,4-Dichlorobenzene	ug/L	10	8.9	89	83-121	
2,2-Dichloropropane	ug/L	10	8.4	84	47-154	
2-Butanone (MEK)	ug/L	20	17.9	89	64-126	
2-Chlorotoluene	ug/L	10	9.1	91	83-125	
2-Hexanone	ug/L	20	18.7	94	65-128	
4-Chlorotoluene	ug/L	10	9.1	91	84-121	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.4	87	64-121	
Acetone	ug/L	20	19.1	96	52-139	
Benzene	ug/L	10	9.9	99	87-117	
Bromobenzene	ug/L	10	9.5	95	83-126	
Bromochloromethane	ug/L	10	9.4	94	82-129	
Bromodichloromethane	ug/L	10	8.7	87	75-127	
Bromoform	ug/L	10	9.7	97	64-133	
Bromomethane	ug/L	10	6.6	66	21-188	
Carbon disulfide	ug/L	20	11.4	57	53-120	
Carbon tetrachloride	ug/L	10	8.7	87	76-131	
Chlorobenzene	ug/L	10	9.9	99	85-120	
Chloroethane	ug/L	10	7.9	79	69-126	
Chloroform	ug/L	10	8.9	89	79-126	
Chloromethane	ug/L	10	6.1	61	44-118	
cis-1,2-Dichloroethene	ug/L	10	9.0	90	79-128	
cis-1,3-Dichloropropene	ug/L	10	8.1	81	76-122	
Dibromochloromethane	ug/L	10	9.0	90	74-121	
Dibromomethane	ug/L	10	9.6	96	75-130	
Dichlorodifluoromethane	ug/L	10	6.9	69	12-132	
Ethylbenzene	ug/L	10	11.1	111	84-123	
Hexachloro-1,3-butadiene	ug/L	10	11.0	110	71-144	
Isopropylbenzene (Cumene)	ug/L	10	8.1	81	72-107	
Methyl-tert-butyl ether	ug/L	10	14.9	149	69-115	L3
Methylene chloride	ug/L	10	8.9	89	74-132	
n-Butylbenzene	ug/L	10	10.5	105	80-126	
n-Propylbenzene	ug/L	10	10.8	108	83-123	
Naphthalene	ug/L	10	17.4	174	61-150	L3
p-Isopropyltoluene	ug/L	10	9.3	93	82-118	
sec-Butylbenzene	ug/L	10	10	100	84-121	
Styrene	ug/L	10	10.2	102	84-128	
tert-Butylbenzene	ug/L	10	10	100	83-124	
Tetrachloroethene	ug/L	10	10.6	106	83-126	
Toluene	ug/L	10	9.2	92	81-124	
trans-1,2-Dichloroethene	ug/L	10	10.1	101	80-130	
trans-1,3-Dichloropropene	ug/L	10	9.1	91	75-122	
Trichloroethene	ug/L	10	9.8	98	80-130	
Trichlorofluoromethane	ug/L	10	7.4	74	65-113	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

LABORATORY CONTROL SAMPLE: 287231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	6.9	69	59-124	
Xylene (Total)	ug/L	30	31.5	105	83-125	
1,2-Dichloroethane-d4 (S)	%			88	81-118	
4-Bromofluorobenzene (S)	%			95	85-119	
Dibromofluoromethane (S)	%			99	85-114	
Toluene-d8 (S)	%			101	82-114	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

QC Batch: MSV/13018 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6035227002, 6035227003, 6035227004, 6035227005, 6035227006, 6035227007, 6035227008, 6035227009

METHOD BLANK: 287935
Associated Lab Samples: 6035227002, 6035227003, 6035227004, 6035227005, 6035227006, 6035227007, 6035227008, 6035227009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,1-Dichloropropene	ug/L	ND	1.0	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	2.5	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	
1,3-Dichlorobenzene	ug/L	ND	1.0	
1,3-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2,2-Dichloropropane	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	10.0	
2-Chlorotoluene	ug/L	ND	1.0	
2-Hexanone	ug/L	ND	10.0	
4-Chlorotoluene	ug/L	ND	1.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	
Acetone	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromobenzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	1.0	
Carbon disulfide	ug/L	ND	5.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

METHOD BLANK: 287935

Associated Lab Samples: 6035227002, 6035227003, 6035227004, 6035227005, 6035227006, 6035227007, 6035227008, 6035227009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/L	ND	1.0	
Dichlorodifluoromethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	
Methyl-tert-butyl ether	ug/L	ND	1.0	
Methylene chloride	ug/L	ND	1.0	
n-Butylbenzene	ug/L	ND	1.0	
n-Propylbenzene	ug/L	ND	1.0	
Naphthalene	ug/L	ND	10.0	
p-Isopropyltoluene	ug/L	ND	1.0	
sec-Butylbenzene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
tert-Butylbenzene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	103	81-118	
4-Bromofluorobenzene (S)	%	101	85-119	
Dibromofluoromethane (S)	%	99	85-114	
Toluene-d8 (S)	%	100	82-114	

LABORATORY CONTROL SAMPLE: 287936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.1	101	77-127	
1,1,1-Trichloroethane	ug/L	10	10.3	103	78-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.5	95	73-131	
1,1,2-Trichloroethane	ug/L	10	9.7	97	85-126	
1,1-Dichloroethane	ug/L	10	9.8	98	76-124	
1,1-Dichloroethene	ug/L	10	10.1	101	76-129	
1,1-Dichloropropene	ug/L	10	10.1	101	83-125	
1,2,3-Trichlorobenzene	ug/L	10	10.6	106	78-129	
1,2,3-Trichloropropane	ug/L	10	9.2	92	69-117	
1,2,4-Trichlorobenzene	ug/L	10	10.1	101	79-127	
1,2,4-Trimethylbenzene	ug/L	10	10.1	101	82-124	
1,2-Dibromo-3-chloropropane	ug/L	10	9.4	94	62-141	
1,2-Dibromoethane (EDB)	ug/L	10	9.7	97	85-124	
1,2-Dichlorobenzene	ug/L	10	10.0	100	85-123	
1,2-Dichloroethane	ug/L	10	10.2	102	77-129	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

LABORATORY CONTROL SAMPLE: 287936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	20.3	102	81-127	
1,2-Dichloropropane	ug/L	10	10	100	82-121	
1,3,5-Trimethylbenzene	ug/L	10	10.2	102	85-122	
1,3-Dichlorobenzene	ug/L	10	9.9	99	84-121	
1,3-Dichloropropane	ug/L	10	9.9	99	86-121	
1,4-Dichlorobenzene	ug/L	10	10	100	83-121	
2,2-Dichloropropane	ug/L	10	9.5	95	47-154	
2-Butanone (MEK)	ug/L	20	16.2	81	64-126	
2-Chlorotoluene	ug/L	10	10.2	102	83-125	
2-Hexanone	ug/L	20	18.9	95	65-128	
4-Chlorotoluene	ug/L	10	9.9	99	84-121	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.6	93	64-121	
Acetone	ug/L	20	18.4	92	52-139	
Benzene	ug/L	10	9.8	98	87-117	
Bromobenzene	ug/L	10	9.9	99	83-126	
Bromochloromethane	ug/L	10	9.9	99	82-129	
Bromodichloromethane	ug/L	10	9.8	98	75-127	
Bromoform	ug/L	10	9.3	93	64-133	
Bromomethane	ug/L	10	10.5	105	21-188	
Carbon disulfide	ug/L	20	13.6	68	53-120	
Carbon tetrachloride	ug/L	10	10.0	100	76-131	
Chlorobenzene	ug/L	10	10.0	100	85-120	
Chloroethane	ug/L	10	9.0	90	69-126	
Chloroform	ug/L	10	9.8	98	79-126	
Chloromethane	ug/L	10	8.0	80	44-118	
cis-1,2-Dichloroethene	ug/L	10	10.1	101	79-128	
cis-1,3-Dichloropropene	ug/L	10	10	100	76-122	
Dibromochloromethane	ug/L	10	9.5	95	74-121	
Dibromomethane	ug/L	10	9.8	98	75-130	
Dichlorodifluoromethane	ug/L	10	7.0	70	12-132	
Ethylbenzene	ug/L	10	10.0	100	84-123	
Hexachloro-1,3-butadiene	ug/L	10	12.8	128	71-144	
Isopropylbenzene (Cumene)	ug/L	10	8.6	86	72-107	
Methyl-tert-butyl ether	ug/L	10	9.6	96	69-115	
Methylene chloride	ug/L	10	9.4	94	74-132	
n-Butylbenzene	ug/L	10	10.7	107	80-126	
n-Propylbenzene	ug/L	10	10	100	83-123	
Naphthalene	ug/L	10	10.1	101	61-150	
p-Isopropyltoluene	ug/L	10	10.1	101	82-118	
sec-Butylbenzene	ug/L	10	10.5	105	84-121	
Styrene	ug/L	10	10	100	84-128	
tert-Butylbenzene	ug/L	10	10.2	102	83-124	
Tetrachloroethene	ug/L	10	10.2	102	83-126	
Toluene	ug/L	10	10.0	100	81-124	
trans-1,2-Dichloroethene	ug/L	10	10.2	102	80-130	
trans-1,3-Dichloropropene	ug/L	10	9.7	97	75-122	
Trichloroethene	ug/L	10	10.1	101	80-130	
Trichlorofluoromethane	ug/L	10	8.9	89	65-113	

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QUALITY CONTROL DATA

Project: BRENNTAG
Pace Project No.: 6035227

LABORATORY CONTROL SAMPLE: 287936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	9.2	92	59-124	
Xylene (Total)	ug/L	30	30.5	102	83-125	
1,2-Dichloroethane-d4 (S)	%			99	81-118	
4-Bromofluorobenzene (S)	%			100	85-119	
Dibromofluoromethane (S)	%			99	85-114	
Toluene-d8 (S)	%			100	82-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 287937 287938

Parameter	Units	6035208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	10	10	8.2	9.1	82	91	50-162	10	26	
Benzene	ug/L	ND	10	10	8.1	9.2	81	92	30-162	12	22	
Chlorobenzene	ug/L	ND	10	10	8.1	9.2	81	92	74-133	12	25	
Toluene	ug/L	ND	10	10	8.2	9.3	82	93	49-143	13	20	
Trichloroethene	ug/L	ND	10	10	8.3	9.4	83	94	71-141	13	28	
1,2-Dichloroethane-d4 (S)	%						98	103	81-118			
4-Bromofluorobenzene (S)	%						101	99	85-119			
Dibromofluoromethane (S)	%						99	101	85-114			
Toluene-d8 (S)	%						100	101	82-114			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 287939 287940

Parameter	Units	6035227006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	10	10	8.7	10.2	87	102	50-162	16	26	
Benzene	ug/L	ND	10	10	8.7	9.7	87	97	30-162	10	22	
Chlorobenzene	ug/L	ND	10	10	8.8	9.8	88	98	74-133	10	25	
Toluene	ug/L	ND	10	10	8.9	9.9	89	99	49-143	11	20	
Trichloroethene	ug/L	16.5	10	10	25.1	26.1	86	96	71-141	4	28	
1,2-Dichloroethane-d4 (S)	%						101	102	81-118			
4-Bromofluorobenzene (S)	%						101	100	85-119			
Dibromofluoromethane (S)	%						100	101	85-114			
Toluene-d8 (S)	%						100	100	82-114			
Preservation pH		1.0			1.0	1.0				0		

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QUALIFIERS

Project: BRENNTAG
Pace Project No.: 6035227

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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

BATCH QUALIFIERS

Batch: MSV/13002

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B- Analyte detected in method blank but was not detected in the associated samples.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRENNTAG
Pace Project No.: 6035227

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6035227001	**PZ-3**	EPA 5030B/8260	MSV/13002		
6035227002	**MW-1S**	EPA 5030B/8260	MSV/13018		
6035227003	**MW-1D**	EPA 5030B/8260	MSV/13018		
6035227004	**MW-2S**	EPA 5030B/8260	MSV/13018		
6035227005	**MW-2D**	EPA 5030B/8260	MSV/13018		
6035227006	**MW-3S**	EPA 5030B/8260	MSV/13018		
6035227007	**MW-3D**	EPA 5030B/8260	MSV/13018		
6035227008	**TRIP BLANK**	EPA 5030B/8260	MSV/13018		
6035227009	**BLIND DUPLICATE**	EPA 5030B/8260	MSV/13018		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

936238

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Forrester Group	Report To: Kris Gamble	Attention: Kris Gamble
Address: 605 N Boonville	Copy To:	Company Name:
Springfield MO 65806		Address:
Email To: Kris@forrestergroup.com	Purchase Order No.:	Pace Quote Reference:
Phone / Fax	Project Name: Brewtag	Pace Project Manager:
Requested Due Date/TAT: Normal	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N) SDC 8260	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D. 60355227
1	PZ-3	WT	G			2/7/08	1350		3				3					✓		3(DG9H) 001
2	MW-1S	WT	G			2/7/08	1520		3				3					✓		002
3	MW-2D	WT	G			2/7/08	1505		3				3					✓		003
4	MW-2S	WT	G			2/7/08	1450		3				3					✓		004
5	MW-2D	WT	G			2/7/08	1440		3				3					✓		005
6	MW-3S MS MSD	WT	G			2/7/08	1425		9				9					✓		9(DG9H) 006
7	MW-3D	WT	G			2/7/08	1400		3				3					✓		3(DG9H) 007
8	TRIP BLANK	WT							2				2					✓		2(DG9H) 008
9	BIND Duplicate	WT	G			2/7/08			3				3					✓		3(DG9H) 009
10																				
11																				
12																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
David Kung GSI	2/8/08	1630	[signature]	2/8/08	0715	3.1

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Kung

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/8/08

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

ALLQ020rev.3,31Mar05

Sample Condition Upon Receipt

Pace Analytical

Client Name: Forrester Project # C035227

Optional
Proj. Due Date:
Proj. Name: 2/20/08
Brontag

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other ESI

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foams

Thermometer Used T-168 T-169 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.1 ~~Biological Tissue is Frozen: Yes No~~

Date and Initials of person examining contents: 2/9/08 [illegible] 0815

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15. P2-3 (1 of 3)
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 123107-3		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [illegible] 2/9 Date: _____

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

REPORT FOR LEVEL 2 DATA VERIFICATION

PROJECT IDENTIFICATION

Project Name:	Brenntag-Wichita, KS
Laboratory:	Pace Analytical, Lanexa, KS
Laboratory Project ID (SDG):	6035227
Sample Collection Dates:	02/07/2008
Sample Analysis Dates:	02/15/2008-2/18/2008
Sample Matrix:	Groundwater
Analytical Fractions:	☒ VOC ☐ SVOC ☐ PEST/PCB ☐ TPH
Samples Analyzed:	See attached list
Validated By:	Sara Garretson, Associate (Name, Title) — Sara Garretson (Signature, Date) 05/23/08

SUMMARY

Item #	Review Item	Acceptable Yes	Acceptable No	Review Tasks
1.	Chain of Custody	X		Confirm relinquish & receipt signatures.
2.	Case Narrative	X		Review for items noted by the laboratory.
3.	Sample Condition	X		Confirm samples in acceptable condition and no discrepancies noted.
4.	Methods Requested	X		Confirm the following: 1. Analyses ordered match workplan. 2. Lab provided all methods ordered.
5.	Analytes Requested	X		Confirm the following: 1. Analytes ordered match workplan. 2. Lab provided all analytes ordered.
6.	Holding Times	X		Confirm laboratory performed extractions and analyses within method- required holding times.
7.	Blanks	X		Confirm the following: 1. No detections in laboratory (method) blanks. 2. No detections in trip blanks (*VOCs only*). 3. No detections in equipment blanks. 4. Equipment/Trip blanks collected at workplan-required frequency.
8.	Surrogates	X		Confirm the following (*organic analyses only*): 1. Surrogates analyzed. 2. Surrogate recovery within QC limits.
9.	MS/MSDs	X		Confirm the following: 1. MS/MSDs at frequency specified in workplan. 2. MS percent recovery within lab specified limits. 3. Organic MSD relative percent difference (RPD) within limits. 4. Inorganic lab replicate RPD within limits.
10.	LCS/LCSD	X		Confirm the following (low-level water analyses only): 1. LCS analyzed. 2. LCS/LCSD recovery within lab specified limits.

Item #	Review Item	Acceptable		Review Tasks
		Yes	No	
11.	Field Duplicates	N/A		Confirm: 1. Field duplicates collected at required frequency. 2. Field duplicate RPD within acceptable limits.

COMMENTS AND REQUIRED ACTIONS Comments are provided for any items that need additional explanation (referenced by item number above).

Item #	Comment	
11.	Duplicate Sample Blind Duplicate	Parent Sample MW-2S

Acceptance criteria were 35% for water samples. Precision was acceptable.

OVERALL ASSESSMENT OF DATA

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	X		
2. Precision	X		
3. Accuracy	X		
4. Representativeness	X		
5. Comparability	X		
6. Completeness	X		
7. Suitability for Intended Use	X		

Pace Analytical®

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

936238

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Forrester Group	Report To: Kris Gamble	Attention: Kris Gamble
Address: 605 N Boonville	Copy To:	Company Name:
Springfield MO 65806		Address:
Email To: Kris@forrestergroup.com	Purchase Order No.:	Pace Quote Reference:
Phone / Fax	Project Name: Brewtag	Pace Project Manager:
Requested Due Date/TAT: Normal	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC 8260	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	PZ-3	WT	G			2/7/08	1350		3				3						✓		3(DG9H) 001
2	MW-1S	WT	G			2/7/08	1520		3				3						✓		002
3	MW-2D	WT	G			2/7/08	1505		3				3						✓		003
4	MW-2S	WT	G			2/7/08	1450		3				3						✓		004
5	MW-2D	WT	G			2/7/08	1440		3				3						✓		005
6	MW-3S MS MSD	WT	G			2/7/08	1425		9				9						✓		9(DG9H) 006
7	MW-3D	WT	G			2/7/08	1400		3				3						✓		3(DG9H) 007
8	Trip BLANK	WT							2				2						✓		2(DG9H) 008
9	Blind Duplicate	WT	G			2/7/08			3				3						✓		3(DG9H) 009
10																					
11																					
12																					

Pace Project Number / Lab I.D: C035227

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
David Kung GSI	2/8/08	1630	[signature]	2/8/08	0715	3.1		Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Kung

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/8/08

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

ALLQ020rev.3,31Mar05

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 24, 2008

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: BRENNTAG
Pace Project No.: 6035227

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: BRENNTAG
Pace Project No.: 6035227

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6035227001	**PZ-3**	Water	02/07/08 13:50	02/09/08 07:15
6035227002	**MW-1S**	Water	02/07/08 15:20	02/09/08 07:15
6035227003	**MW-1D**	Water	02/07/08 15:05	02/09/08 07:15
6035227004	**MW-2S**	Water	02/07/08 14:50	02/09/08 07:15
6035227005	**MW-2D**	Water	02/07/08 14:40	02/09/08 07:15
6035227006	**MW-3S**	Water	02/07/08 14:25	02/09/08 07:15
6035227007	**MW-3D**	Water	02/07/08 14:00	02/09/08 07:15
6035227008	**TRIP BLANK**	Water	02/07/08 00:00	02/09/08 07:15
6035227009	**BLIND DUPLICATE**	Water	02/07/08 00:00	02/09/08 07:15

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Appendix G

First Quarter 2011, Quarterly Progress Report, April 29, 2011

April 29, 2011

Mr. Chris Carey
Bureau of Environmental Remediation
Kansas Department of Health and Environment
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367

Dear Mr. Carey:

RE: BRENNTAG SOUTHWEST, WICHITA, KS – 1520 NORTH BARWISE
FIRST QUARTER 2011, QUARTERLY PROGRESS REPORT

In accordance with the December 9, 2002, Unilateral Order (Order) issued by the Kansas Department of Health and the Environment (KDHE) to Brenntag, Inc. (Brenntag), this letter provides a Quarterly Progress Report (Progress Report) to the KDHE regarding the status of ongoing work at the Brenntag facility located at 1520 North Barwise in Wichita, Kansas (Site).

The intent of this Progress Report is to describe actions, progress, and status of projects that have been taken toward achieving compliance with the Order and to identify any requirements that were not completed and/or any potential problems.

The period of time covered by this Progress Report is January 1 to March 31, 2011. The next Progress Report will be submitted on or before July 31, 2011, for the time period from April 1 to June 30, 2011.

Scope of Work Performed

Work performed during the first quarter included execution of the December 16, 2010 Work Plan (KDHE approval January 14, 2011) to conduct further environmental characterization of off-site groundwater downgradient of the Brenntag facility. The objectives of the work plan were to:

- characterize unconsolidated sediments overlying bedrock through with groundwater may flow;
- evaluate the direction of groundwater flow;
- evaluate the nature and extent of impacted groundwater attributable to Brenntag; and
- evaluate whether other sources of groundwater impact may be indicated.

Field work was performed March 21 – 24, 2011. A Kansas One-Call utility clearance was conducted prior to drilling work. An “air knife” was used to drill the upper 5 feet at each location to determine whether or not utilities were present.

605 N. Boonville Avenue • Springfield, MO 65806 • (417) 864-6444 • Fax: (417) 864-6445

Direct Push Technology Data Collection

Direct push technology (DPT) data collection methods were utilized to investigate three proposed locations, including one location on Brenntag property and two locations the City right-of-way (ROW) along Mosley Street. The DPT data collection methods include: membrane interface probe (MIP); hydraulic profiling tool (HPT); and electrical conductivity logging (EC).

A site map is shown on Figure 1. MIP-1 was pushed adjacent to MW-3 s/d, MIP-2 was converted into MW-5 s/d, and MIP-3 was converted into MW-6 s/d.

MIP and EC data was collected simultaneously at each location. MIP is used to characterize total volatile organic compounds (VOCs) in the groundwater through which the tool is advanced. HPT is used to evaluate the hydraulic conductivity of the soil formation and EC logging is utilized to determine soil types. The MIP, HPT, and EC probes were advanced from the ground surface to refusal. The MIP, EC, and HPT logs are included in Attachment 1.

The two DPT screening locations along Mosely Street also served as monitoring well locations. Well pairs (shallow and deep) were installed at each location. The four groundwater monitoring wells were installed on City ROW and constructed using 2-inch PVC screen and riser pipe in accordance with plans previously approved by KDHE. The monitoring well locations are shown in Figure 1.

Brenntag requested waivers from the KDHE-Bureau of Water for flush mount completions in high traffic areas and for wells in which less than 20 feet of grout will be used as an annular seal. The Bureau of Water waiver, water well records, and monitoring well construction logs are included in Attachment 2.

The on-site piezometer (PZ-3) was also abandoned during field activities. Two monitoring wells (shallow and deep) were installed adjacent to PZ-3.

Wells were developed after installation and surveyed by a Kansas registered surveyor. Investigation derived wastes are staged in drums on Brenntag property pending receipt of analytical results after which they will be disposed. The groundwater monitoring wells were sampled April 4, 2011.

Monitoring wells were sampled to evaluate groundwater quality. The monitoring well sampling field forms are provided in Attachment 3. The wells were constructed as follows:

Well Name	Screen Depth	Total Depth
MW-1s	15.0 to 25.0	25.5
MW-1d	32.0 to 37.0	37.5
MW-2s	15.0 to 25.0	25.5
MW-2d	31.0 to 36.0	36.5
MW-3s	15.0 to 25.0	25.5
MW-3d	33.0 to 38.0	38.5
MW-4s	15.0 to 25.0	25.4
MW-4d	32.5 to 37.5	38.0
MW-5s	16.0 to 26.0	26.2
MW-5d	29.0 to 34.0	34.2
MW-6s	16.0 to 26.0	26.4
MW-6d	28.0 to 33.0	33.6

Note: PZ-3 was abandoned in March 2011.

Groundwater wells were sampled using a no-purge HydraSleeve® technique. HydraSleeve® samplers were deployed in the wells during the previous quarter's sampling event. Groundwater samples were collected in laboratory supplied sample bottles, packaged on ice with a completed chain of custody and trip blank and submitted to the analytical laboratory by overnight courier for analysis of VOCs. Samples were sent to Accutest Laboratory Southeast in Orlando, Florida (Kansas Certification Number E-10327). A two-week analytical turnaround time was requested. The next groundwater sampling event will be conducted in June 2011.

In accordance with the December 16, 2010, work plan, the scope of quarterly groundwater sampling was modified during the first and second quarter of 2011 to also include certain water quality parameters and compound specific isotope analysis (CSIA). Water quality samples were submitted to Accutest Laboratory with the VOC samples. CSIA samples were submitted by overnight courier to Zymax Forensics laboratory in Escondido, CA. CSIA sample analysis requires a "1-month" turnaround, and so are not including in this report.

The following table shows the groundwater sample collection and analyses currently proposed in 2011.

Sampling Frequency	Q1, Q2, Q3 Q4	Q1 & Q2	Q1 & Q2	Q1 & Q2
Well	**Volatile Organic Compounds HydraSleeve®**	**Volatile Organic Compounds Low-Flow Sampling**	**Water Quality Parameters Low-Flow Sampling**	**Carbon & Chlorine Stable Isotopes Low-Flow Sampling**
Site Well MW-1s	x			
Site Well MW-1d	x			
Site Well MW-2s	x			
Site Well MW-2d	x			
Site Well MW-3s	x	x	x	x
Site Well MW-3d	x	x	x	x
Site Well MW-4s	x		x	x
Site Well MW-4d	x		x	x
Off-Site Well MW-5s	x	x	x	x
Off-Site Well MW-5d	x	x	x	x
Off-Site Well MW-6s	x	x	x	x
Off-Site Well MW-6d	x	x	x	x

Changes to December 16, 2010, Work Plan

The following bullets are changes to the December 16, 2010 work plan, based on either KDHE comments (January 14, 2011 work plan approval letter) or field conditions.

- Monitoring well screens were installed from 16 to 26 feet below grade in off-site wells along Mosley Street based on data collected during previous off-site DPT investigations (March 2009). Brenntag proposed to install shallow wells to a depth of 25 feet below grade. KDHE requested that the well screen be installed from 16 to 26 feet to ensure that the previous sample interval is represented. For MW-4s and MW-4d (on-site replacement wells for PZ-3, the total depth of 25 feet below grade remained consistent with other on-site wells).

- Brenntag proposed to collect samples for analysis of isotopes and water quality parameters during the first and third quarterly sampling events of 2011. KDHE requested such samples be collected during the first and second sampling events. This sampling frequency change is reflected in the table above.

- Historical VOC monitoring for this site has been with a no-purge HydraSleeve® sampler. KDHE requested VOC sample collection during the first and second sampling events utilize both no-purge HydraSleeve® technology and low-flow sampling

methodology. Low-flow sampling was also used for isotopes and water quality parameter sample collection.

- As previously stated, PZ-3 was replaced with a permanent monitoring well pair during the off-site well installation event.

- The first quarter sampling event was scheduled for March 30, 2011. After site wide water levels were recorded the sampling contractor began sampling HydraSleeves®. It was then discovered that samplers had not been deployed in existing on-site wells after the previous sampling event. Groundwater sampling was then postponed, and HydraSleeve® samplers were deployed in MW-1s/MW-1d, MW-2s/MW-2d, and MW-3s/MW-3d by the sampling contractor. HydraSleeve® samplers had been deployed in newly constructed wells after well development on March 24, 2011 by Foth personnel.

  KDHE was notified of the delay in first quarter sample collection. With agreement from KDHE, sampling was conducted on April 4, 2011, which allowed sufficient time for aquifer conditions to reach equilibrium after sampler deployment. KDHE was on-site during the sampling event to split-samples.

- Based on the sampling frequency table above, MW-4s was selected for VOC sampling with HydraSleeve® technology. During the sampling event the previously deployed sampler did not “open” during HydraSleeve® retrieval, so the VOC sample was collected using low-flow sampling. A HydraSleeve® sampler was redeployed and will be utilized during the next sampling event.

Additional Work Performed

- Brenntag submitted the 4th Quarter Progress Report to KDHE for review on January 19, 2011. On January 25, 2011, KDHE acknowledged receipt and approval of the report.

Results Summary

Groundwater levels measured during this sampling event are shown in Table 1. Figure 1 presents the groundwater gradient and flow direction from the April, 2011 event. Tables 2 through 4 provide a summary of the results and a comparison of the results with the RSK Residential Groundwater Pathway values. Also by request of KDHE a map of chemical distribution in groundwater from the current sampling event is presented in Figures 2 and 3. Graphical trend analyses for each contaminant of concern in key existing monitoring wells are also included in Attachment 4. Graphical trend analyses for off-site monitoring wells will be included in the second quarter progress report. The laboratory report is provided in Attachment 5.

All data were determined to be usable. Data Validation sheets from this event are included with the analytical results in Attachment 5.

A brief discussion of the quarterly groundwater monitoring analytical results and trend analyses are provided below.

- CSIA data was not received from Zymax Forensics laboratory before report production. A summary of the first sampling event CSIA data will be included in the second quarterly progress report.

- Groundwater flow is generally to the southeast.

- Review of groundwater analytical results for samples collected using HydraSleeve® and low-flow sampling technologies indicates that analytical results are comparable and generally within one order of magnitude.

- Groundwater analytical results did not exceed the Residential RSK values for groundwater in the following monitoring wells: MW-1s; MW-1d; MW-2d; MW-4s; and MW-4d.

- Groundwater analytical results did exceed the Residential RSK values for groundwater for one or more chemicals of concern for the following wells: MW-2s (for PCE); MW-3s (for PCE and TCE); MW-3d (duplicate sample for PCE); MW-5s (for PCE and TCE); MW-5d (for TCE, DCE and VC); MW-6s (for PCE, TCE and VC); and MW-6d (for TCE).

- Since sampling began in December 2003, the concentration of PCE and TCE in on-site wells has generally declined. In well MW-3d, cis-1,2-dichloroethene has generally increased indicating possible TCE degradation.

- As shown in Figure 3, shallow-groundwater PCE results from on-site monitoring wells (MW-1s, MW-2s, MW-3s, and MW-4s) range from less than 0.001 mg/L to 0.0149 mg/L. Off-site monitoring wells (MW-5s and MW-6s) show PCE concentrations ranging from 0.0225 mg/L to 0.0279 mg/L. As shown in Figure 2, shallow-groundwater TCE results from on-site monitoring wells range from 0.0011 to 0.0063 mg/L. Off-site monitoring wells show TCE concentrations ranging from 0.0115 to 0.0317 mg/L. Thus PCE and TCE results in shallow wells appear to be higher at off-site locations than at on-site locations. The meaning of these results is uncertain at this time and will depend on future results.

- As shown in Figure 3, deep-groundwater PCE results from on-site monitoring wells (MW-1s, MW-2s, MW-3s, and MW-4s) range from less than 0.001 mg/L to 0.00069J mg/L. Off-site monitoring wells (MW-5s and MW-6s) show PCE concentrations ranging from 0.00066J mg/L to 0.00072J mg/L. Thus PCE does not appear to be of concern in deep groundwater across the current study area.

- As shown in Figure 2, deep-groundwater TCE results from on-site monitoring wells range from 0.0011 to 0.0039 mg/L. Off-site monitoring wells show TCE concentrations ranging from 0.0108 to 0.0126 mg/L. Thus TCE results in deep wells appear to be higher at off-site locations than at on-site locations. The meaning of these results is uncertain at this time and will depend on future results.

Work Proposed

The following is proposed for the next reporting period.

- The groundwater monitoring wells scheduled to be sampled during the month of June, 2011. KDHE will receive a notification of field activities at least 10 working days prior to the event.

- After receiving the CSIA data, Foth will prepare summary text to be included in the second quarter progress report. The summary will include interpretation of CSIA data, MIP/EC/HPT logs, and the additional water quality data.

Issues/Concerns

No issues or concerns have been identified at this time.

If you have any questions or comments regarding this report, please call me at (417) 864-6444, extension 3621, or Kris Gamble at extension 3630.

Sincerely,

Foth Infrastructure & Environment, LLC

Robert M. Kick

Robert M. Kick, L.G.
Senior Project Manager

Kris Gamble

Kris Gamble
Project Environmental Specialist

cc: John Manchester, Foth Infrastructure & Environment, LLC
Shawn P. Wiram, Brenntag, Inc.

ROBERT M. KICK
LICENSED
556
KANSAS
GEOLOGIST

4-29-2011

Tables

Table 1
Groundwater Elevations
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

MP Elevation (ft msl)	MW-1s		MW-1d		MW-2s		MW-2d		MW-3s		MW-3d		PZ-3	
	1305.20		1305.17		1306.54		1306.44		1306.54		1306.54		1305.72	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
February 7, 2008	11.99	1293.21	11.95	1293.22	13.60	1292.94	13.51	1292.93	13.61	1292.93	13.50	1293.04	13.25	1292.47
May 6, 2008	11.59	1293.61	11.52	1293.65	13.22	1293.32	13.10	1293.34	13.20	1293.34	13.21	1293.33	12.87	1292.85
August 29, 2008	10.51	1294.69	10.43	1294.74	12.13	1294.41	12.03	1294.41	12.11	1294.43	12.11	1294.43	11.78	1293.94
December 22, 2008	10.83	1294.37	10.77	1294.40	12.47	1294.07	12.34	1294.10	12.40	1294.14	12.42	1294.12	12.07	1293.65
March 19, 2009	11.31	1293.89	11.26	1293.91	12.92	1293.62	12.82	1293.62	12.90	1293.64	12.89	1293.65	12.58	1293.14
June 16, 2009	10.10	1295.10	10.04	1295.13	11.71	1294.83	11.61	1294.83	11.67	1294.87	11.69	1294.85	11.35	1294.37
September 18, 2009	10.28	1294.92	10.21	1294.96	11.89	1294.65	11.79	1294.65	11.86	1294.68	11.86	1294.68	11.53	1294.19
December 23, 2009	11.01	1294.19	10.95	1294.22	12.62	1293.92	12.50	1293.94	12.58	1293.96	12.57	1293.97	12.28	1293.44
March 11, 2010	11.33	1293.87	11.27	1293.90	12.94	1293.60	12.84	1293.60	12.90	1293.64	12.91	1293.63	12.61	1293.11
June 28, 2010	10.92	1294.28	10.85	1294.32	12.54	1294.00	12.44	1294.00	12.51	1294.03	12.53	1294.01	12.24	1293.48
September 10, 2010	11.42	1293.78	11.35	1293.82	13.02	1293.52	12.92	1293.52	13.00	1293.54	12.98	1293.56	12.70	1293.02
December 16, 2010	12.03	1293.17	11.96	1293.21	13.64	1292.90	13.53	1292.91	13.61	1292.93	13.62	1292.92	13.33	1292.39
April 4, 2011	12.49	1292.71	12.42	1292.75	14.06	1292.48	13.91	1292.53	14.02	1292.52	14.03	1292.51	Abandoned	

MP - Measuring Point
MSL - Mean Sea Level
NC - Monitoring well not constructed
PZ-3 was abandoned in March 2011

Table 1
Groundwater Elevations
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

MP Elevation (ft msl)	MW-4s		MW-4d		MW-5s		MW-5d		MW-6s		MW-6d	
	1306.17		1306.15		1304.84		1304.97		1304.74		1304.74	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
February 7, 2008	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
May 6, 2008	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
August 29, 2008	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
December 22, 2008	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
March 19, 2009	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
June 16, 2009	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
September 18, 2009	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
December 23, 2009	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
March 11, 2010	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
June 28, 2010	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
September 10, 2010	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
December 16, 2010	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
April 4, 2011	13.68	1292.49	13.66	1292.49	12.96	1291.88	12.95	1292.02	12.86	1291.88	12.9	1291.84

MP - Measuring Point
MSL - Mean Sea Level
NC - Monitoring well not constructed
PZ-3 was abandoned in March 2011

Table 2
Groundwater Monitoring
Analytical Data Summary
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

	Well ID	MW-1d													MW-1s												
Chemical Name	RSK for Residential Groundwater Pathway	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011
Acetone	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00022 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.089	ND	ND	ND	ND	ND	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	ND	ND	ND	ND	0.00062 J	ND	ND	0.00023 J	0.00064 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00031 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	--	0.0158	0.0091	0.0233	0.0187	0.0311	0.0631	0.0392	0.0466	0.0103	0.0113	0.0142	0.0270	0.0114	0.0022	0.0063	ND	ND	0.0083	0.0025	ND	0.0014 J	0.0032	ND	ND	ND	0.0032
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	0.0018	ND	0.0013	ND	ND	ND	0.00062 J	0.00025 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	0.0156	0.0091	0.0230	0.0185	0.0307	0.0623	0.0386	0.0460	0.0103	0.0111	0.0140	0.0265	0.0114	0.0022	0.0063	ND	ND	0.0081	0.0025	ND	0.0014 J	0.0032	0.00047 J	0.00061 J	0.00059 J	0.0032
trans-1,2-Dichloroethene	0.1	0.0002 J	ND	0.00027 J	ND	ND	ND	0.00125	0.00066 J	ND	ND	ND	0.00048 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	0.002	0.0014	0.0031	0.0018	0.0016	0.0022	0.00189	0.0018	0.00055 J	0.00068 J	0.00079 J	0.0016	0.0011	0.002	0.0025	0.0010	0.0011	0.0019	ND	ND	0.00075 J	0.00097 J	0.00056 J	0.00051 J	0.00054 J	0.0011
Trichlorofluoromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.002	ND	ND	ND	ND	ND	0.0017	0.00133	0.00074 J	ND	ND	ND	0.00068 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Results mg/L.
J - estimated concentration.
UJ - estimated reporting limit.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 2
Groundwater Monitoring
Analytical Data Summary
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

	Well ID	MW-2d												
Chemical Name	**RSK for Residential Groundwater Pathway**	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011
Acetone	0.26	ND	0.0407	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	0.00024 J
Bromobenzene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Bromoform	0.08	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.004	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.82	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.021	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.022	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.009	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.089	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	0.0014	ND	ND	ND / ND	ND / ND	ND / ND	ND	0.00027 J	0.00038 J	0.00039 J	ND	ND
Chloromethane	0.02	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Dibromomethane	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.075	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.17	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	0.00059 J	0.00040 J	0.00038 J	0.00041 J	0.00036 J	0.00061 J
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	--	0.0269	0.011	0.0421	0.0177	0.0406 / 0.046	0.0431 / 0.0387	0.0389 / 0.0332	0.0452	0.0233	0.0113	0.0148	0.0140	0.0322
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND / ND	ND / ND	0.00105 / ND	0.0011	0.00049 J	ND	ND	0.00035 J	0.00082 J
cis-1,2-Dichloroethene	0.07	0.0265	0.011	0.0414	0.0174	0.040 / 0.0453	0.0425 / 0.0382	0.0382 / 0.0321	0.0443	0.0231	0.0110	0.0145	0.0138	0.0317
trans-1,2-Dichloroethene	0.1	0.00043 J	ND	0.00073 J	ND	ND / ND	ND / ND	ND / 0.00115	0.00091 J	ND	ND	ND	ND	0.00051 J
1,2-Dichloropropane	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.7	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.003	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Styrene	0.1	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0007	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	0.0038	0.0018	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Toluene	1	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	**0.0073**	**0.012**	**0.0151**	**0.0112**	**0.006 / 0.0069**	0.0042 / 0.0037	**0.00522** / 0.00492	0.0048	**0.0051**	**0.0071**	**0.0072**	0.0048	0.0039
Trichlorofluoromethane	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0004	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.002	ND	ND	ND	ND	ND / ND	ND / ND	0.00124 / 0.00105	0.0010	0.00057 J	ND	ND	ND	0.00090 J
Xylene (Total)	--	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND

	MW-2s												
Chemical Name	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011
Acetone	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0074 / 0.0069	ND / ND	ND / ND	0.0014 / 0.0014	ND	ND	ND	ND	ND	ND	0.00030 J	ND	0.00033 J
1,2-Dichloroethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	0.0539 / 0.0498	0.0053 / 0.0047	0.0027 / 0.0017	0.0101 / 0.0103	ND	ND	ND	ND	ND	ND	0.0022	0.0018 J	0.0026
1,1-Dichloroethene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.053 / 0.0491	0.0053 / 0.0047	0.0027 / 0.0017	0.0099 / 0.0101	ND	ND	ND	0.00042 J	ND	0.00052 J	0.0022	0.0018	0.0026
trans-1,2-Dichloroethene	0.00094 J / 0.00079 J	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**0.103 / 0.0947**	**0.0284 / 0.0241**	**0.0192 / 0.0167**	**0.0289 / 0.0289**	**0.0194**	**0.0181**	**0.00646**	**0.0070**	0.0041	0.0045	**0.0064**	**0.0073**	**0.0079**
Toluene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	**0.0098 / 0.0091**	0.0033 / 0.0031	0.0037 / 0.0025	0.0029 / 0.0030	0.0011	0.001	ND	0.00058 J	0.00033 J	0.00047 J	0.0013	0.00089 J	0.0013
Trichlorofluoromethane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND / ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Results mg/L.
J - estimated concentration.
UJ - estimated reporting limit.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 2
Groundwater Monitoring
Analytical Data Summary
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

Well ID		MW-3d													
Chemical Name	RSK for Residential Groundwater Pathway	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011	4/4/2011 (pump)
Acetone	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	0.00062 J	ND / 0.00050 J	0.00036 J	0.00041 J	0.00026 J	ND	0.00033 J / 0.00041 J
Bromobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Bromochloromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	0.0016	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Bromoform	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND UJ	ND	ND	ND	ND
Bromomethane	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
tert-Butylbenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Carbon disulfide	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Chloroethane	0.089	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Chloroform	0.08	0.0013	ND	ND	ND	ND	ND	ND	ND	0.00027 J / ND	ND	ND	ND	ND	ND
Chloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
4-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	0.0019	ND	0.0018	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Dibromomethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	ND	0.0012	0.0011	ND	0.00095 J	0.00048 J / 0.00073 J	0.00062 J	0.00068 J	0.00054 J	0.00040 J	0.00060J / 0.00075 J
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	0.0012	ND / 0.00044 J	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	--	0.0175	0.0631	0.0623	0.0722	0.112	0.116	0.0321	0.0976	0.0307 J / 0.0824 J	0.0511	0.0554 J	0.0529	0.0296	0.487 / 0.0590
1,1-Dichloroethene	0.007	ND	0.0018	0.0016	0.0017	0.0024	0.0021	ND	0.0021	0.00055 J / 0.0015	0.0011	0.0012	0.0012	0.00059 J	0.0011 / 0.0014
cis-1,2-Dichloroethene	0.07	0.0172	0.0615	0.0611	**0.0708**	**0.11**	**0.113**	0.0314	**0.0946**	0.0301 J / **0.0809 J**	0.0498	0.0544 J	0.0521 J	0.0291	0.478 / 0.0580
trans-1,2-Dichloroethene	0.1	0.00032 J	0.0016	0.0012	0.0013	0.0024	0.0027	ND	0.0030	0.00057 J / 0.0015	0.0013	0.0010	0.00083 J	0.00051 J	0.00089 J / 0.0010
1,2-Dichloropropane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND UJ	ND	ND	ND	ND
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND UJ	ND	ND	ND	ND
Ethylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Naphthalene	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Styrene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND UJ	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	**0.006**	0.0012	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	0.00026 J	ND
Toluene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	0.00035 J / 0.00035 J
1,2,3-Trichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	0.0047	**0.0116**	**0.0095**	**0.0069**	**0.0065**	**0.0061**	0.00340	0.0040	0.0023 / 0.0032	0.0036	0.0037	0.0027	0.0026	0.0041 / **0.0050**
Trichlorofluoromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Vinyl chloride	0.002	ND	0.0018	0.0017	**0.0022**	**0.0029**	**0.0027**	0.00104	**0.0028**	0.00096 J / **0.0024**	0.0014	0.0018	0.0015	ND	0.0012 / 0.0016
Xylene (Total)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND

Well ID	MW-3s													
Chemical Name	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011	4/4/2011 (pump)
Acetone	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2-Dichloroethene (Total)	0.0053	0.0074	0.0058	0.0028	0.0015	0.001	ND	ND / ND	ND	0.0013 / 0.0012	0.0016 / 0.0014	ND / ND	0.0024	0.0079
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
cis-1,2-Dichloroethene	0.0053	0.0074	0.0058	0.0028	0.0015	0.001	ND	0.00028 J / 0.00029 J	ND	0.0013 / 0.0012	0.0016 / 0.0014	0.00054 J / 0.00055 J	0.0024	0.0079
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Methyl-tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Tetrachloroethene	**0.0501**	**0.0193**	**0.0119**	**0.011**	**0.0165**	**0.0072**	0.00383	**0.0170 / 0.0145**	**0.0158**	**0.0111 / 0.0102**	**0.0319 / 0.0248**	**0.0146 / 0.0135**	**0.0149**	**0.0072**
Toluene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	0.00024 J
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	0.00033 J / ND	0.00031 J	ND / ND	0.00065 J / 0.00055 J	0.00031 J / 0.00030 J	0.00030J	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Trichloroethene	**0.0165**	**0.0156**	**0.0168**	**0.014**	**0.012**	**0.0071**	0.00478	0.0049 / 0.0045	0.0044	**0.0056 / 0.0053**	**0.0068 / 0.0059**	0.0041 / 0.0040	**0.0063**	**0.0059**
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND
Xylene (Total)	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND / ND	ND / ND	ND / ND	ND	ND

Results mg/L.
J - estimated concentration.
UJ - estimated reporting limit.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 2
Groundwater Monitoring
Analytical Data Summary
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

	Well ID	PZ-3												MW-4s	MW-4d	MW-5s		MW-5d		MW-6s		MW-6d	
Chemical Name	**RSK for Residential Groundwater Pathway**	2/7/2008	5/6/2008	8/29/2008	12/22/2008	3/19/2009	6/19/2009	9/18/2009	12/23/2009	3/11/2010	6/28/2010	9/10/2010	12/16/2010	4/4/2011 (pump)	4/4/2011	4/4/2011	4/4/2011 (pump)	4/4/2011	4/4/2011 (pump)	4/4/2011	4/4/2011 (pump)	4/4/2011	4/4/2011 (pump)
Acetone	0.26	ND	ND	ND	ND	ND	0.0102	ND	ND	ND	ND	0.0946	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00028 J	ND	ND	ND	ND	ND / ND	0.00025 J	ND	ND	0.00028 J	0.00030J
Bromobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Bromochloromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0016	ND	ND	0.0015 / 0.0014	ND	ND	ND	ND	ND
Bromoform	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00042 J	ND	ND	0.00043 J / 0.00038 J	ND	ND	ND	ND	ND
Bromomethane	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	0.0028 J	ND	ND	ND
n-Butylbenzene	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
tert-Butylbenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Carbon disulfide	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1	ND	ND	ND	ND	0.0019	0.0017	0.0011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Chloroethane	0.089	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00079 J	ND	0.0013	ND	ND	0.0013 / 0.0012	ND	ND	ND	0.00035 J	ND
Chloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
4-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	ND	ND	0.0016	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Dibromomethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	0.0014	ND	ND	ND	ND	ND	ND	ND	0.00037 J	ND	0.00071 J	ND	0.00049 J	0.00041 J	0.00036 J	0.00037 J	0.00044 J / 0.00051 J	0.0011	0.00032 J	0.00035 J	0.00064 J	0.00087 J
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	--	0.0079	0.0036	0.0024	ND	0.0012	ND	ND	0.00090 J	ND	ND	0.0023	ND	0.0044	0.0204	0.0233	0.0195	0.0357 / 0.0395	0.0838	0.0235	0.0295	0.0490 J	0.0666
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0051 J	0.00086 J	0.00057 J	0.0013 / 0.0014	0.0025	0.00028 J	0.00042 J	0.0012 J	0.0017
cis-1,2-Dichloroethene	0.07	0.0076	0.0036	0.0024	ND	0.0012	ND	ND	0.00090 J	0.00064 J	0.00065 J	0.0023	0.00048 J	0.0044	0.0201	0.0227	0.0189	0.0351 / 0.0389	**0.0824**	0.0232	0.0291	0.0483 J	ND
trans-1,2-Dichloroethene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00062 J	0.00059 J	0.00059 J / 0.00062 J	0.0013	ND	0.00040J	ND	ND
1,2-Dichloropropane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	0.0483	0.0655
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	0.00077 J	0.0011
Ethylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Naphthalene	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Styrene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	**0.117**	**0.0734**	**0.0209**	**0.0252**	**0.0127**	0.0026	**0.00702**	0.0016	**0.0232**	**0.0122**	**0.0487**	**0.0220**	0.00065 J	0.00069 J	**0.0279**	**0.0361**	0.00066 J / 0.00059 J	0.00037 J	**0.0225**	**0.0266**	0.00072 J	0.00084 J
Toluene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00020 J	ND	ND	0.00022 J	0.00026 J / 0.00025 J	0.00055 J	ND	0.00031 J	0.00024 J	0.00026 J
1,2,3-Trichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	**0.0081**	0.0044	0.0019	0.0015	0.0011	ND	ND	0.00060 J	ND	0.0013	0.0048	0.0015	0.0019	0.002	**0.0317**	**0.0225**	**0.0126 / 0.0133**	**0.0173**	**0.0115**	**0.0134**	**0.0108 J**	**0.014**
Trichlorofluoromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND
Vinyl chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	**0.0023**	ND	ND	ND	ND	0.00044 J	0.00064 J	0.00042 J	0.001 / 0.0011	**0.0023**	**0.0029**	**0.0027**	0.0015	0.0019
Xylene (Total)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND	ND	ND	ND	ND

Results mg/L.
J - estimated concentration.
UJ - estimated reporting limit.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 3
Groundwater Monitoring
Analytical Data - Detects Only
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

Well	Chemical Name	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Dibromochloromethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane
	RSK for Residential Groundwater Pathway	**0.26**	**0.005**	**0.08**	**0.08**	**0.82**		**0.089**	**0.08**	**0.08**	**--**	**0.075**	**0.34**
MW-1d	2/7/2008	ND	ND	0.0012	ND	ND	ND	ND	ND	0.0013	ND	ND	ND
	5/6/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/23/2009	ND	ND	ND	ND	ND	ND	0.0021	ND	ND	ND	ND	0.00062 J
	3/11/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00023 J
	12/16/2010	ND	0.00022 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00064 J
	4/4/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-1s	2/7/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/6/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	0.0016	ND
	3/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/23/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/11/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/16/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/4/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2d	2/7/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/6/2008	0.0407	ND	ND	ND	ND	ND	ND	0.0014	ND	ND	ND	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/2009	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	6/19/2009	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	9/18/2009	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	12/23/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00059 J
	3/11/2010	ND	ND	ND	ND	ND	ND	ND	0.00027 J	ND	ND	ND	0.00040 J
	6/28/2010	ND	ND	ND	ND	ND	ND	ND	0.00038 J	ND	ND	ND	0.00038 J
	9/10/2010	ND	ND	ND	ND	ND	ND	ND	0.00039 J	ND	ND	ND	0.00041 J
	12/16/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00036 J
	4/4/2011	ND	0.00024 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00061 J
MW-2s	2/7/2008	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	0.0074 / 0.0069
	5/6/2008	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	8/29/2008	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	12/22/2008	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	0.0014 / 0.0014
	3/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/23/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/11/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00030 J
	12/16/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/4/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00033 J

Results mg/L.
J - estimated concentration.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 3
Groundwater Monitoring
Analytical Data - Detects Only
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

Well	Chemical Name	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Dibromochloromethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane
	RSK for Residential Groundwater Pathway	**0.26**	**0.005**	**0.08**	**0.08**	**0.82**		**0.089**	**0.08**	**0.08**	**--**	**0.075**	**0.34**
MW-3d	2/7/2008	ND	ND	0.0016	ND	ND	ND	ND	0.0013	0.0019	ND	ND	ND
	5/6/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	0.0018	ND	ND	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012
	6/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011
	9/18/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/23/2009	ND	0.00062 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00095 J
	3/11/2010	ND / ND	ND / 0.00050 J	ND / ND	ND	ND	ND / ND	ND / ND	0.00027 J / ND	ND / ND	ND / ND	ND / ND	0.00048 J / 0.00073 J
	6/28/2010	ND	0.00036 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00062 J
	9/10/2010	ND	0.00041 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00068 J
	12/16/2010	ND	0.00026 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00054 J
	4/4/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00040 J
	4/4/2011 (pump)	ND	0.00033 J / 0.00041 J	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	0.00060 J / 0.00075 J
MW-3s	2/7/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/6/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/19/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/23/2009	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	3/11/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/28/2010	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	9/10/2010	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	12/16/2010	ND / ND	ND / ND	ND / ND	ND	ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND	ND / ND
	4/4/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/4/2011 (pump)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-3	2/7/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014
	5/6/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/2009	ND	ND	ND	ND	ND	0.0019	ND	ND	ND	ND	ND	ND
	6/19/2009	0.0102	ND	ND	ND	ND	0.0017	ND	ND	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	0.0011	ND	ND	ND	ND	ND	ND
	12/23/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/11/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00037 J
	6/28/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2010	0.0946	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00071 J
	12/16/2010	ND	0.00028 J	ND	ND	ND	ND	ND	0.00079 J	ND	ND	ND	ND
MW-4s	4/4/2011 (pump)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00049 J
MW-4d	4/4/2011	ND	ND	0.0016	0.00042 J	ND	ND	ND	0.0013	0.0019	ND	ND	0.00041 J
MW-5s	4/4/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00036 J
	4/4/2011 (pump)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00037 J
MW-5d	4/4/2011	ND	ND	0.0015 / 0.0014	0.00043 J / 0.00038 J	ND	ND	ND	0.0013 / 0.0012	0.0016	ND	ND	0.00044 J / 0.00051 J
	4/4/2011 (pump)	ND	0.00025 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011
MW-6s	4/4/2011	ND	ND	ND	ND	0.0028 J	ND	ND	ND	ND	ND	ND	0.00032 J
	4/4/2011 (pump)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00035 J
MW-6d	4/4/2011	ND	0.00028 J	ND	ND	ND	ND	ND	0.00035 J	ND	ND	ND	0.00064 J
	4/4/2011 (pump)	ND	0.00030 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00087 J

Results mg/L.
J - estimated concentration.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 3
Groundwater Monitoring
Analytical Data - Detects Only
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

Well	Chemical Name	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
	RSK for Residential Groundwater Pathway	0.005	--	0.007	0.07	0.1	0.005	1	0.2	0.005	0.002
MW-1d	2/7/2008	ND	0.0158	ND	0.0156	0.0002 J	ND	ND	ND	0.002	ND
	5/6/2008	ND	0.0091	ND	0.0091	ND	ND	ND	ND	0.0014	ND
	8/29/2008	ND	0.0233	ND	0.0230	0.00027 J	ND	ND	ND	0.0031	ND
	12/22/2008	ND	0.0187	ND	0.0185	ND	ND	ND	ND	0.0018	ND
	3/19/2009	ND	0.0311	ND	0.0307	ND	ND	ND	ND	0.0016	ND
	6/19/2009	ND	0.0631	0.0018	0.0623	ND	ND	ND	ND	0.0022	0.0017
	9/18/2009	ND	0.0392	ND	0.0386	0.00125	ND	ND	ND	0.00189	0.00133
	12/23/2009	ND	0.05	0.00	0.05	0.00066 J	ND	ND	ND	0.0018	0.00074 J
	3/11/2010	ND	0.0103	ND	0.0103	ND	ND	ND	ND	0.00055 J	ND
	6/28/2010	ND	0.0113	ND	0.0111	ND	ND	ND	ND	0.00068 J	ND
	9/10/2010	ND	0.0142	ND	0.0140	ND	ND	ND	ND	0.00079 J	ND
	12/16/2010	ND	0.0270	0.00062 J	0.0265	0.00048 J	ND	ND	ND	0.0016	0.00068 J
	4/4/2011	0.00031 J	0.0114	0.00025 J	0.0114	ND	ND	ND	ND	0.0011	ND
MW-1s	2/7/2008	ND	0.0022	ND	0.0022	ND	ND	ND	ND	0.002	ND
	5/6/2008	ND	0.0063	ND	0.0063	ND	ND	ND	ND	0.0025	ND
	8/29/2008	ND	ND	ND	ND	ND	ND	ND	ND	0.0010	ND
	12/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	ND
	3/19/2009	ND	0.0083	ND	0.0081	ND	ND	ND	ND	0.0019	ND
	6/19/2009	ND	0.0025	ND	0.0025	ND	ND	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/23/2009	ND	0.0014 J	ND	0.0014	ND	ND	ND	ND	0.00075 J	ND
	3/11/2010	ND	0.0032	ND	0.0032	ND	ND	ND	ND	0.00097 J	ND
	6/28/2010	ND	ND	ND	0.00047 J	ND	ND	ND	ND	0.00056 J	ND
	9/10/2010	ND	ND	ND	0.00061 J	ND	ND	ND	ND	0.00051 J	ND
	12/16/2010	ND	ND	ND	0.00059 J	ND	ND	ND	ND	0.00054 J	ND
	4/4/2011	ND	0.0032	ND	0.0032	ND	ND	ND	ND	0.0011	ND
MW-2d	2/7/2008	ND	0.0269	ND	0.0265	0.00043 J	0.0038	ND	ND	**0.0073**	ND
	5/6/2008	ND	0.011	ND	0.011	ND	0.0018	ND	ND	**0.012**	ND
	8/29/2008	ND	0.0421	ND	0.0414	0.00073 J	ND	ND	ND	**0.0151**	ND
	12/22/2008	ND	0.0177	ND	0.0174	ND	ND	ND	ND	**0.0112**	ND
	3/19/2009	ND / ND	0.0406 / 0.046	ND / ND	0.040 / 0.0453	ND / ND	ND / ND	ND	ND / ND	**0.006 / 0.0069**	ND / ND
	6/19/2009	ND / ND	0.0431 / 0.0387	ND / ND	0.0425 / 0.0382	ND / ND	ND / ND	ND	ND / ND	0.0042 / 0.0037	ND / ND
	9/18/2009	ND / ND	0.0389 / 0.0332	0.00105 / ND	0.0382 / 0.0321	ND / 0.00115	ND / ND	ND	ND / ND	**0.00522** / 0.00492	0.00124 / 0.00105
	12/23/2009	ND	0.0452	0.0011	0.0443	0.00091 J	ND	ND	ND	0.0048	0.0010
	3/11/2010	ND	0.0233	0.00049 J	0.0231	ND	ND	ND	ND	**0.0051**	0.00057 J
	6/28/2010	ND	0.0113	ND	0.011	ND	ND	ND	ND	**0.0071**	ND
	9/10/2010	ND	0.0148	ND	0.0145	ND	ND	ND	ND	**0.0072**	ND
	12/16/2010	ND	0.0140	0.00035 J	0.0138	ND	ND	ND	ND	0.0048	ND
	4/4/2011	ND	0.0322	0.00082 J	0.0317	0.00051 J	ND	ND	ND	0.0039	0.00090 J
MW-2s	2/7/2008	ND / ND	0.0539 / 0.0498	ND / ND	0.053 / 0.0491	0.00094 / 0.00079 J	**0.103 / 0.0947**	ND	ND / ND	**0.0098 / 0.0091**	ND / ND
	5/6/2008	ND / ND	0.0053 / 0.0047	ND / ND	0.0053 / 0.0047	ND / ND	**0.0284 / 0.0241**	ND	ND / ND	0.0033 / 0.0031	ND / ND
	8/29/2008	ND / ND	0.0027 / 0.0017	ND / ND	0.0027 / 0.0017	ND / ND	**0.0192 / 0.0167**	ND	ND / ND	0.0037 / 0.0025	ND / ND
	12/22/2008	ND / ND	0.0101 / 0.0103	ND / ND	0.0099 / 0.0101	ND / ND	**0.0289 / 0.0289**	ND	ND / ND	0.0029 / 0.0030	ND / ND
	3/19/2009	ND	ND	ND	ND	ND	**0.0194**	ND	ND	0.0011	ND
	6/19/2009	ND	ND	ND	ND	ND	**0.0181**	ND	ND	0.001	ND
	9/18/2009	ND	ND	ND	ND	ND	**0.00646**	ND	ND	ND	ND
	12/23/2009	ND	ND	ND	0.00042 J	ND	**0.0070**	ND	ND	0.00058 J	ND
	3/11/2010	ND	ND	ND	ND	ND	0.0041	ND	ND	0.00033 J	ND
	6/28/2010	ND	ND	ND	0.00052 J	ND	0.0045	ND	ND	0.00047 J	ND
	9/10/2010	ND	0.0022	ND	0.0022	ND	**0.0064**	ND	ND	0.0013	ND
	12/16/2010	ND	0.0018 J	ND	0.0018	ND	**0.0073**	ND	ND	0.00089 J	ND
	4/4/2011	ND	0.0026	ND	0.0026	ND	**0.0079**	ND	ND	0.0013	ND

Results mg/L.
J - estimated concentration.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 3
Groundwater Monitoring
Analytical Data - Detects Only
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

Well	Chemical Name	1,2-Dichloroethane	1,2-Dichloroethene (Total)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
	RSK for Residential Groundwater Pathway	**0.005**	**--**	**0.007**	**0.07**	**0.1**	**0.005**	**1**	**0.2**	**0.005**	**0.002**
MW-3d	2/7/2008	ND	0.0175	ND	0.0172	0.00032 J	**0.006**	ND	ND	0.0047	ND
	5/6/2008	ND	0.0631	0.0018	0.0615	0.0016	0.0012	ND	ND	**0.0116**	0.0018
	8/29/2008	ND	0.0623	0.0016	0.0611	0.0012	ND	ND	ND	**0.0095**	0.0017
	12/22/2008	ND	0.0722	0.0017	**0.0708**	0.0013	ND	ND	ND	**0.0069**	**0.0022**
	3/19/2009	ND	0.112	0.0024	**0.11**	0.0024	ND	ND	ND	**0.0065**	**0.0029**
	6/19/2009	ND	0.116	0.0021	**0.113**	0.0027	ND	ND	ND	**0.0061**	**0.0027**
	9/18/2009	ND	0.0321	ND	0.0314	ND	ND	ND	ND	0.00340	0.00104
	12/23/2009	0.0012	0.0976	0.0021	**0.0946**	0.0030	ND	ND	ND	0.0040	**0.0028**
	3/11/2010	ND / 0.00044 J	0.0307 J / 0.0824 J	0.00055 J / 0.0015	0.0301 J / **0.0809 J**	0.00057 J / 0.0015	ND / ND	ND	ND / ND	0.0023 / 0.0032	0.00096 J / **0.0024**
	6/28/2010	ND	0.0511	0.0011	0.0498	0.0013	ND	ND	ND	0.0036	0.0014
	9/10/2010	ND	0.0554 J	0.0012	0.0544 J	0.0010	ND	ND	ND	0.0037	0.0018
	12/16/2010	ND	0.0529	0.0012	0.0521 J	0.00083 J	ND	ND	ND	0.0027	0.0015
	4/4/2011	ND	0.0296	0.00059 J	0.0291	0.00051 J	0.00026 J	ND	ND	0.0026	ND
	4/4/2011 (pump)	ND / ND	0.0487 / 0.0590	0.0011 / 0.0014	0.0478 / 0.0580	0.00089 J / 0.0010	ND / ND	0.00035 J / 0.00035 J	ND / ND	0.0041 / **0.0050**	0.0012 / 0.0016
MW-3s	2/7/2008	ND	0.0053	ND	0.0053	ND	**0.0501**	ND	ND	**0.0165**	ND
	5/6/2008	ND	0.0074	ND	0.0074	ND	**0.0193**	ND	ND	**0.0156**	ND
	8/29/2008	ND	0.0058	ND	0.0058	ND	**0.0119**	ND	ND	**0.0168**	ND
	12/22/2008	ND	0.0028	ND	0.0028	ND	**0.011**	ND	ND	**0.014**	ND
	3/19/2009	ND	0.0015	ND	0.0015	ND	**0.0165**	ND	ND	**0.012**	ND
	6/19/2009	ND	0.001	ND	0.001	ND	**0.0072**	ND	ND	**0.0071**	ND
	9/18/2009	ND	ND	ND	ND	ND	0.00383	ND	ND	0.00478	ND
	12/23/2009	ND / ND	ND / ND	ND / ND	0.00028 J / 0.00029 J	ND / ND	**0.0170 / 0.0145**	ND	0.00033 J / ND	0.0049 / 0.0045	ND / ND
	3/11/2010	ND	ND	ND	ND	ND	**0.0158**	ND	0.00031 J	0.0044	ND
	6/28/2010	ND / ND	0.0013 / 0.0012	ND / ND	0.0013 / 0.0012	ND / ND	**0.0111 / 0.0102**	ND	ND / ND	0.0056 / 0.0053	ND / ND
	9/10/2010	ND / ND	0.0016 J / 0.0014 J	ND / ND	0.0016 / 0.0014	ND / ND	**0.0319 / 0.0248**	ND	0.00065 J / 0.00055 J	**0.0068 / 0.0059**	ND / ND
	12/16/2010	ND / ND	ND / ND	ND / ND	0.00054 J / 0.00055 J	ND / ND	**0.0146 / 0.0135**	ND	0.00031 J 0.00030 J	0.0041 / 0.0040	ND / ND
	4/4/2011	ND	0.0024	ND	0.0024	ND	**0.0149**	ND	0.00030 J	**0.0063**	ND
	4/4/2011 (pump)	ND	0.0079	ND	0.0079	ND	**0.0072**	0.00024 J	ND	**0.0059**	ND
PZ-3	2/7/2008	ND	0.0079	ND	0.0076	ND	**0.117**	ND	ND	**0.0081**	ND
	5/6/2008	ND	0.0036	ND	0.0036	ND	**0.0734**	ND	ND	0.0044	ND
	8/29/2008	ND	0.0024	ND	0.0024	ND	**0.0209**	ND	ND	0.0019	ND
	12/22/2008	ND	ND	ND	ND	ND	**0.0252**	ND	ND	0.0015	ND
	3/19/2009	ND	0.0012	ND	0.0012	ND	**0.0127**	ND	ND	0.0011	ND
	6/19/2009	ND	ND	ND	ND	ND	0.0026	ND	ND	ND	ND
	9/18/2009	ND	ND	ND	ND	ND	**0.00702**	ND	ND	ND	ND
	12/23/2009	ND	0.00090 J	ND	0.00090 J	ND	0.0016	ND	ND	0.00060 J	ND
	3/11/2010	ND	ND	ND	0.00064 J	ND	**0.0232**	ND	ND	0.0023	ND
	6/28/2010	ND	ND	ND	0.00065 J	ND	**0.0122**	ND	ND	0.0013	ND
	9/10/2010	ND	0.0023	ND	0.0023	ND	**0.0487**	ND	ND	0.0048	ND
	12/16/2010	ND	ND	ND	0.00048 J	ND	**0.0220**	ND	ND	0.0015	ND
MW-4s	4/4/2011 (pump)	ND	0.0044	ND	0.0044	ND	0.00065 J	0.00020 J	ND	0.0019	ND
MW-4d	4/4/2011	ND	0.0204	0.0051 J	0.0201	ND	0.00069 J	ND	ND	0.002	0.00044 J
MW-5s	4/4/2011	ND	0.0233	0.00086 J	0.0227	0.00062 J	**0.0279**	ND	ND	**0.0317**	0.00064 J
	4/4/2011 (pump)	ND	0.0195	0.00057 J	0.0189	0.00059 J	**0.0361**	0.00022 J	ND	**0.0225**	0.00042 J
MW-5d	4/4/2011	ND	0.0357 / 0.0395	0.0013 / 0.0014	0.0351 / 0.0389	0.00059 J / 0.00062 J	0.00066 J / 0.00059 J	0.00026 J / 0.00025 J	ND	**0.0126 / 0.0133**	0.001 / 0.0011
	4/4/2011 (pump)	ND	0.0838	0.0025	**0.0824**	0.0013	0.00037 J	0.00055 J	ND	**0.0173**	**0.0023**
MW-6s	4/4/2011	ND	0.0235	0.00028 J	0.0232	ND	**0.0225**	ND	ND	**0.0115**	**0.0029**
	4/4/2011 (pump)	ND	0.0295	0.00042 J	0.0291	0.00040 J	**0.0266**	0.00031 J	ND	**0.0134**	**0.0027**
MW-6d	4/4/2011	ND	0.0490 J	0.0012 J	0.0483 J	0.00077 J	0.00072 J	0.00024 J	ND	**0.0108 J**	0.0015
	4/4/2011 (pump)	ND	0.0666	0.0017	0.0655	0.0011	0.00084 J	0.00026 J	ND	**0.014**	0.0019

Results mg/L.
J - estimated concentration.

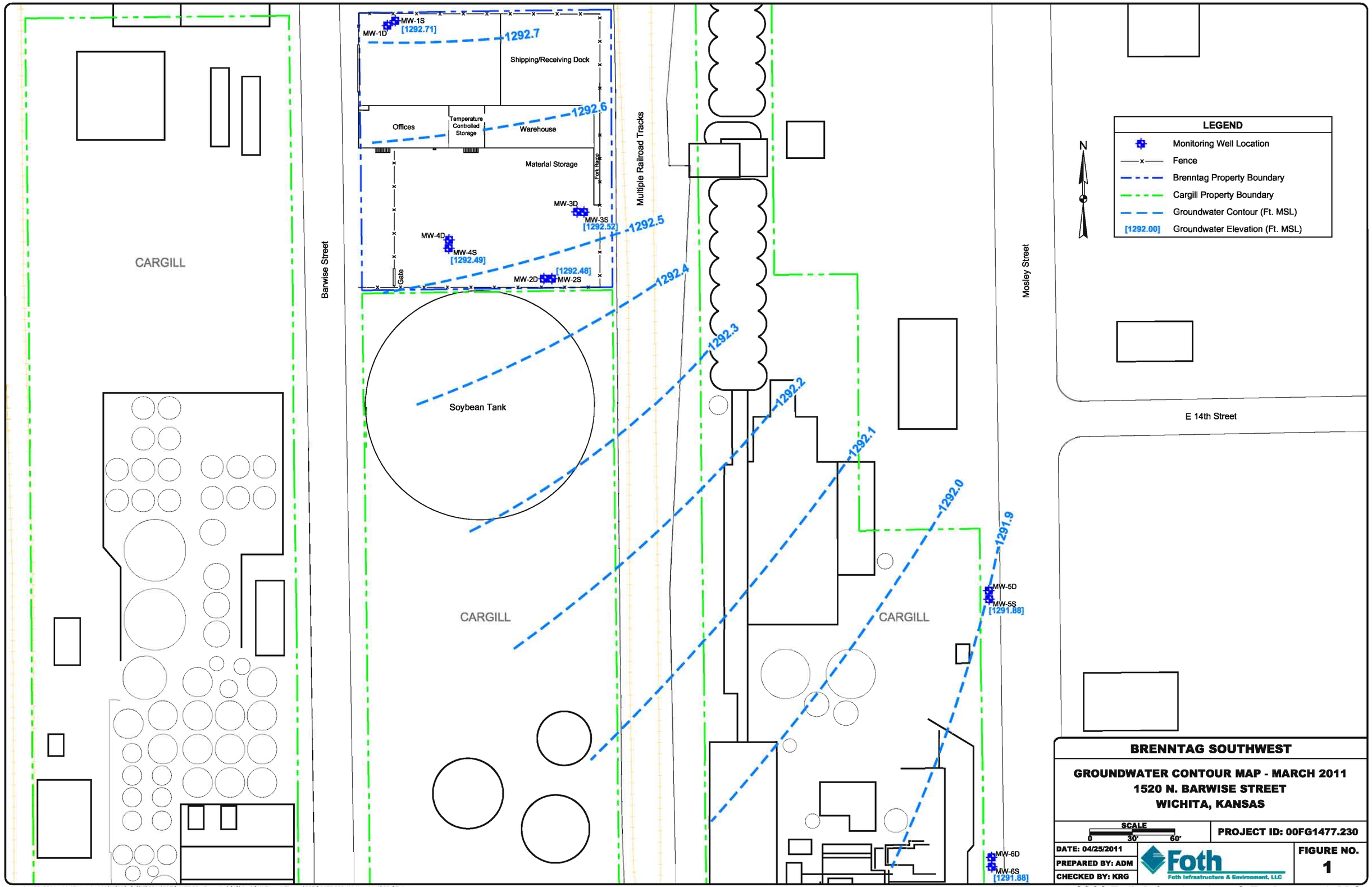
Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 4
Additional Groundwater Analyses
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS

Analysis	Analytical Method	MW-1d	MW-1s	MW-2d	MW-2s	MW-3s	MW-3d	MW-5s	MW-5d	MW-6s	MW-6d
		8/29/2008	8/29/2008	8/29/2008	8/29/2008	4/4/2011	4/4/2011	4/4/2011	4/4/2011	4/4/2011	4/4/2011
Temperature (°C)	Multi-Parameter Probe	18.3	18.9	18.48	19.6	16.61	17.79	17.19	18.18	17.64	18.23
Specific Conductance	Multi-Parameter Probe	1.10	0.89	1.08	0.97	0.863	1.114	0.941	1.094	1.025	1.079
pH	Multi-Parameter Probe	6.93	6.95	6.86	6.77	6.99	6.97	6.96	6.89	6.84	6.95
ORP (REDOX)	Multi-Parameter Probe	62.2	9.6	65.9	109.4	65.5	15.6	57.7	43.1	-87.4	-10.5
DO	Multi-Parameter Probe	0.18	0.17	0.18	0.77	0.78	0.47	0.42	0.44	0.43	0.31
Ferrous Iron	Field Test Kit	0.0	0.0	0.0	0.0	0.09	0.09 / 0.12	0.12	0.13	2.9	0.2
Total Iron	EPA 6010	1.520	0.849	0.274	2.31 / 0.669	4.56	0.492 / 0.595	6.88	3.42	39.5	2.33
Total Manganese	EPA 6010	0.0554	0.975	0.0854	2.94 / 1.67	0.174	0.0772 / 0.0841	0.619	0.161	1.12	0.213
Total Organic Carbon	SW 9060	3.2	1.6	2.8	2.0 / 1.8	1.2	2.5 / 2.5	2	2.3	3.2	2
Methane	RSK175	0.0152	ND	0.0182	ND / 0.0184	0.00069	0.0132 / 0.0117	0.00087	0.00631	0.375	0.0106
Ethane	RSK175	ND	ND	ND	ND / ND	ND	ND / ND	ND	ND	ND	ND
Ethene	RSK175	ND	ND	ND	ND / ND	ND	ND / ND	ND	ND	ND	0.0017
Sulfide	SM 4500-S2	< 0.50	< 0.50	< 0.50	< 0.50 / 0.82	<1.0[B]	<1.0[B] / <1.0[B]	<1.0[B]	<1.0[B]	<1.0[B]	<1.0[B]
Sulfate	IC E300.0	190	116	196	132 / 0.82	156	229 / 225	176	186	155	212
Nitrate	IC E300.0	< 1.0 [H3]	6.8 [H3]	< 1.0 [H3]	13.8 [H3] / 11.5 [H3]	6.5	0.57 / 0.45	8.3	0.33	0.84	<0.20
Nitrite	IC E300.0	< 1.0 [H3]	< 1.0 [H3]	< 1.0 [H3]	< 1.0 [H3] / <1.0 [H3]	<0.10	<0.20 / <0.20	<0.20	<0.20	<0.20	<0.20
Bromide	IC E300.0	< 1.0	< 1.0	< 1.0	< 1.0 / < 1.0	<0.50	< 1.0 / < 1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity	SM 2320B	228	270	220	252 / 246	270	283 / 273	299	341	342	311
Hardness, Total (CaCO3)	SM 2340B	261	366	325	418 / 386	400	338 / 351	431	407	410	407

All concentration results in mg/L.
Cells containing multiple values represent duplicate results.
ND - not detected at or above adjusted reporting limit.
[H3] - samples were received outside EPA method holding time.
[B] - exceeded holding time

Figures



Apr 25, 2011 - 11:17am adm1 M:\KCMO-GIS\IE\2011\00FG1477.00 - Brenntag\GIS\dwg\GW Report Figures\00FG1477.230_WatLev11 KS83-SF.dwg

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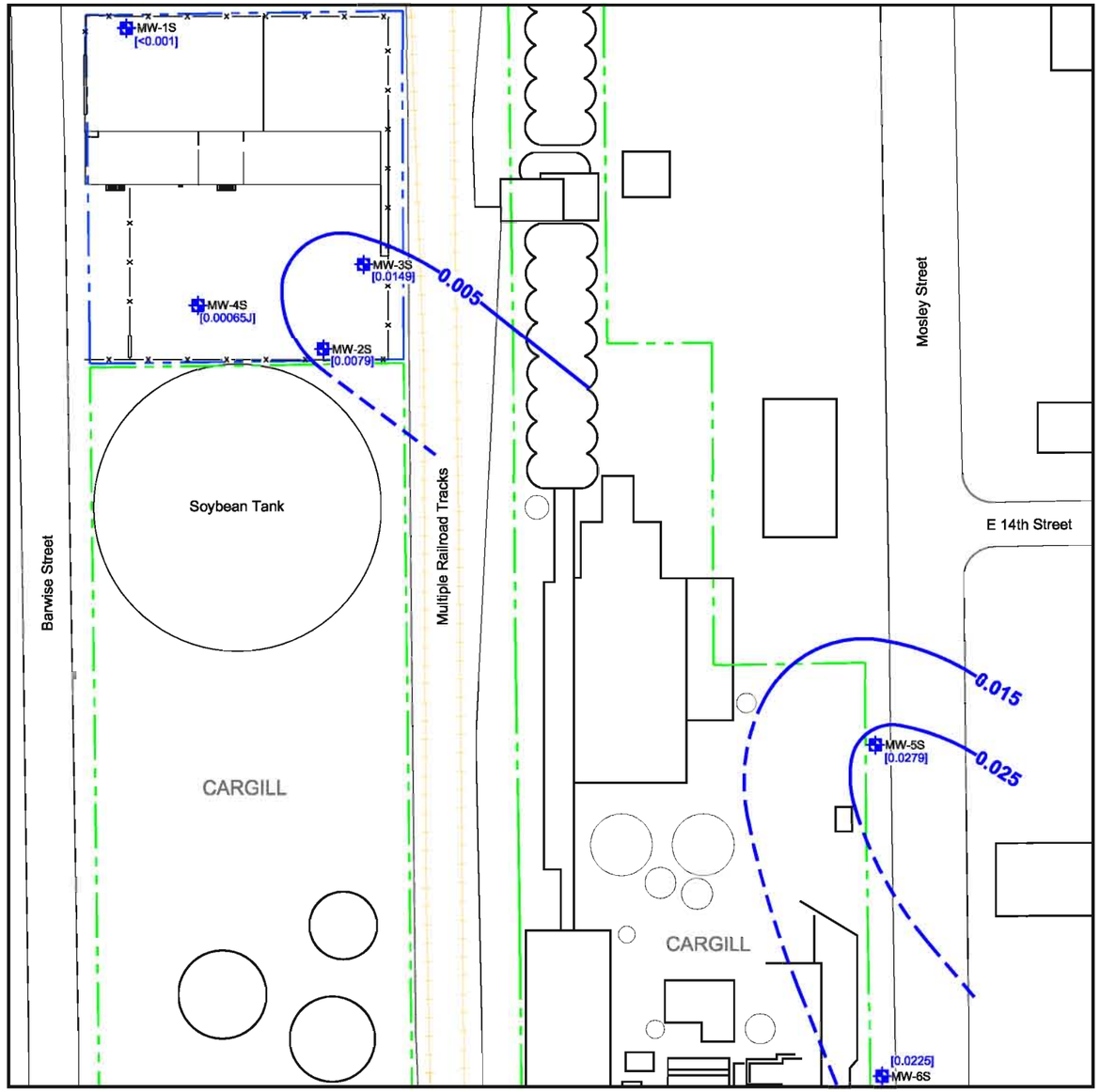
PCE ISOCONCENTRATION CONTOURS



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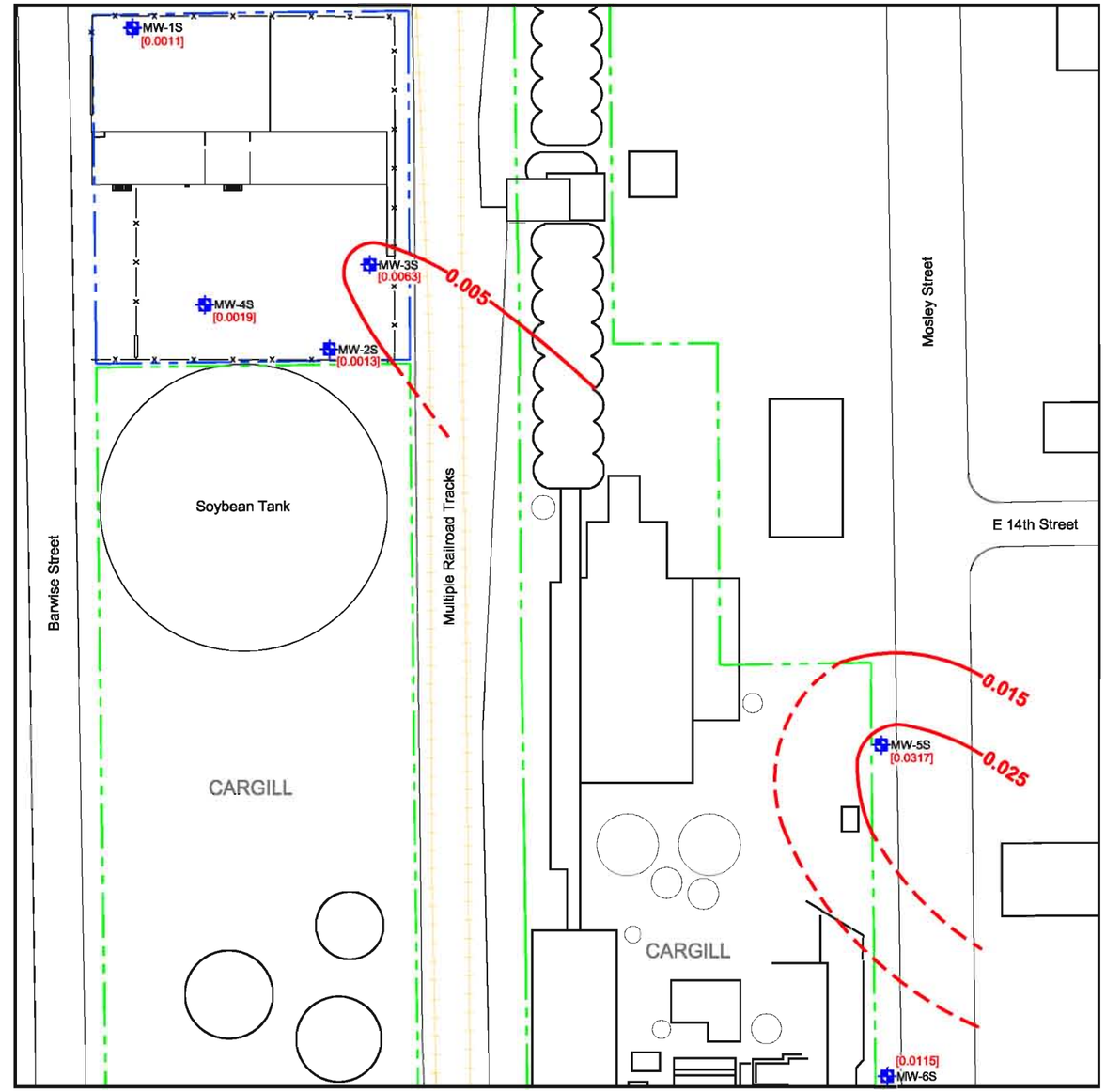

LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 PCE Contour (mg/L)
- 0.01 TCE Contour (mg/L)

NOTE: J = Estimated Value

N

BRENNTAG SOUTHWEST

ISOCONCENTRATION CONTOUR MAP
SHALLOW WELLS - MARCH 2011
1520 N. BARWISE STREET
WICHITA, KANSAS

SCALE 0 40' 80'

PROJECT ID: 00FG1477.230

DATE: 04/29/2011
PREPARED BY: ADM
CHECKED BY: KRG

Foth Infrastructure & Environment, LLC

FIGURE NO. 2

Apr 29, 2011 - 10:12am adm1 M:\KCMO-GIS\IE\2011\00FG1477.00 - Brenntag\GIS\dwg\GW Report Figures\00FG1477.230_Analytical11 KS83-SF.dwg

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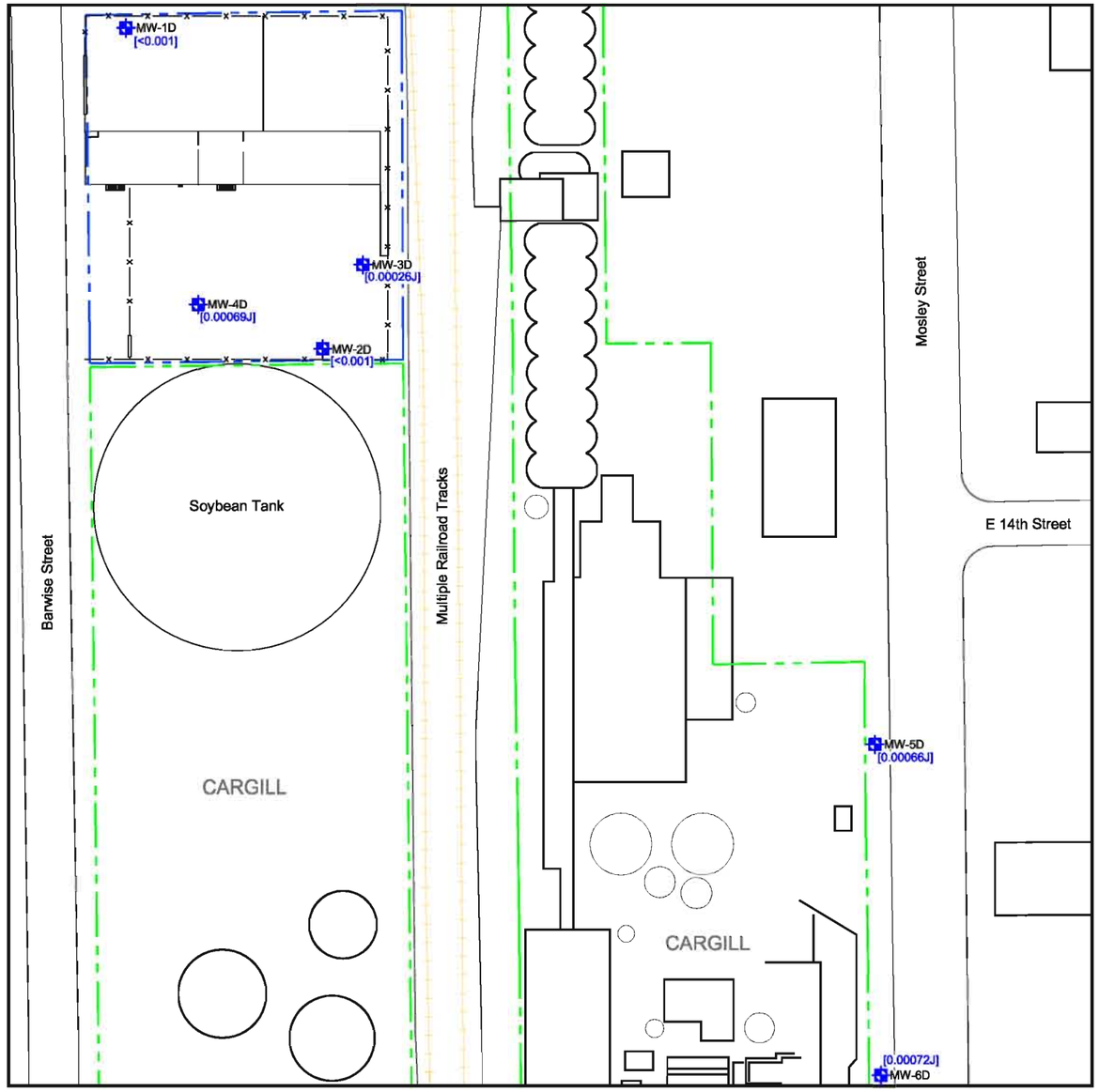
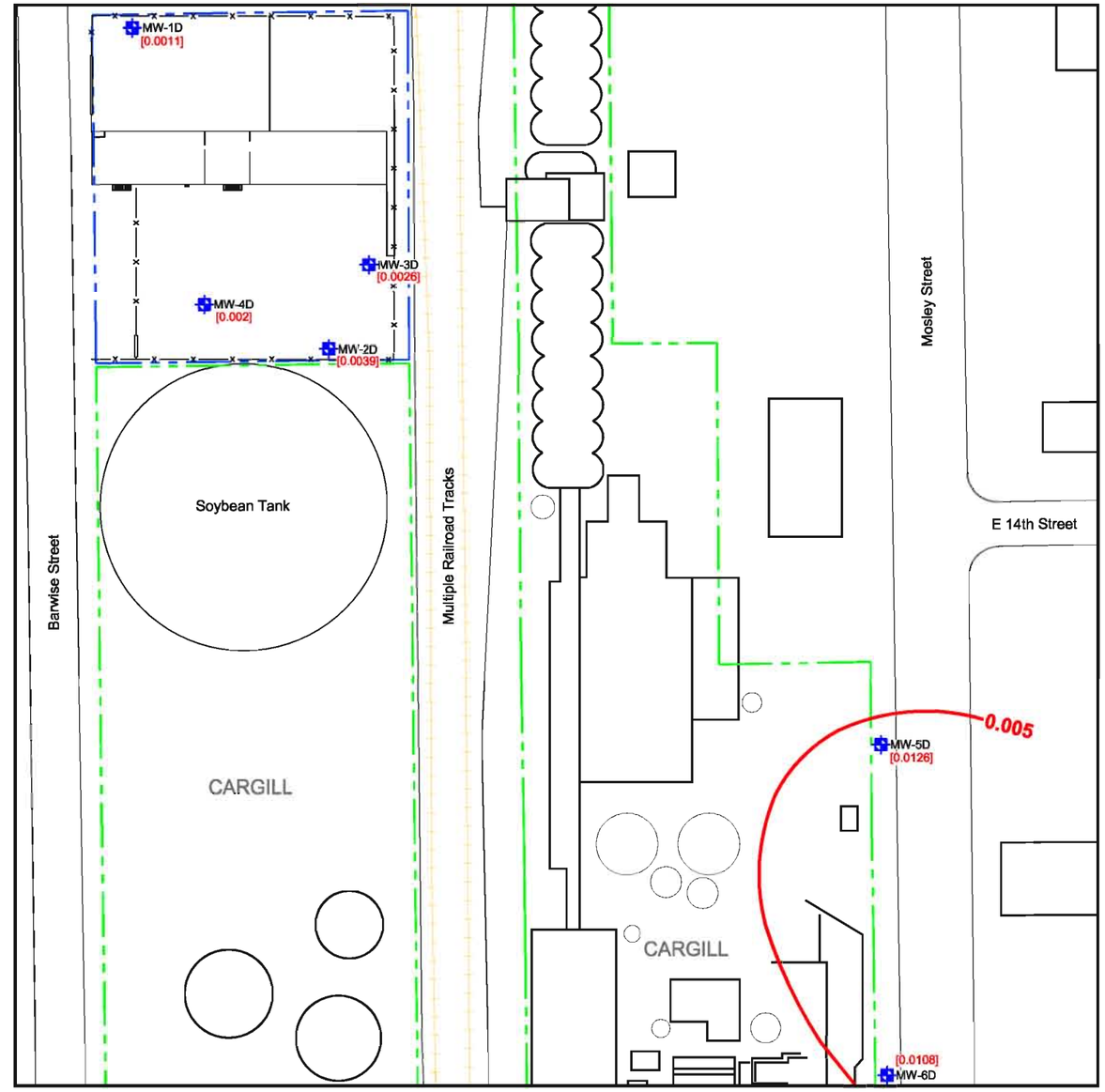
PCE ISOCONCENTRATION CONTOURS



TCE ISOCONCENTRATION CONTOURS



LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 PCE Contour (mg/L)
- 0.01 TCE Contour (mg/L)

NOTE: J = Estimated Value

N

BRENNTAG SOUTHWEST

ISOCONCENTRATION CONTOUR MAP
DEEP WELLS - MARCH 2011
1520 N. BARWISE STREET
WICHITA, KANSAS

SCALE 0 40' 80'

PROJECT ID: 00FG1477.230

DATE: 04/29/2011
PREPARED BY: ADM
CHECKED BY: KRG

Foth
Foth Infrastructure & Environment, LLC

FIGURE NO. 3

Apr 29, 2011 - 10:35am adm1 M:\KCMO-GIS\IE\2011\00FG1477.00 - Brenntag\GIS\dwg\GW Report Figures\00FG1477.230_Analytical11 KS83-SF.dwg

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Attachment 1
MIP / EC/ HPT Logs

BGS
BELOW GROUND SURFACE, INC.

1126 E.1823 Rd. Lawrence, KS 66046

Office: 785-542-1200
Fax: 785-542-1201
e-mail: midwestbgs@sbcglobal.net
www.belowgroundsurface.com

March 30, 2011

Mr. Kris Gamble
Foth Infrastructure & Environment, LLC.
605 N. Boonville Avenue
Springfield, MO 65806

RE: MIP/HPT Report for the Brenntag Site; Wichita, KS

Dear Mr. Gamble:

Below Ground Surface, Inc. (BGS) is pleased to submit the results of the Membrane Interface Probe (MIP) and Hydraulic Profiling Tool (HPT) logging services performed at the above referenced site. Included in this report are the MIP and HPT logs in hard copy format and in electronic format (CD enclosed), a summary of the procedures used, and VOC detections and EC logs presented in a cross-section format.

MIP logging was performed at three (3) locations. MIP points were located by the Foth field personnel. At each location logging began from the surface and ended when encountering weathered shale.

VOCs were detected by the MIP at shallow depths ranging from 6 to 10 ft in all locations. VOCs were also detected in MIP-03 at the 14-16 foot interval. Based on the response tests, estimated concentrations are in a 200 to 800 ppb range.

Soil electrical conductivity (EC) readings were logged at each location. EC readings indicate the presence of silty clays at the top section followed by sands in the middle section and ending in weathered shale at the bottom.

The MIP system is a field screening tool and any concentrations derived from using these results or response tests are estimated concentrations. This data should not be used to state that all potential VOCs are identified spatially.

BGS appreciates this opportunity to provide our environmental services. Should you have any questions or require additional information, please call us at (785) 542-1200.

Sincerely,
Below Ground Surface, Inc.

Mike Ocsody, PG

Attachments

MIP LOGGING SUMMARY

Foth
Brenntag Site
Wichita, KS

MIP Logs

The information provided by the MIP logs includes the volatile organic compounds (VOC) detections from two (2) detectors measuring in microvolts (uV); the electrical conductivity values of the soils encountered in milliSiemens per meter (mS/M); and the depth that each of these parameters were measured. This information is displayed graphically on one page for easy viewing.

Two (2) detectors were used for this project. The detectors are laboratory-grade gas-phase detectors. Detector 1 represents a photo-ionization detector (PID), which is used for the detection of aromatic hydrocarbons and chlorinated compounds. Detector 2 represents a flame-ionization detector (FID), which is used for the detection of straight-chain hydrocarbons. The PID has the lowest detection level for our system with a detection level around 200 parts per billion

Probing Rate

The probing rate is the rate at which the MIP probe is advanced into the ground and then allowed to set at a pre-determined depth for a known amount of time. This allows time for any VOCs present to be diffused into the system. This system continuously samples the gas stream coming from the ground, which provides a continuous log of the hole. The probe rate should be kept consistent throughout the site, which helps in correlating logs.

For this project the MIP tip was advanced at one (1) ft per 60 seconds until reaching probe refusal.

Quality Control Measures

Response tests are a quality control measure used to validate each log by proving that the integrity of the system is intact. For this project a neat solution of trichloroethene (TCE) was used to make a 50 mg/ml working standard. Before and after each log a response test was performed on the system to ensure the system was working correctly. This included injecting 0.1 ml of the working standard into 500 ml of water, which creates a concentration of approximately 1 ppm TCE solution. The heated probe is placed in the solution for 45 seconds then removed. While viewing the display screen the detector baselines are recorded as well as the highest detection numbers from both detectors. If a response does not occur, then the system is not working properly and must be checked and retested. During the entire project, the response test did not fail and confirmed that the system was working properly. Three response tests have been included with this report. .

In addition to the response tests, the response time is recorded as well. The response time, which is measured in seconds, is the time it takes for a VOC compound to enter into the MIP membrane, travel through the gas line, and be detected. There were no significant changes in response time during this project. A significant change could indicate a gas leak or blockage in the system.

Problems Encountered

No problems occurred during this project

MIP/HPT LOGS

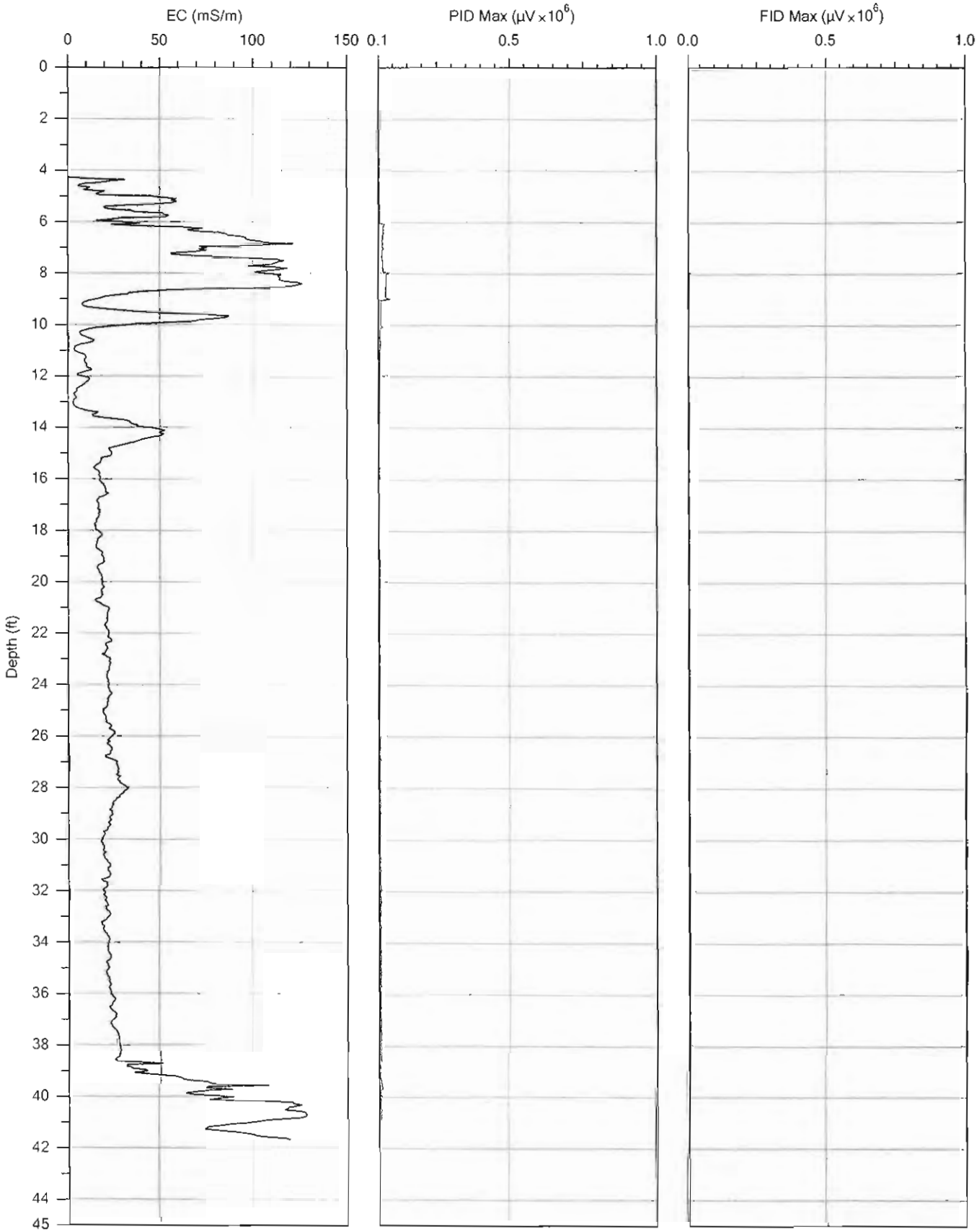
INDIVIDUAL LOGS

EC CROSS-SECTIONS

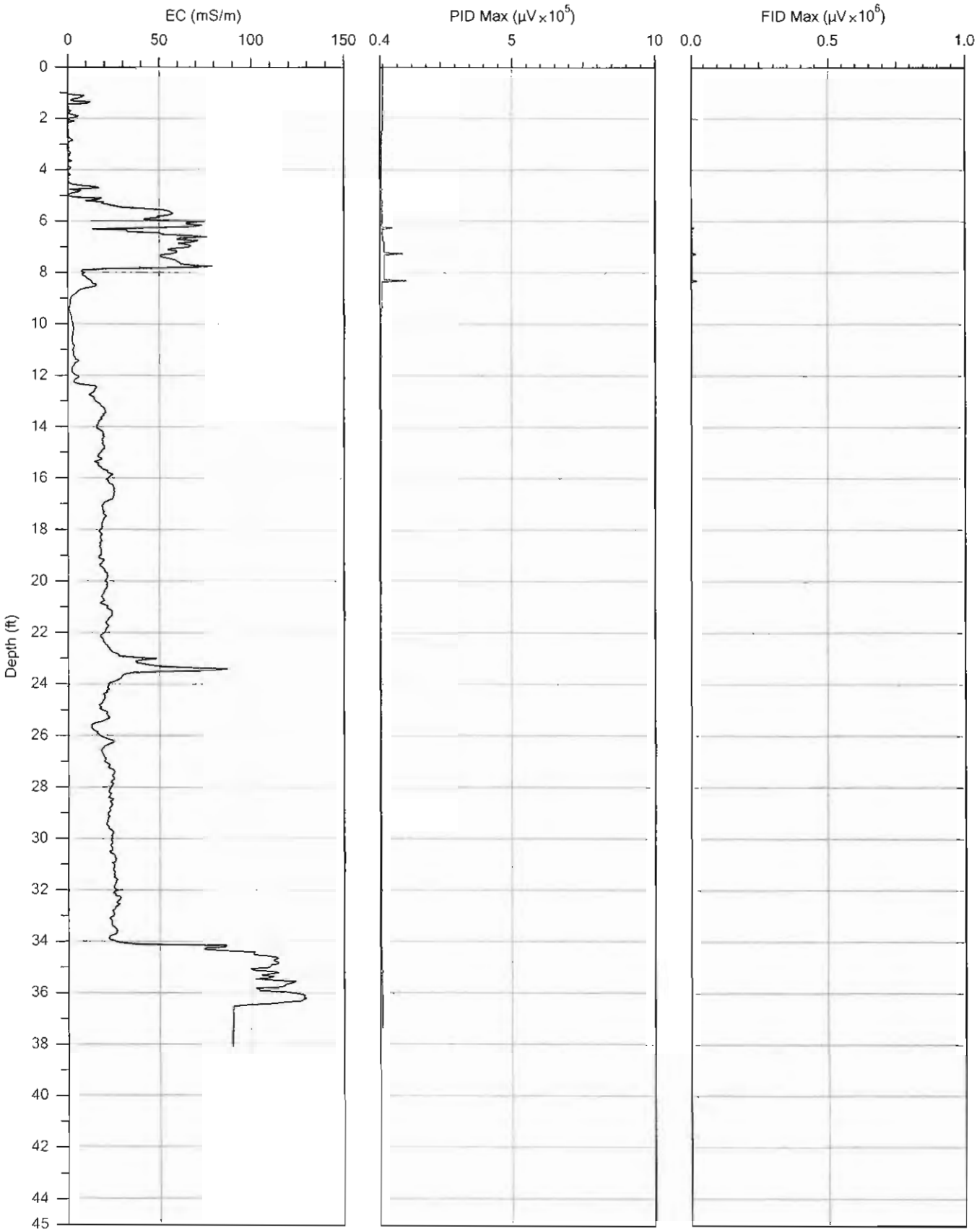
PID CROSS-SECTIONS

RESPONSE TESTS

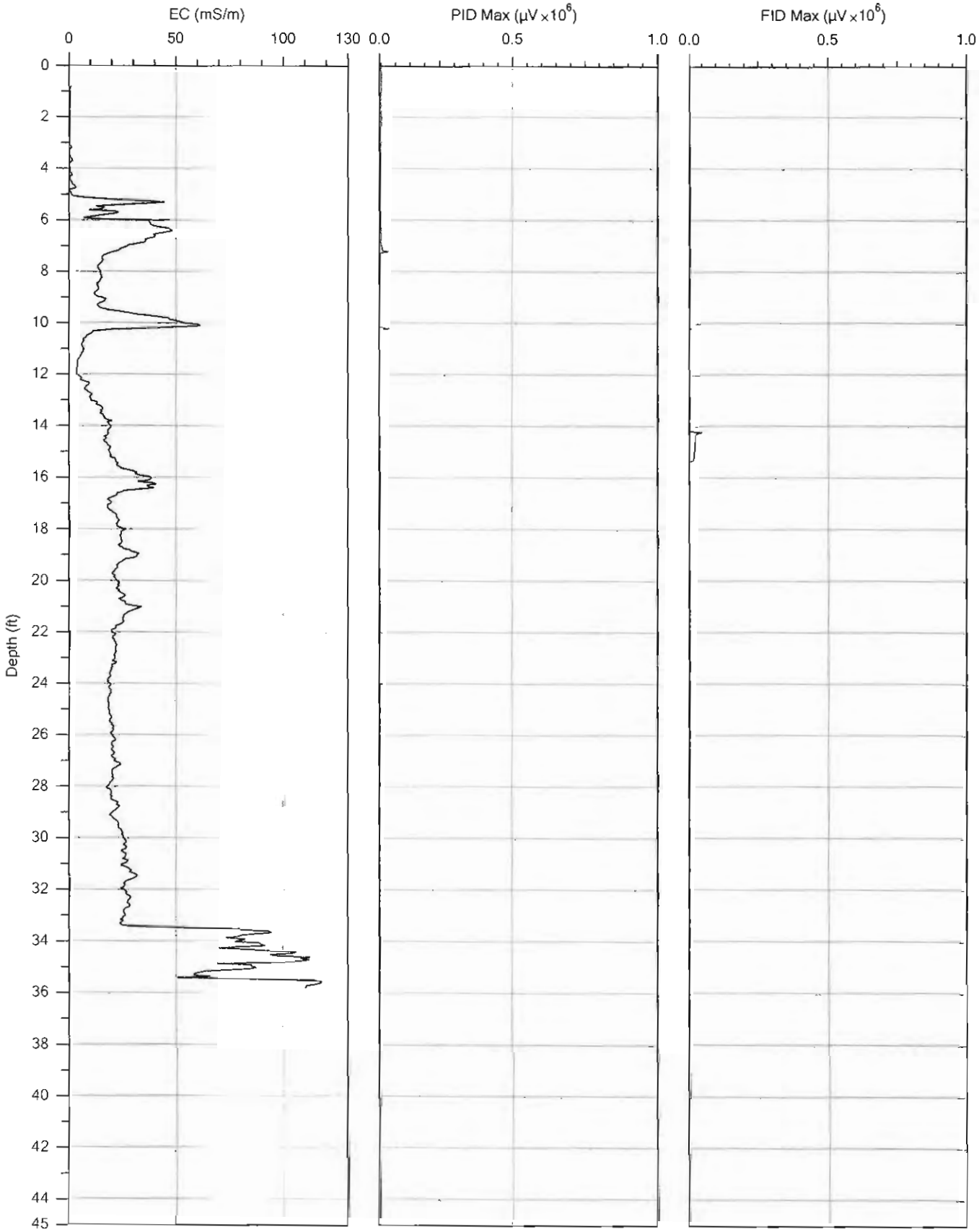
Below Ground Surface, Inc.



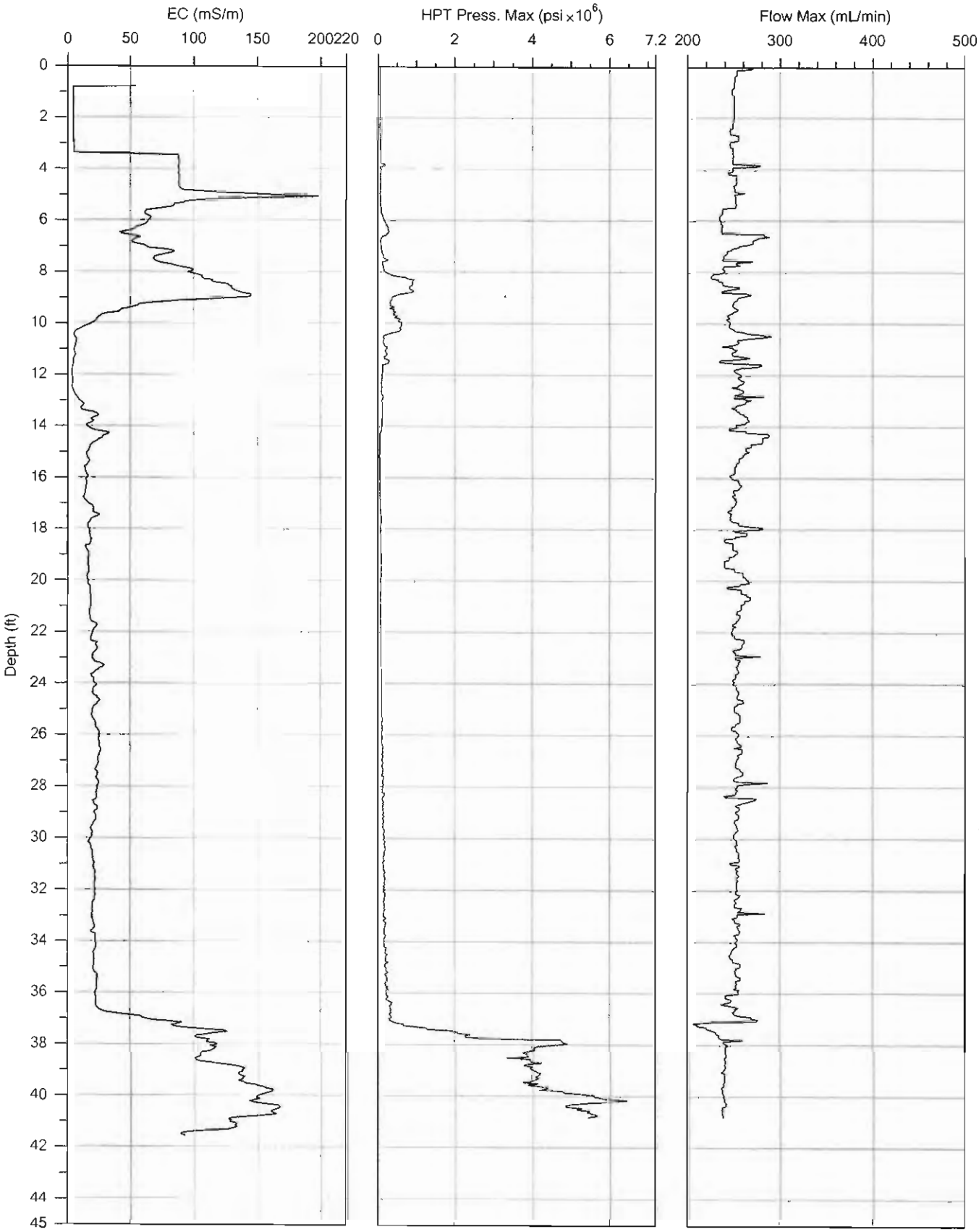
BGS BELOW GROUND SURFACE, INC.			File: MIP01.DAT
Company: BGS	Operator: M.Ocsody		Date: 3/21/2011
Project ID: Brenntag-Wichita	Client: Foth		Location:



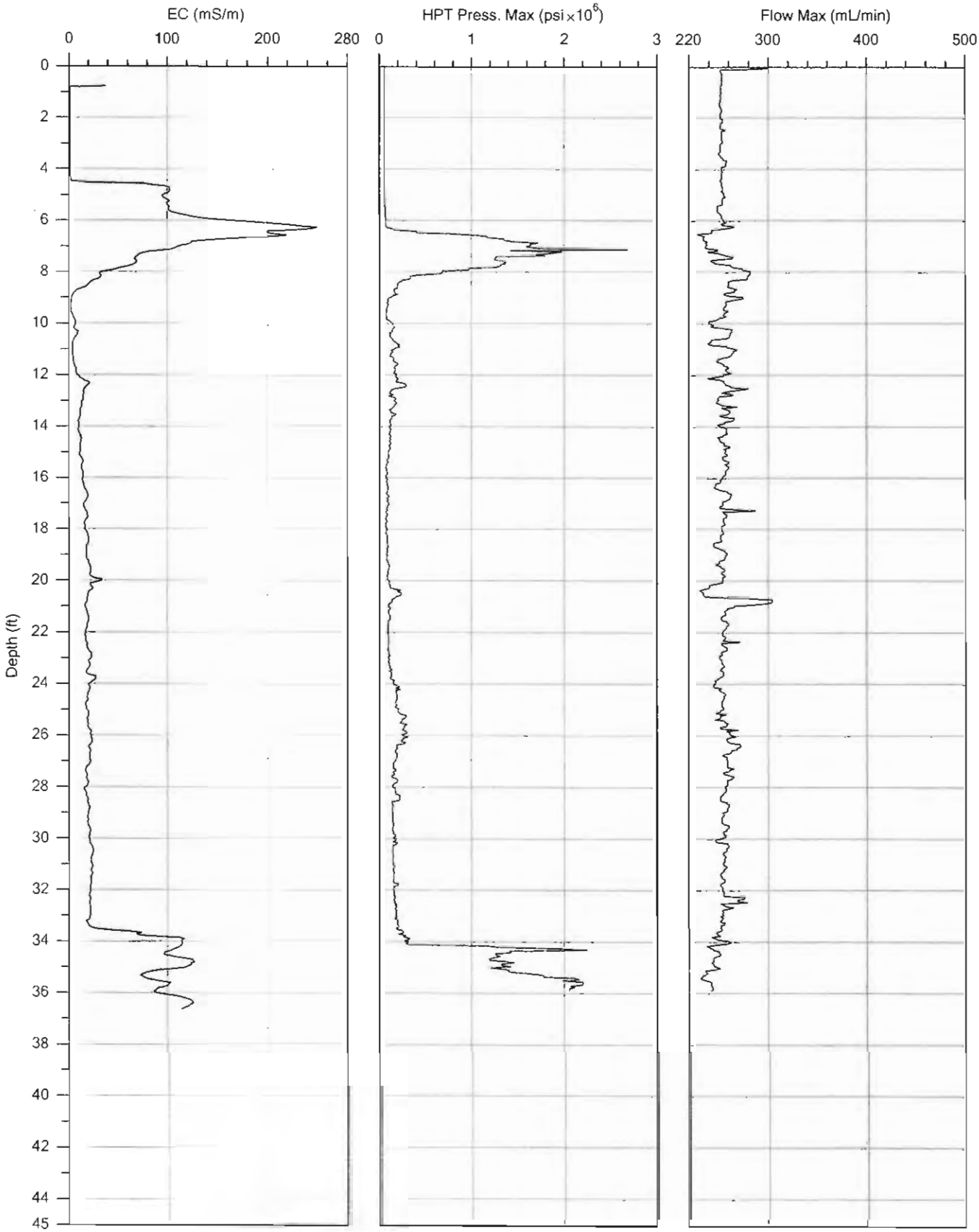
			File: MIP02.DAT
Company: BGS		Operator: M.Ocsody	Date: 3/22/2011
Project ID: Brenntag-Wichita		Client: Foth	Location:



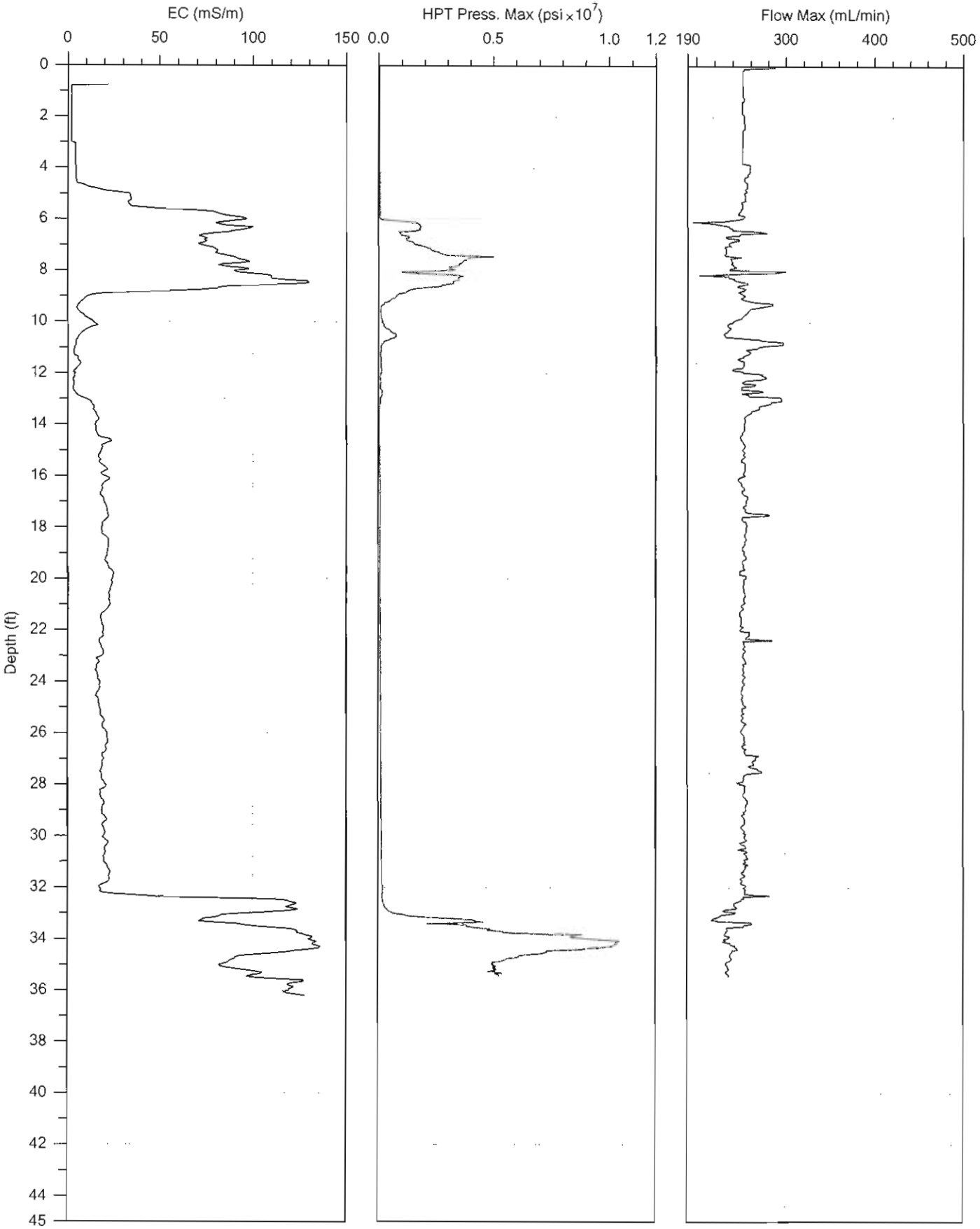
Company: BGS	Operator: M.Ocsody	File: MIP03.DAT	
Project ID: Brenntag-Wichita	Client: Foth	Date: 3/22/2011	
		Location:	



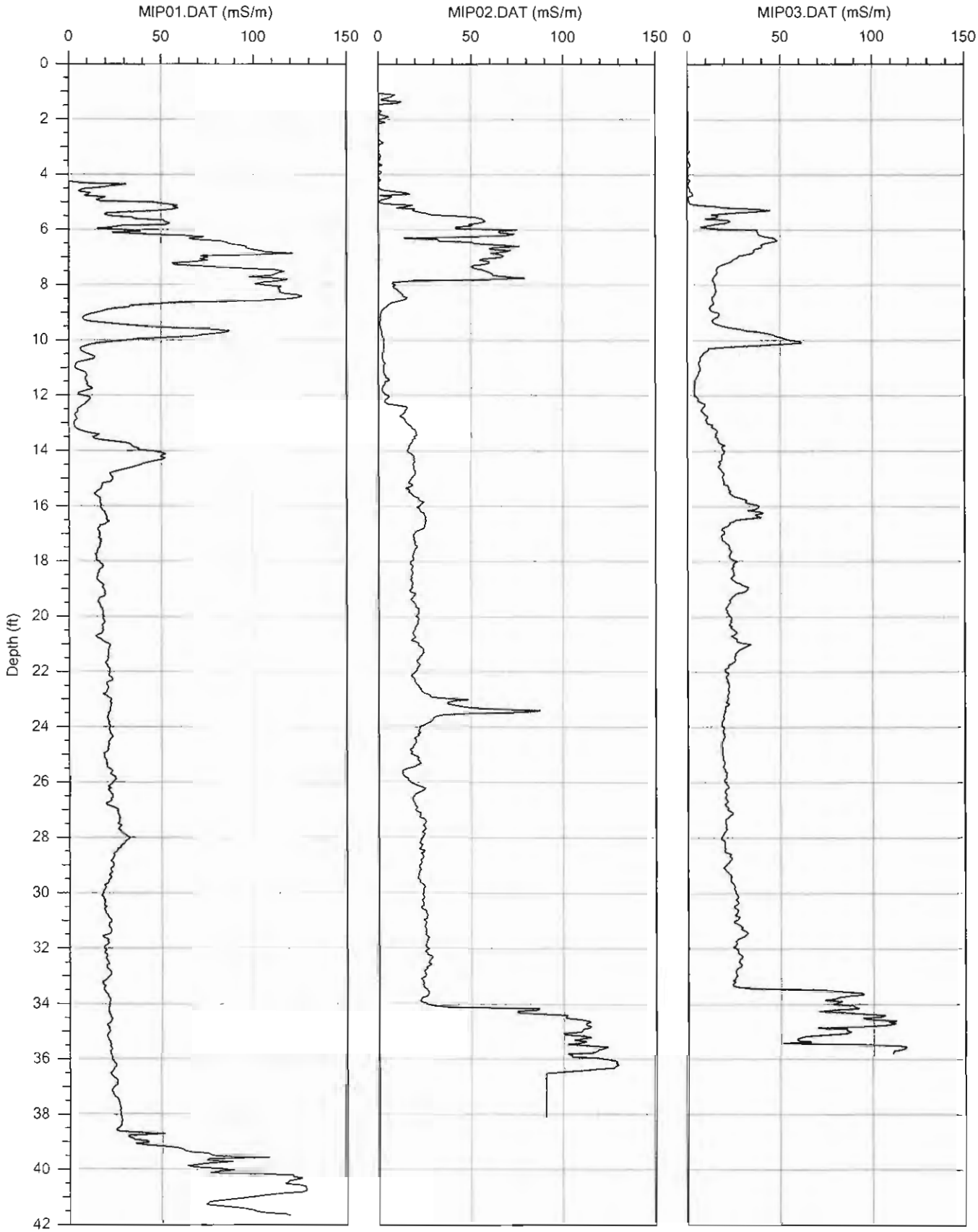
BGS			File: HPT01.DAT
	Company: BGS	Operator: M.Ocsody	Date: 3/22/2011
	Project ID: Brenntag-Wichita	Client: Foth	Location:



Company: BGS	Operator: M.Ocsody	File: HPT02.DAT	
Project ID: Brenntag-Wichita	Client: Foth	Date: 3/22/2011	
		Location:	

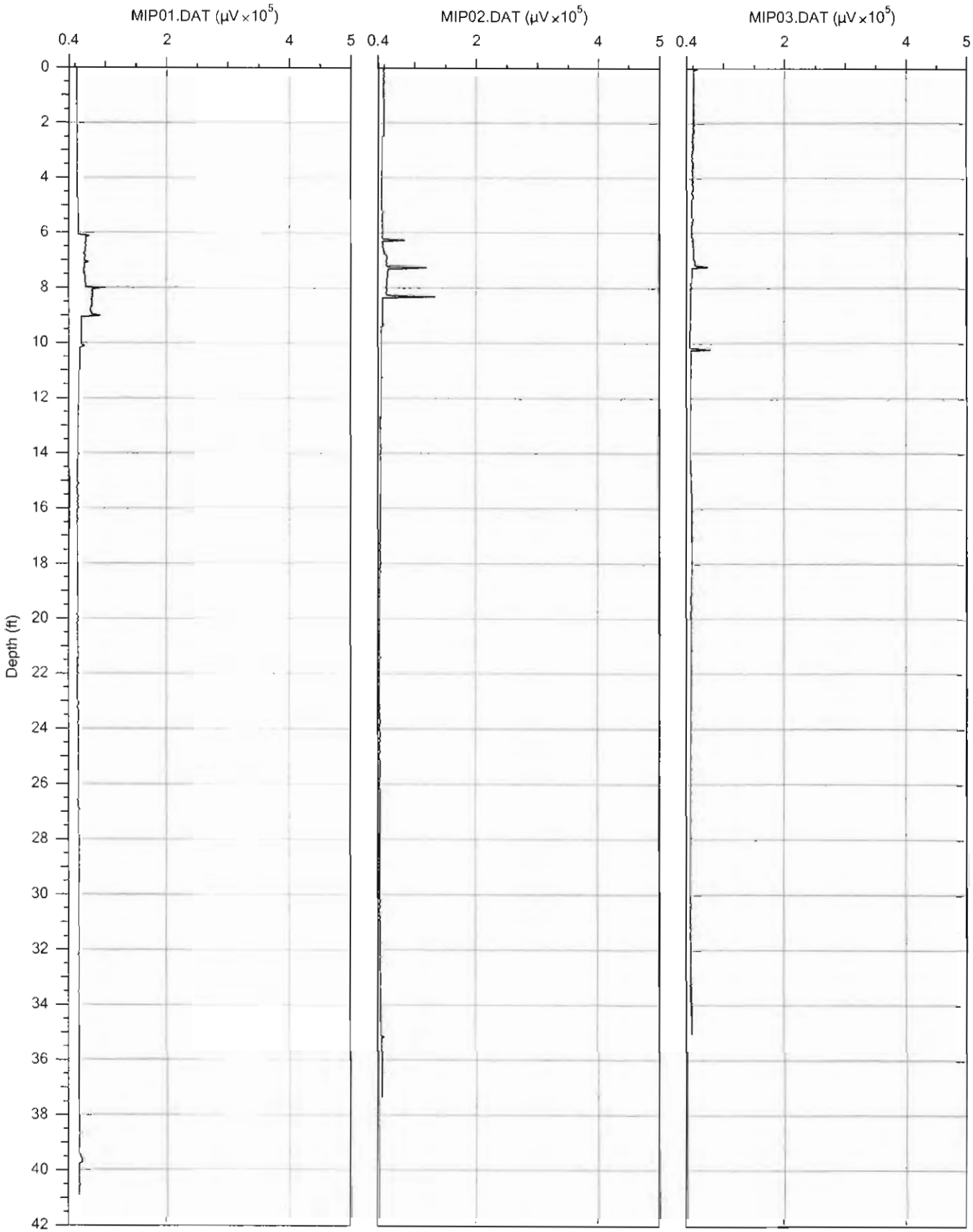


Company: BGS	Operator: M.Ocsody	File: HPT03.DAT
Project ID: Brenntag-Wichita	Client: Foth	Date: 3/22/2011
		Location:



EC Cross Section

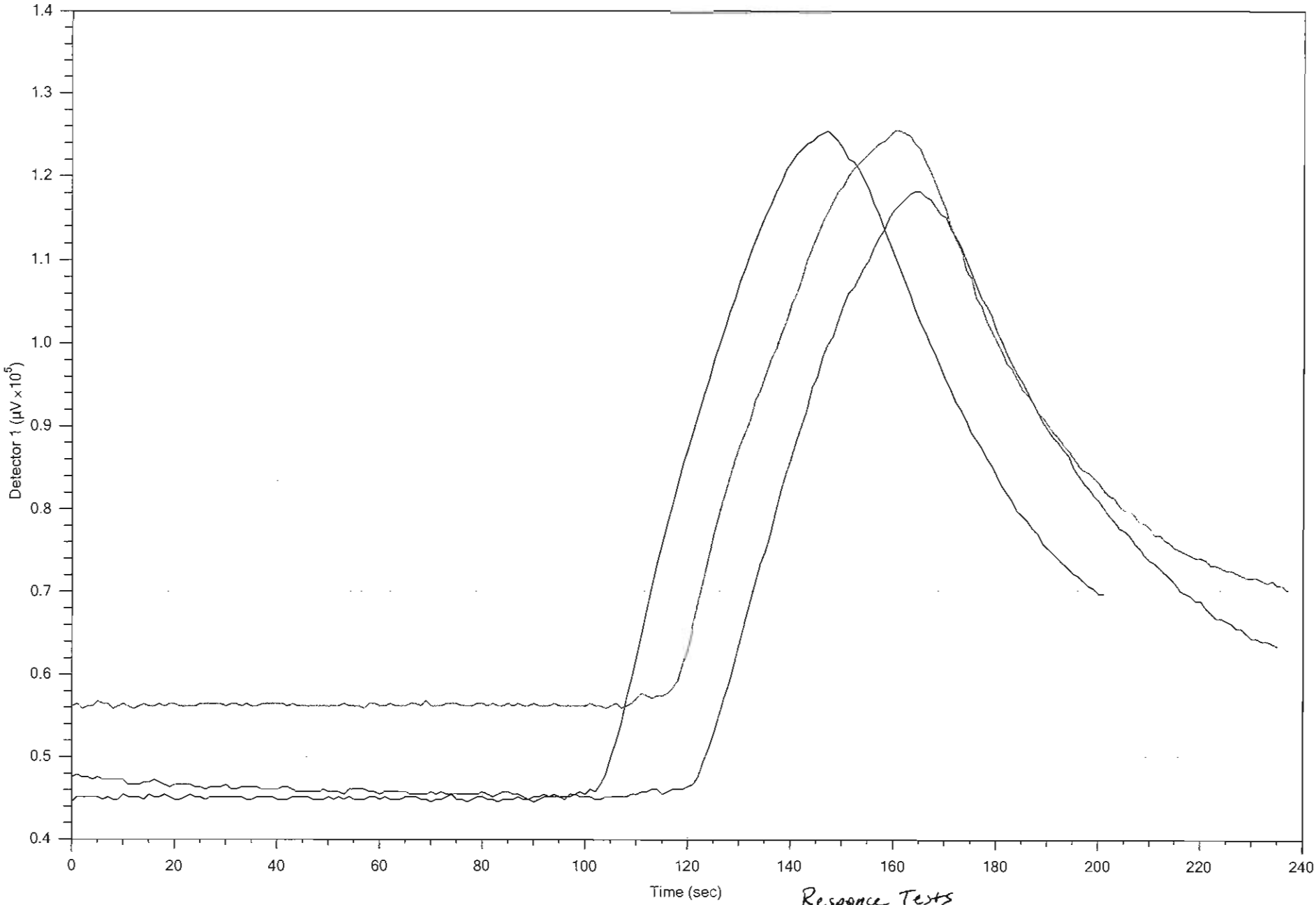
Company: BGS	Operator: M.Ocsody	MIP01.DAT	3/21/2011
Project ID: Brenntag-Wichita	Client: Foth	MIP02.DAT	3/22/2011
		MIP03.DAT	3/22/2011



BGS
BELOW GROUND SURVEY, INC.

PID Max Cross-Section

Company: BGS	Operator: M.Ocsody	MIP01.DAT	3/21/2011
Project ID: Brenntag-Wichita	Client: Foth	MIP02.DAT	3/22/2011
		MIP03.DAT	3/22/2011



Response Tests

DETECTOR 1 1 PPM-TCE

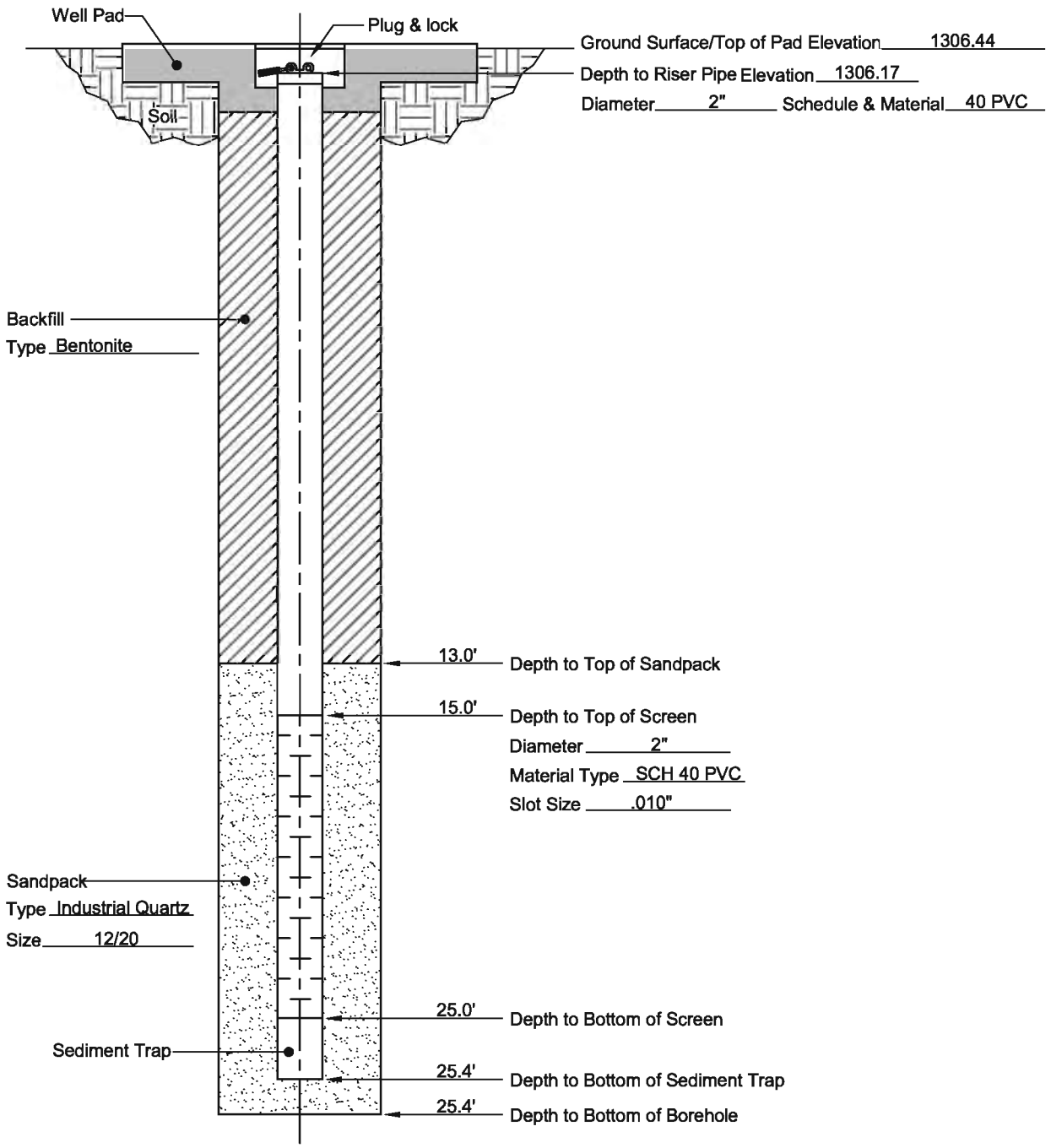
Company:	BGS	Operator:	M.Ocsody
Project ID:	Brenntag-Wichita	Client:	Foth

Filename	Date
T3.TIM	3/22/2011
T1.TIM	3/21/2011
T2.TIM	3/22/2011

Attachment 2
Monitoring Well Construction Logs
KDHE Monitoring Well Waivers
Water Well Record Forms

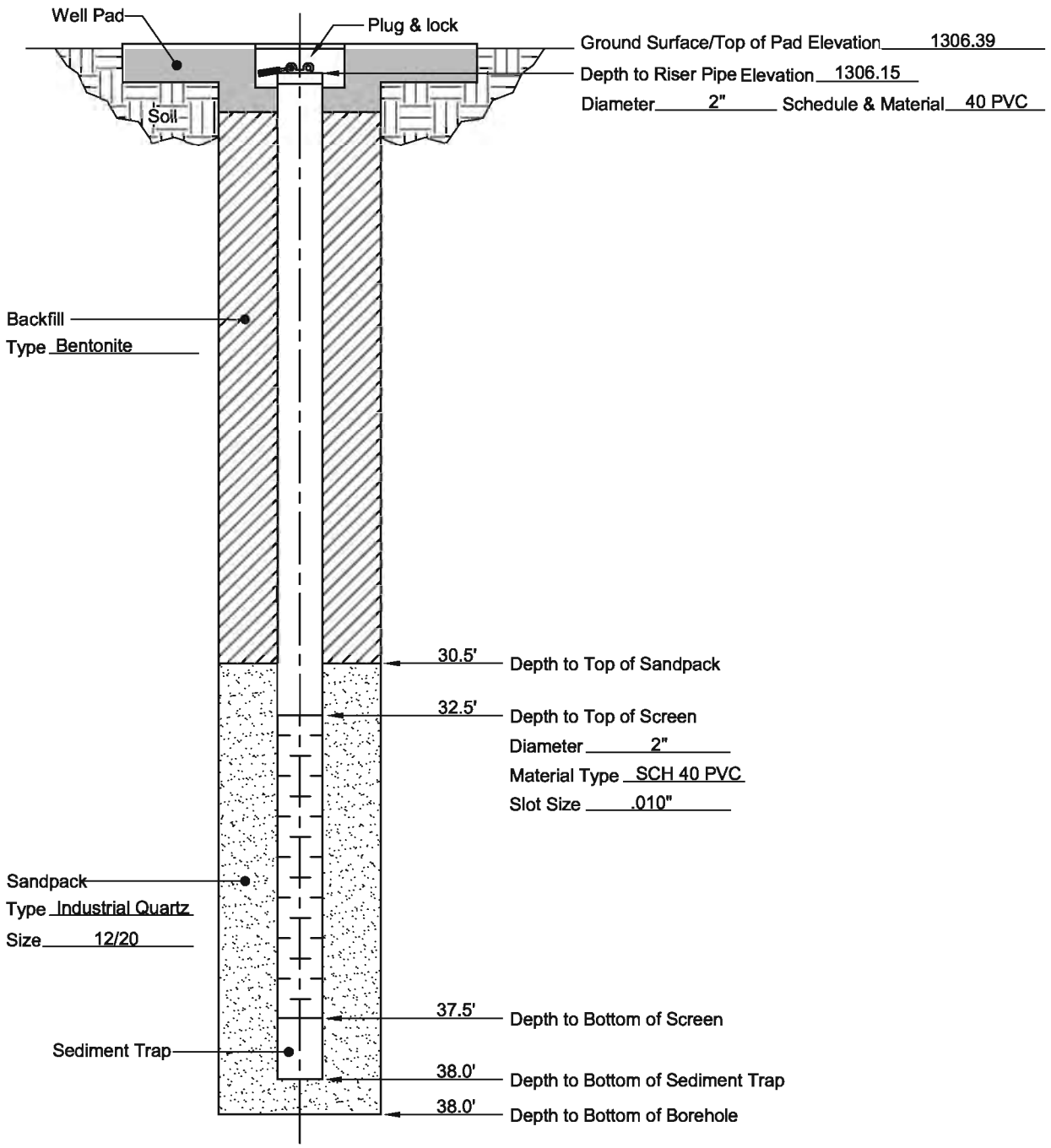
WELL COMPLETION LOG

Foth Project Name: Brenntag	Well ID: **MW-4S**	Page 1 of 1
Foth Project Number: 1477.200.250		
Foth Personnel: Kris Gamble	Date installed: March 22, 2011	
Drilling Company: BGS	Weather Conditions: Windy, 70°	
Drilling and Sampling Equipment: Geoprobe 6620DT	Borehole Diameter: 4.25" ID	
	Memo:	



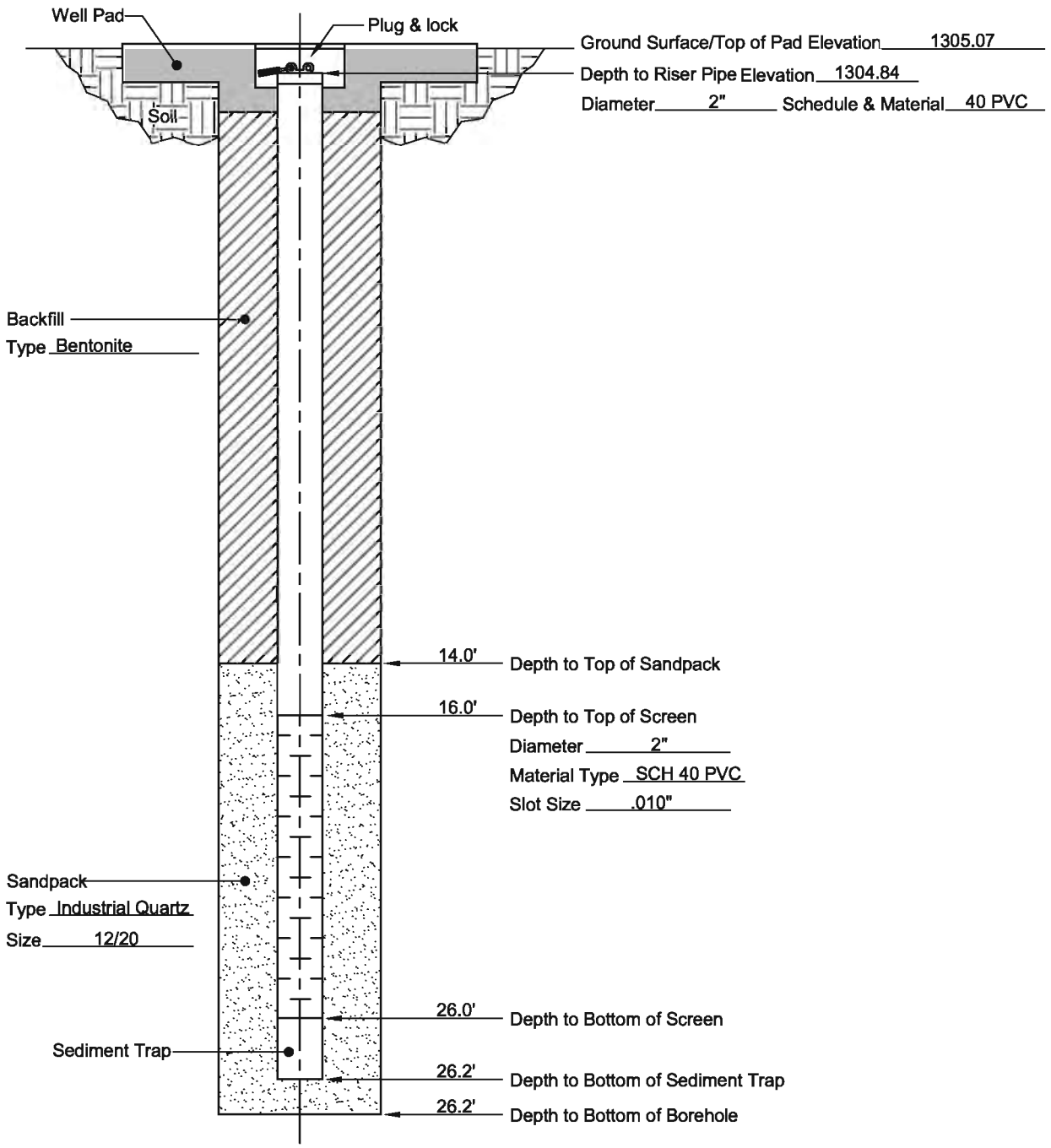
WELL COMPLETION LOG

Foth Project Name: Brenntag	Well ID: **MW-4D**	Page 1 of 1
Foth Project Number: 1477.200.250		
Foth Personnel: Kris Gamble	Date installed: March 22, 2011	
Drilling Company: BGS	Weather Conditions: Windy, 80°	
Drilling and Sampling Equipment: Geoprobe 6620DT	Borehole Diameter: 4.25" ID	
	Memo:	



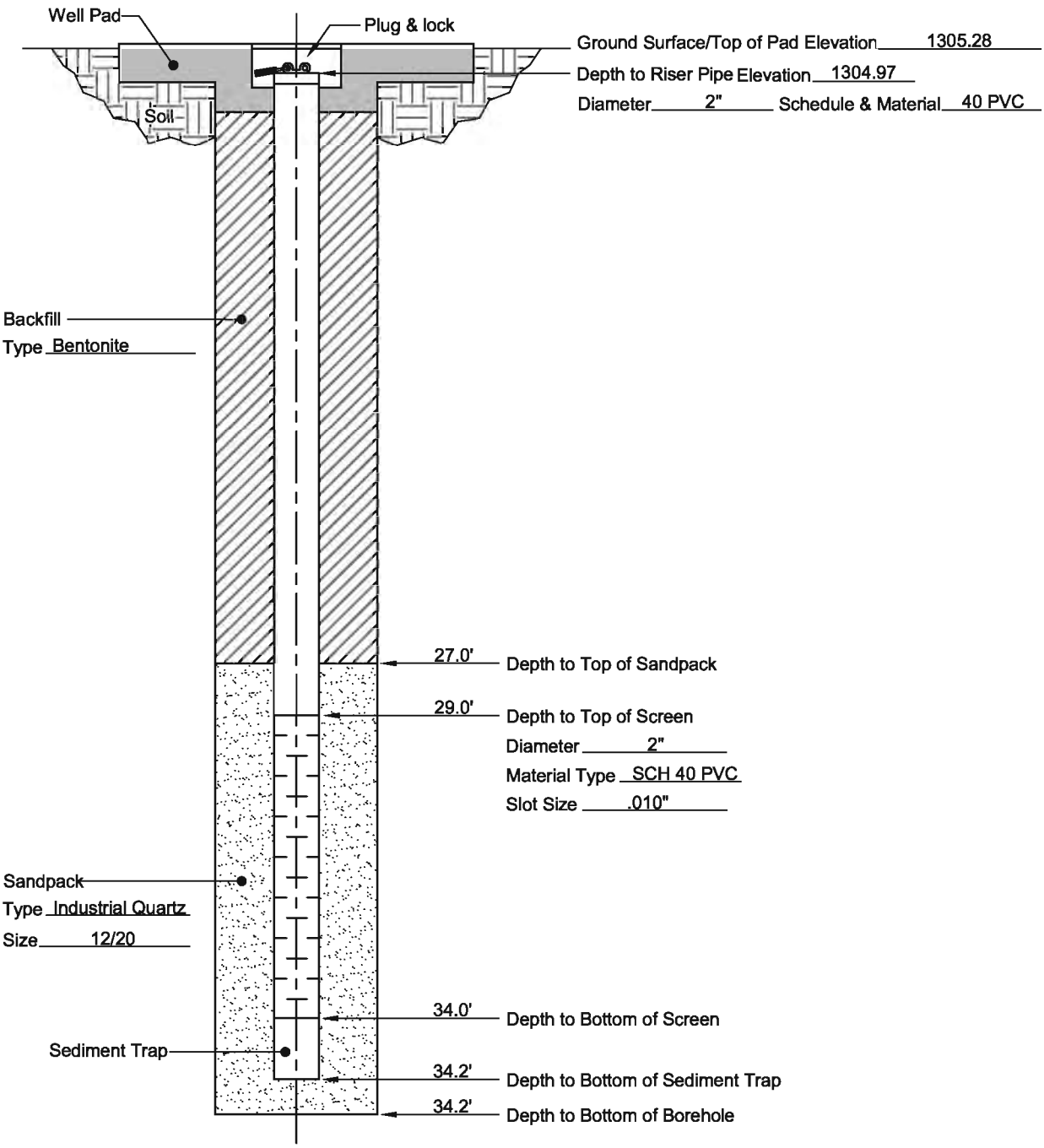
WELL COMPLETION LOG

Foth Project Name: Brenntag	Well ID: **MW-5S**	Page 1 of 1
Foth Project Number: 1477.200.250		
Foth Personnel: Kris Gamble	Date installed: March 23, 2011	
Drilling Company: BGS	Weather Conditions: 60°	
Drilling and Sampling Equipment: Geoprobe 6620DT	Borehole Diameter: 4.25" ID	
	Memo:	



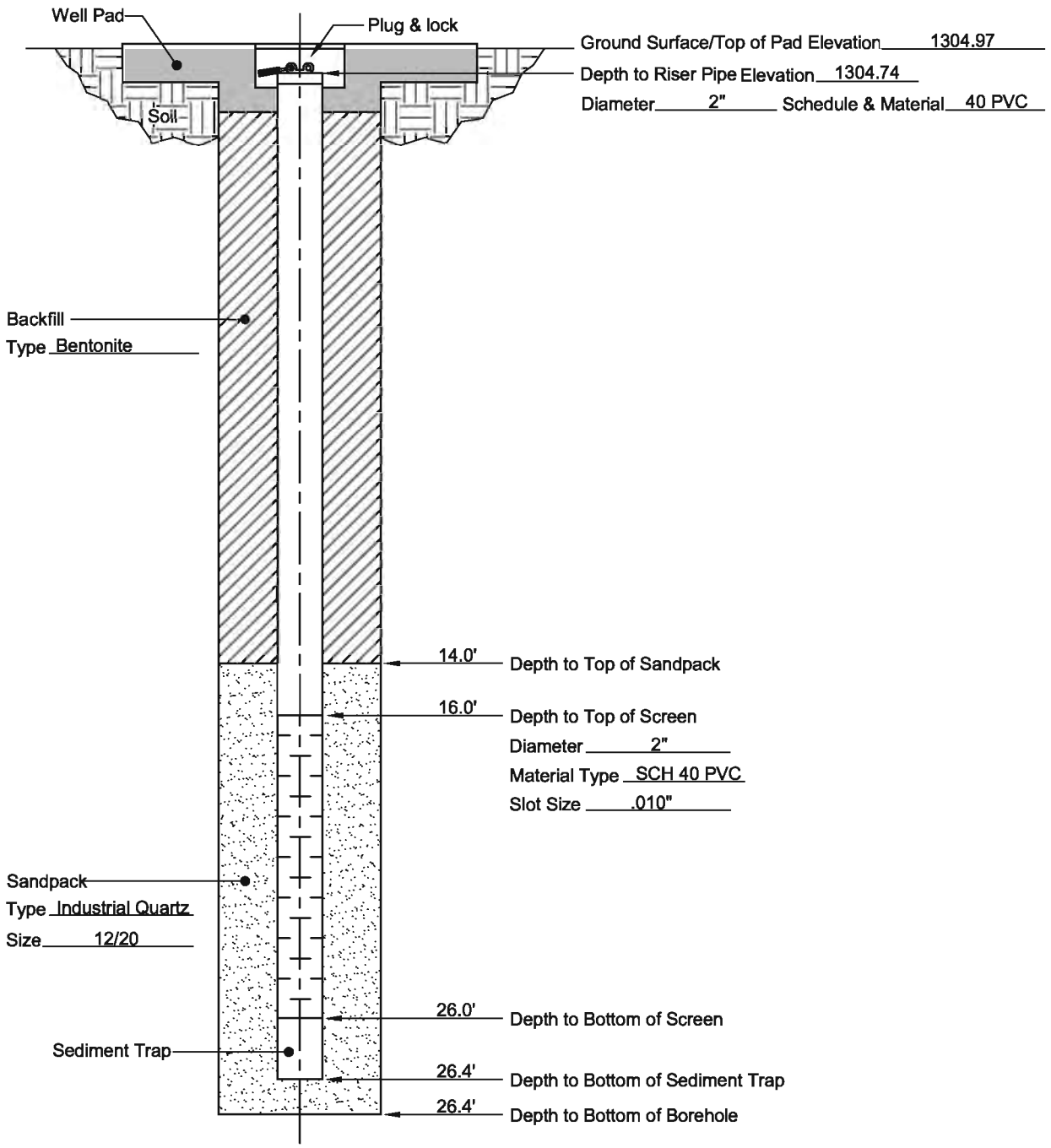
WELL COMPLETION LOG

Foth Project Name: Brenntag	Well ID: **MW-5D**	Page 1 of 1
Foth Project Number: 1477.200.250		
Foth Personnel: Kris Gamble	Date installed: March 23, 2011	
Drilling Company: BGS	Weather Conditions: 60°	
Drilling and Sampling Equipment: Geoprobe 6620DT	Borehole Diameter: 4.25" ID	
	Memo:	



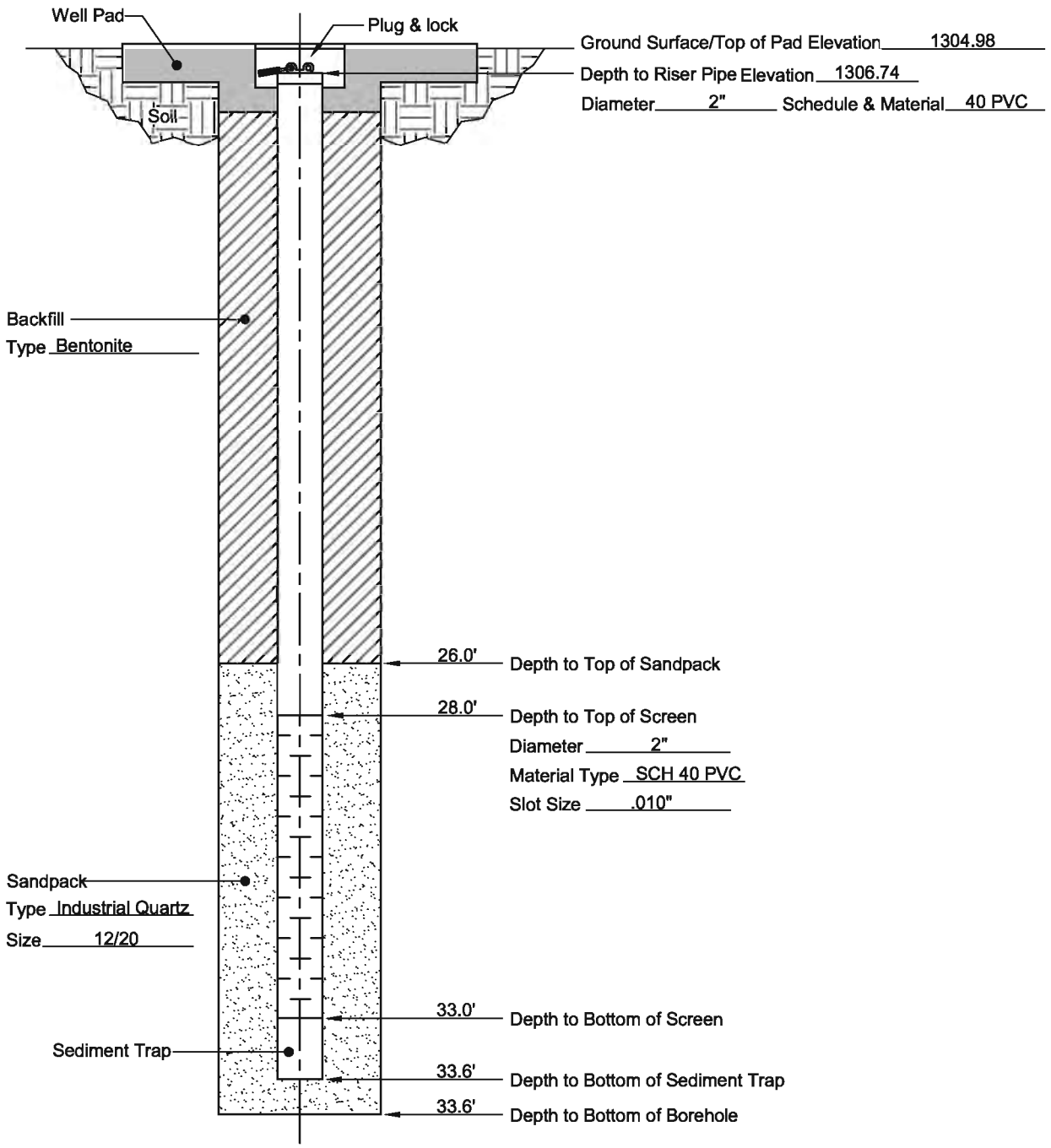
WELL COMPLETION LOG

Foth Project Name: Brenntag	Well ID: **MW-6S**	Page 1 of 1
Foth Project Number: 1477.200.250		
Foth Personnel: Kris Gamble	Date installed: March 23, 2011	
Drilling Company: BGS	Weather Conditions: Cool, 50°	
Drilling and Sampling Equipment: Geoprobe 6620DT	Borehole Diameter: 4.25" ID	
	Memo:	



WELL COMPLETION LOG

Foth Project Name: Brenntag	Well ID: **MW-6D**	Page 1 of 1
Foth Project Number: 1477.200.250		
Foth Personnel: Kris Gamble	Date installed: March 23, 2011	
Drilling Company: BGS	Weather Conditions: Windy, 60°	
Drilling and Sampling Equipment: Geoprobe 6620DT	Borehole Diameter: 4.25" ID	
	Memo:	



Bureau of Water
Geology Section
1000 SW Jackson St, Ste 420
Topeka, KS 66612-1367

Kansas

Phone: 785-296-3565
Fax: 785-296-5509
rharper@kdheks.gov
www.kdheks.gov/geo

Robert Moser, MD, Secretary
Department of Health & Environment
Sam Brownback, Governor

March 16, 2011

Below Ground Surface, Inc.
Mike Ocsody, LG
1126 E. 1823 Rd.
Lawrence, KS 66046

Re: Waiver request for flush mount monitoring wells for the **Brenntag Southwest Facility, 1520 N. Barwise Street, Wichita, Kansas**. Located in the NW ¼ of the SE ¼ of the SW ¼ of Section 9, and in the SE ¼ of the SE ¼ of the SW ¼ of Section 9, all in Township 27 South, Range 1 East, Sedgwick County, Kansas.

Dear Mr. Ocsody:

In accordance with Kansas Administrative Regulations **(K.A.R.) 28-30-9**, appealing regulations as stated in Article 30, your request for an exception to **K.A.R. 28-30-6(b)(1) & (e)** for authorization of **8** monitoring well to be constructed less than 12 inches above the **finished ground level**, at the above-mentioned site is hereby granted subject to the following stipulations:

1. Monitoring wells included in this request will be grouted from a maximum of two feet below ground surface to within one foot above the screened section.

2. The wellhead will be encased in an approved water resistant/proof manhole. The manhole will be encased in cement, which is to be domed or sloped to allow drainage away from the manhole, (refer to the attached diagram page 2).

3. The casing of the monitoring well will be sealed with an approved watertight lockable monitoring well caps (refer to the attached diagram).

4. A copy of this KDHE letter, approving your request for waiver of **K.A.R. 28-30-6(b)(1) & (e)**, will be sent to KDHE attached to the water well record (WWC-5 Form) of the first well drilled under the granted waiver.

5. **All wells drilled under the approval of this waiver request shall have both, GPS coordinates and 10-acre tract legal descriptions placed on their specific water well record (WWC-5 Form) and submitted to KDHE.**

6. Upon completion of the project the wells covered by the waiver shall be plugged in accordance with **K.A.R. 28-30-7 (d).**

The decision to grant this waiver is based almost entirely on the data provided in your request. This waiver is to cover only the **8** well mentioned and reportedly will be drilled by Below Ground Surface, Inc. Kansas Water Well Contractor License **Number 710**. This waiver will become null and void if any of the information submitted in the request is found to be false or if the wells are not constructed in strict conformity to Kansas rules and regulations and the above mentioned, stipulations. Please contact Richard Harper, (785) 296-3565, if you have any questions or concerns pertaining to this matter.

Sincerely,

Richard Harper

Richard Harper, L.G.
Chief, Water Well Unit
Bureau of Water
Geology Section

RH:
cc: Cochran
KDHE-South Central District Office

WATER WELL RECORD Mw-45 **Form WWC-5** Division of Water Resources App. No. ____

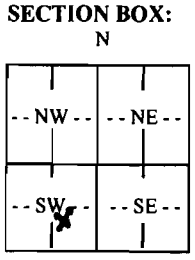
1 LOCATION OF WATER WELL: County: Sedgwick	Fraction ¼ NW ¼ SE ¼ SW ¼	Section Number 29	Township No. T 27 S	Range Number R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Brenntag Facility
1520 N. Barwise St., Wichita, KS

Global Positioning System (GPS) information:
Latitude: 37.7102 (in decimal degrees)
Longitude: 97.3290 (in decimal degrees)
Elevation: ....
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 **WATER WELL OWNER:** Brenntag North America, Inc.
RR#, Street Address, Box #: 5083 Pottsville Pike
City, State, ZIP Code : Reading, PA

3 **LOCATE WELL WITH AN "X" IN SECTION BOX:**



4 **DEPTH OF COMPLETED WELL** 25 ft.
Depth(s) Groundwater Encountered (1) 14 ft. (2) - ft. (3) - ft.
WELL'S STATIC WATER LEVEL 13.63 ft. below land surface measured on mo/day/yr....
Pump test data: Well water was - ft. after - hours pumping - gpm
EST. YIELD - gpm. Well water was - ft. after - hours pumping - gpm
Bore Hole Diameter 8 in. to 25 ft., and - in. to - ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted -
Water well disinfected? ☐ Yes ☑ No

5 **TYPE OF CASING USED:** ☐ Steel ☑ PVC ☐ Other ....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2 in. to 15 ft., Diameter - in. to - ft., Diameter - in. to - ft.
Casing height above land surface Flush in., Weight - lbs./ft., Wall thickness or gauge No. Sch. 40
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) ....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☑ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify) ....
SCREEN-PERFORATED INTERVALS: From 25 ft. to 15 ft., From - ft. to - ft.
From - ft. to - ft., From - ft. to - ft.
GRAVEL PACK INTERVALS: From 25 ft. to 13 ft., From - ft. to - ft.
From - ft. to - ft., From - ft. to - ft.

6 **GROUT MATERIAL:** ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other ....
Grout Intervals: From 13 ft. to 2 ft., From .... ft. to .... ft., From .... ft. to .... ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well Chemical Site
Direction from well .... Distance from well ....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1				
1	8	Silty Clay, Brown, Soft			
8	25	Sand, poorly sorted			

7 **CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 3/24/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo/day/year) 4/6/2011 under the business name of Below Ground Surface, Inc. by (signature) [signature]

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

WATER WELL RECORD MW-4D **Form WWC-5** Division of Water Resources App. No.

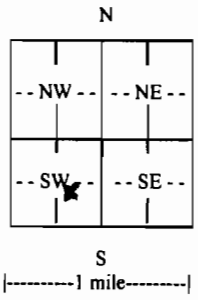
1 LOCATION OF WATER WELL: County: Sedgwick	Fraction ¼ NW ¼ SE ¼ SW ¼	Section Number 29	Township No. T 27 S	Range Number R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Brenntag Facility
1520 N. Barwise St., Wichita, KS

Global Positioning System (GPS) information:
Latitude: 37.7102 (in decimal degrees)
Longitude: 97.3290 (in decimal degrees)
Elevation: ...
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Brenntag North America, Inc.
RR#, Street Address, Box #: 5083 Pottsville Pike
City, State, ZIP Code : Reading, PA

3 LOCATE WELL WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 38 ft.
Depth(s) Groundwater Encountered (1) 14 ft. (2) - ft. (3) - ft.
WELL'S STATIC WATER LEVEL 13.66 ft. below land surface measured on mo/day/yr.
Pump test data: Well water was - ft. after - hours pumping - gpm
EST. YIELD - gpm. Well water was - ft. after - hours pumping - gpm
Bore Hole Diameter 8 in. to 38 ft., and - in. to - ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted -
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2 in. to 33 ft., Diameter - in. to - ft., Diameter - in. to - ft.
Casing height above land surface Flush in., Weight - lbs./ft., Wall thickness or gauge No. Sch. 40
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify)
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☑ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify)
SCREEN-PERFORATED INTERVALS: From 38 ft. to 33 ft., From - ft. to - ft.
From - ft. to - ft., From - ft. to - ft.
GRAVEL PACK INTERVALS: From 38 ft. to 31 ft., From - ft. to - ft.
From - ft. to - ft., From - ft. to - ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other
Grout Intervals: From 31 ft. to 2 ft., From ft. to ft., From ft. to ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well Chemical Site
Direction from well Distance from well

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1				
1	8	Silty Clay, Brown, Soft			
8	38	Sand, poorly sorted			
38	-	Weathered Shale			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 3/22/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo/day/year) 4/6/2011 under the business name of Below Ground Surface, Inc. by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

WATER WELL RECORD MW-55 **Form WWC-5** Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction ¼ SE ¼ SE ¼ SW ¼	Section Number 29	Township No. T 27 S	Range Number R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Brenntag Facility
1520 N. Barwise St., Wichita, KS

Global Positioning System (GPS) information:
Latitude: 37.7090 (in decimal degrees)
Longitude: 97.3194 (in decimal degrees)
Elevation: .....
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Brenntag North America, Inc.
RR#, Street Address, Box #: 5083 Pottsville Pike
City, State, ZIP Code : Reading, PA

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

N
W | -- NW -- | -- NE -- | E
-- SW -- | X | -- SE --
S
|---------1 mile---------|

4 DEPTH OF COMPLETED WELL 26 ft.
Depth(s) Groundwater Encountered (1)..... ft. (2).-..... ft. (3).-..... ft.
WELL'S STATIC WATER LEVEL.....ft. below land surface measured on mo/day/yr.....
Pump test data: Well water was.-.....ft. after.-..... hours pumping.-..... gpm
EST. YIELD.-.....gpm. Well water was.-.....ft. after..-..... hours pumping.-..... gpm
Bore Hole Diameter 8.....in. to 26.....ft., and .-.....in. to .-.....ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well .....
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted.-.....
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other .....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter .2..... in. to .....16. ft., Diameter .-..... in. to .-..... ft., Diameter .-..... in. to .-..... ft.
Casing height above land surface..Flush..... in., Weight .-.....lbs./ft., Wall thickness or gauge No. ..Sch. 40.....
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☑ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify) .....
SCREEN-PERFORATED INTERVALS: From.....26..... ft. to .....16..... ft., From .-..... ft. to .-..... ft.
From..-..... ft. to ..-..... ft., From .-..... ft. to .-..... ft.
GRAVEL PACK INTERVALS: From.....26..... ft. to .....14..... ft., From .-..... ft. to .-..... ft.
From..-..... ft. to ..-..... ft., From .-..... ft. to .-..... ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From ....14..... ft. to .....2..... ft., From ..... ft. to ..... ft., From ..... ft. to .....ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well Chemical Site
Direction from well ..... Distance from well .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1				
1	8	Silty Clay, Brown, Soft			
8	26	Sand, poorly sorted			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) .3/23/2011..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. .710..... This Water Well Record was completed on (mo/day/year) .4/6/2011..... under the business name of ..Below Ground Surface, Inc..... by (signature) .....

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

WATER WELL RECORD MW-5D **Form WWC-5** Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction ¼ SE ¼ SE ¼ SW ¼	Section Number 29	Township No. T 27 S	Range Number R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Brenntag Facility
1520 N. Barwise St., Wichita, KS

Global Positioning System (GPS) information:
Latitude: 37.7099 (in decimal degrees)
Longitude: 97.3199 (in decimal degrees)
Elevation: ...
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Brenntag North America, Inc.
RR#, Street Address, Box #: 5083 Pottsville Pike
City, State, ZIP Code : Reading, PA

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

N
W | NW | NE | E
SW | SE | X
S
|---------1 mile---------|

4 DEPTH OF COMPLETED WELL 34 ft.
Depth(s) Groundwater Encountered (1)..... ft. (2).-..... ft. (3).-..... ft.
WELL'S STATIC WATER LEVEL.....ft. below land surface measured on mo/day/yr.....
Pump test data: Well water was.-.....ft. after.-..... hours pumping.-..... gpm
EST. YIELD.-.....gpm. Well water was.-.....ft. after.-..... hours pumping.-..... gpm
Bore Hole Diameter 8.....in. to 34.....ft., and .-.....in. to .-.....ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well .....
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted.-.....
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other .....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2..... in. to 29..... ft., Diameter .-..... in. to .-..... ft., Diameter .-..... in. to .-..... ft.
Casing height above land surface..Flush..... in., Weight .-.....lbs./ft., Wall thickness or gauge No. Sch. 40.....
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☑ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify) .....
SCREEN-PERFORATED INTERVALS: From 34 ft. to 29 ft., From .-..... ft. to .-..... ft.
From .-..... ft. to .-..... ft., From .-..... ft. to .-..... ft.
GRAVEL PACK INTERVALS: From 34 ft. to 27 ft., From .-..... ft. to .-..... ft.
From .-..... ft. to .-..... ft., From .-..... ft. to .-..... ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From ..... ft. to ..... ft., From ..... ft. to ..... ft., From ..... ft. to .....ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well Chemical Site
Direction from well ..... Distance from well .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1				
1	8	Silty Clay, Brown, Soft			
8	34	Sand, poorly sorted			
34	–	Weathered Shale			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 3/23/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo/day/year) 4/6/2011 under the business name of Below Ground Surface, Inc. by (signature) [signature]

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

WATER WELL RECORD MW-65 **Form WWC-5** Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction: ¼ SE ¼ SE ¼ SW ¼	Section Number: 29	Township No.: T 27 S	Range Number: R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Brenntag Facility
1520 N. Barwise St., Wichita, KS

Global Positioning System (GPS) information:
Latitude: 37.7095 (in decimal degrees)
Longitude: 97.3277 (in decimal degrees)
Elevation: .....
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Brenntag North America, Inc.
RR#, Street Address, Box #: 5083 Pottsville Pike
City, State, ZIP Code : Reading, PA

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

N
W | -- NW -- | -- NE -- | E
-- SW -- | -- SE -- | X
S
|---------1 mile---------|

4 DEPTH OF COMPLETED WELL 26 ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL.....ft. below land surface measured on mo/day/yr.....
Pump test data: Well water was.....ft. after..... hours pumping..... gpm
EST. YIELD.....gpm. Well water was.....ft. after..... hours pumping..... gpm
Bore Hole Diameter 8.....in. to 26.....ft., and .....in. to .....ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well .....
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted.....
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other .....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2..... in. to 16..... ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface..Flush..... in., Weight .....lbs./ft., Wall thickness or gauge No. Sch. 40.....
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☑ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify) .....
SCREEN-PERFORATED INTERVALS: From 26 ft. to 16 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 26 ft. to 14 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From 14 ft. to 2 ft., From ..... ft. to ..... ft., From ..... ft. to .....ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well Chemical Site
Direction from well ..... Distance from well .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1				
1	8	Silty Clay, Brown, Soft			
8	26	Sand, poorly sorted			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 3/23/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo/day/year) 4/6/2011 under the business name of Below Ground Surface, Inc. by (signature) [signature]

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

WATER WELL RECORD MW-6D **Form WWC-5** Division of Water Resources App. No.

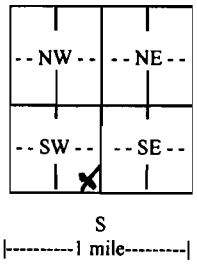
1 LOCATION OF WATER WELL: County: Sedgwick	Fraction ¼ SE ¼ SE ¼ SW ¼	Section Number 29	Township No. T 27 S	Range Number R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
Brenntag Facility
1520 N. Barwise St., Wichita, KS

Global Positioning System (GPS) information:
Latitude: 37.7095 (in decimal degrees)
Longitude: 97.3277 (in decimal degrees)
Elevation: ...
Datum: ☐ WGS 84, ☑ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Brenntag North America, Inc.
RR#, Street Address, Box #: 5083 Pottsville Pike
City, State, ZIP Code : Reading, PA

3 LOCATE WELL WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 33.6 ft.
Depth(s) Groundwater Encountered (1) ... ft. (2) - ft. (3) - ft.
WELL'S STATIC WATER LEVEL ... ft. below land surface measured on mo/day/yr ...
Pump test data: Well water was - ft. after - hours pumping - gpm
EST. YIELD - gpm. Well water was - ft. after - hours pumping - gpm
Bore Hole Diameter 8 in. to 33.6 ft., and - in. to - ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted -
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other ...
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2 in. to ... ft., Diameter - in. to - ft., Diameter - in. to - ft.
Casing height above land surface Flush in., Weight - lbs./ft., Wall thickness or gauge No. Sch. 40
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) ...
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☑ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify) ...
SCREEN-PERFORATED INTERVALS: From 33.6 ft. to 28.6 ft., From - ft. to - ft.
From - ft. to - ft., From - ft. to - ft.
GRAVEL PACK INTERVALS: From 33.6 ft. to 26.6 ft., From - ft. to - ft.
From - ft. to - ft., From - ft. to - ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other ...
Grout Intervals: From 26.6 ft. to 2 ft., From ... ft. to ... ft., From ... ft. to ... ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well Chemical Site
Direction from well ... Distance from well ...

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1				
1	8	Silty Clay, Brown, Soft			
8	33.6	Sand, poorly sorted			
33.6	-	Weathered Shale			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 3/23/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo/day/year) 4/6/2011 under the business name of Below Ground Surface, Inc. by (signature) [signature]

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☐ White Copy, ☐ Blue Copy, ☐ Pink Copy

WATER WELL PLUGGING RECORD Form WWC-5P KSA 82a-1212 ID NO.

1 LOCATION OF WATER WELL: County: Sedgwick	Fraction ¼ NW ¼ SE ¼ SW ¼	Section Number 29	Township Number T 27 S	Range Number 1 ☑ E ☐ W

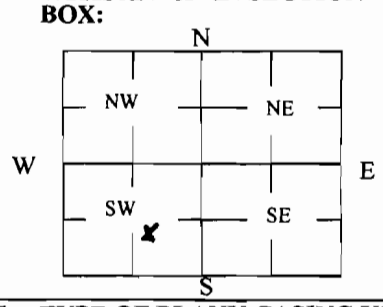
Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐ Brenntag Facility

1520 N. Barwise St., Wichita, KS

Global Positioning Systems (GPS) information:
Latitude: 37.7102 (in decimal degrees)
Longitude: 97.3290 (in decimal degrees)
Elevation:
Datum: ☐ WGS84, ☑ NAD83, ☐ NAD27
Collection Method:
☑ GPS unit (Make/Model: Garmin 60
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ < 3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ > 15 m

2 **WATER WELL OWNER:** Brenntag North America, Inc.
RR#, St. Address, Box #: 5083 Pottsville Pike
City, State ZIP Code: Reading, PA

3 **MARK WELL'S LOCATION WITH AN "X" IN SECTION BOX:**



4 **DEPTH OF WELL** 19 ft.

WELL'S STATIC WATER LEVEL 13.6 ft

WELL WAS USED AS:

☐ Domestic ☐ Public Water Supply ☐ Dewatering
☐ Irrigation ☐ Oil Field Water Supply ☑ Monitoring
☐ Feedlot ☐ Domestic (Lawn & Garden) ☐ Injection Well
☐ Industrial ☐ Air Conditioning ☐ Other

Was a chemical/bacteriological sample submitted to Department? Yes ☐ No ☑

5 **TYPE OF BLANK CASING USED:**

☐ Steel ☐ RMP (SR) ☐ Wrought ☐ Fiberglass ☐ Other (Specify below)
☑ PVC ☐ ABS ☐ Asbestos-Cement ☐ Concrete Tile

Blank casing diameter 1 in. Was casing pulled? Yes ☑ No ☐ If yes, how much 9 ft
Casing height above or below land surface Flush in.

6 **GROUT PLUG MATERIAL:** ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other

Grout Plug Intervals: From 19 ft. to 2 ft., From ____ ft. to ____ ft., From ____ to ____ ft.

What is the nearest source of possible contamination:

☐ Septic tank ☐ Seepage pit ☐ Fuel Storage ☑ Other (specify below)
☐ Sewer lines ☐ Pit privy ☐ Fertilizer storage Chemical Site
☐ Watertight sewer lines ☐ Sewage lagoon ☐ Insecticide storage
☐ Lateral lines ☐ Feedyard ☐ Abandoned water well Direction from well?
☐ Cess pool ☐ Livestock pens ☐ Oil well/Gas well How many feet?

FROM	TO	PLUGGING MATERIALS	FROM	TO	PLUGGING MATERIALS
19	2	Bentonite Grout			

7 **CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was plugged under my jurisdiction and was completed on (mo/day/year) 3/22/2011 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710. This Water Well Record was completed on (mo/day/year) 4/6/2011 under the business name of Below Ground Surface, Inc. by (signature) [signature]

INSTRUCTIONS: Use typewriter or ballpoint pen. Please press firmly and print clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 785/296-5524. Send one to Water Well Owner and retain one for your records. Visit us at http://www.kdheks.gov/waterwell/index.html.

Check one: ☐ White Copy ☐ Blue Copy ☐ Pink Copy

Attachment 3
Groundwater Monitoring Field Forms

March 30, 2011 1 of 6
Brenntag 087013
David King / Spanky Brooks on site
Meet Jerry Estelle Sign in 830
Tailgate Safety
Collect H_2O Static Water Levels
Record on Brenntag / Foth Sheet
went to start Sampling No
hydrosleeves in well
contact Kris Gamble + wait
for call back. Approved
by KDHE place bags this morning
in MW-1S 2S 3S
will sample all wells ~~in~~
Monday morning April 4

March 4, 2011
ONsite 900 Sign In
Tailgate Safety David King
Record Static H_2O Levels
Start collecting Sample at MW-1s
Bag + MS MSD S sample Time 945
Sample MW-1D Bag Sample time 955
Redeploy New Hydrosleeves.
Sample MW-2s Bag 1015
Sample MW-2D Bag 1025
David King 4/4/11

4/4/11 cont. Brenntag 2 of 6
Redeploy Bags in MW-2s + 2d
Chris Carrie on Site 1025

Sample MW-3s Bag
Sample Time: 1040
Redeploy New Hydrosleeve
Sample MW-3D Bag
Sample Time: 1050

MW-3s Bag was not full
may not be a quality sample
slowly lowered to collect enough
for 3 VOA vials

MW-4s Bag split with KDHE
Sample time:
No Water in Bag
Call Kris Gamble will have
to low flow sample
MW-4D Bag
2 VOA Vials with Sample time
11:25

David King

4/4/11 cont. Brenntag 3 of 6

MW-5s Bag Sample time 1140
split with KDHE 200A
Not Enough Water for 3
MW-5D Bag Sample time: 1205
Blind Duplicate

MW-6s Bag Sample Time: 1210

MW-6D Bag Sample Time: 1215
Off site for Lunch + retrieve
YSI
onsite 1300
MW-4s
Set pump at 22'
Pump on 700 ml 3 min

Temp. C°	Cond	DO	pH	ORP	Gallons	
16.52	0.893	1.29	6.88	203.5	3	14.74
16.56	0.900	0.81	6.90	101.8	6	14.76
16.61	0.913	0.65	6.94	101.7	9	14.76
16.66	0.918	0.59	6.95	101.5	12	14.76

~~Pump off~~ split Samples with KDHE
Sample Time: 1435
Decon Pump Set Hydrosleeve
Chris Carry off site 1440
[signature] 4/4/11

4/4/11 cont. Brenntag 4 of 6
Jacob Goertz GSI onsite 1425

MW-3s Pump
Temp. Cond. DO pH Orp Time SWL
Use Field sheets from Foth
Sample Time 1530
Decon Pump
Save H_2O
Set Hydro Sleeve

MW-3D Pump
Field Sheets for Purging
Sample Time 1625
Blind Duplicate Pump
Set Hydrosleeve

Decon Pump
Save H_2O

Take Sample for Equipment Blank
Pour DI over pump (Equipment Blank)
Sample Time 1645

MW-5s Pump See Purge Form
Sample Time: 1720
~~Decon Pump~~ Set Hydrosleeve
[signature]

4/4/11 Cont. Brewington 5of6

MW-6S Pump
See Purge Sheet.
Sample Time: 1750
Save H_2O
Decon Pump
Set Hydrosleeve

MW-6D Pump
See Purge Sheet
Sample Time: 1900
Save H_2O
Decon Pump
Set Hydrosleeve

To Office to Ship Samples

Call Kris Gamble 4/5/11
will take Iron Analysis
from unpreserved Bottles
will Record ~~it~~ on Field
Sheets.

Pack Samples: 1300

Back to Brewington to collect
Waste Soil + Purge Water 4/5/11

4/5/11 Cont. Brewington 6of6

Onsite Dand Rig 1530
Sample H_2O Purge +
Soil

Sign in Fail gate Safety
H_2O out of 6 Drums
Sample time 1545
For TCLP Metals
Soil from 12 Drums
Composite
Sample Time 1600
For TCLP
Pack on Ice
off Site 1630
To Shipping

4/5/11

Geotechnical Services, Inc. - Daily Safety Tailgate Meetings

Project Name: Brentlag for Roth Infrastructure
Project Number: 087013
Location of Meeting: Brentlag
Presented By: David Rinck

Check the topics/information reviewed and write a plan of action:

Topic			
Site Specific Information			
Daily Work Scope	✓	3/30/11	
Health & Safety Plan			
Directions to Hospital			
Fire Extinguisher/First Aid/Telephone Locations			
PPE Locations			
Emergency Procedures	✓		
Overhead/Underground Utility Locations and Clearance			
Smoking in Designated Areas			
Accident Prevention & Safety			
Alibis (Excuses)			
Complacency			
Equipment Familarization			
Flying Debris Hazards			
Fork Lifts, Skid Loaders, Lifts			
Hand/Foot Injuries			
Hand Tools			
Ladders			
Mind Not on Task			
Vibration & Repeat Movement Injuries (Ergonomics)			
Sharp Objects, Rebar, and Scrap Metal Hazards			
No Horseplay	✓		
Orderly Site/Housekeeping	✓		
Proper Lifting/Back Safety			
Tools and Equipment			
Rushing			
Slips, Trips and Falls			
Stains and Sprains			

Topic			
Vehicle Safety			
Backing Hazards	✓		
Driving/Road Conditions			
Gasoline			
Preventing Accidents			
Refueling Procedures			
Seat Belts			
Safe Driving			
Vehicle Safety			
PPE			
Protective Clothing	✓		
Hard Hats	✓		
Hearing Protection			
Eye Protection	✓		
Safety Boots	✓		
High Visibility Clothing	✓		
Safety Gloves			
Fall Protection			
Environmental Hazards			
Cold Stress			
Heat Stress			
Insects; Ticks/Mosquitoes/Wasps			
Effects of Alcohol			
Fatigue			
Hydration			
First Aid			
Over Counter Medicines			
Sun Exposure/Sun Screen			
Poison Ivy/Oak			

Topic			
Other Hazards			
Visitors	✓		
Decontamination Procedures	✓		
Fire Hazards			
Severe Weather (lightning, floods, tornado, snow, ice, wind)			
MSDS and Chemical Safety	✓		
Watching Out for Yourself			
Teamwork - Looking Out for One Another			
Public Safety, Exclusion Zones			
Confined Space			
Confined Space			
Dust and Vapor Concerns			
Flagging Traffic			
Excavation/Trenching			
Lock Out/Tag Out			
Respirators - (type, protection factor)			
Testing Equipment/Meters/Monitors			
Watching Out for Heavy Equipment			
Level of PPE; A, B, C (D)			
Upgrade to Protection Level ____ PID (____ eV) > ____ ppm			
Work stoppage at ____ > ppm, LEL >10% PID			
Other			
Forklift watch out for	✓		
Mosley Street			

Signature/Company/Date	Signature/Company/Date	Signature/Company/Date
3/30/11	GSI	
3/30/11	GSI	
4/4/11	GSI	
4/4/11	KDHE	
4/5/11	GSI	

Action Plan Notes *(Write additional notes on the back.)*

Groundwater Monitoring Event

March Month Year 2011

Project Name Brewster

Project Location 1520 Barwise Wichita

Project Number 651 087013

Well ID	Date	Depth to and/or LNAPLThickness	Depth to Water (from TOC)	Depth to and/or DNAPLThickness	Well Depth	Sample ID(s)	Sample Time
MW-1S	3/30/11		12.49				
MW-1D	3/30/11		12.42				
MW-2S	3/30/11		14.06				
MW-2D	3/30/11		13.91				
MW-3S	3/30/11		14.02				
MW-3D	3/30/11		14.03				
MW-4S	3/30/11		13.68				
MW-4D	3/30/11		13.66				
MW-5S	3/30/11		12.96				
MW-5D	3/30/11		12.95				
MW-6S	3/30/11		12.86				
MW-6D	3/30/11		12.90				

Well Purge and Sampling Form

FG Project Name: Brenntag	Well ID: MW-3S
FG Project Number:	
Date: 5/30/11	Well Condition: good
Field Crew: David Ring Spanky Brooks	Weather Conditions: WINDY 40S

Well Information

Total Depth (ft): 24.53	Casing Diameter 2
Static GW Depth (ft): 14.10	Measuring Point: N
Water Column Height (ft):	Well Completion: ☒ Flush Mount ☐ Stick-up
Water Extraction Method: ☐ Bailer ☒ Pump	Description: GS 12 volt Mini Monsoon
Screened Interval (ft): 10'	Pump Intake Depth (ft): 22
Initial Flow Rate: (specify units) 500 ml/min	

Stabilization Information 3% 10% 10%

Time	Depth to Water (feet)	Total Volume Purged (Gallons)	Temp (°C)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	pH (std. units)	ORP	Color, Turbidity, or Other Comments
3	14.10	1500ml/min	16.46	0.824	5.6	7.04	55.5	Cloudy
6	1410	3000	16.60	0.838	1.46	6.98	58.0	cloudy
9	1410	4500	16.46	0.847	1.10	6.97	61.4	slightly cloudy
12	1410	6000	16.60	0.859	0.88	6.99	64.2	Almost clear
15	1410	7500	16.61	0.863	0.78	6.99	65.5	Almost clear

Sample Information

Sample Date/Time: 4/4/11	Sampler's Name: David Ring
Sample ID: MW-3S Pump	QC Sample ID:

Sample Parameters:

See COC

QC Samples
☐ MS/MSD (all analyses 2 extra volumes per method) ☐ Dup (all analyses 1 extra volume per method)

Color: ☒ clear ☐ other (describe) Almost Turbidity: ☐ none, ☒ low, ☐ medium, ☐ high

Comments Sample Time 1530
a Mothe
ppm Ferrous Iron 0.09
ppm Total Iron 0.35

Well Purge and Sampling Form

FG Project Name: Brenntag	Well ID: MW - 3D
FG Project Number:	
Date: 3/30/11	Well Condition: good
Field Crew: David Ring Spanky Brooks	Weather Conditions: Windy 50s

Well Information

Total Depth (ft): 37.81	Casing Diameter 2
Static GW Depth (ft): 14.03	Measuring Point: N
Water Column Height (ft):	Well Completion: ☒ Flush Mount ☐ Stick-up
Water Extraction Method: ☐ Bailer ☒ Pump	Description: Mini Monsoon SS 12 Volt
Screened Interval (ft): 5'	Pump Intake Depth (ft): 32
Initial Flow Rate: (specify units) 900 ml/m	

Stabilization Information

Time	Depth to Water (feet)	Total Volume Purged (Gallons)	Temp (°C)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	pH (std. units)	ORP	Color, Turbidity, or Other Comments
3	14.15	900 x3	17.72	1.119	2.12	6.99	44.2	Slightly Cloudy
6	14.15	1800 x3	17.68	1.115	1.01	6.96	36.5	Almost Clear
9	14.15	2700 x3	17.76	1.114	0.60	6.96	29.0	" "
12	14.15	3600 x3	17.82	1.116	0.54	6.96	19.4	Clear
15	14.15	4500 x3	17.79	1.114	0.47	6.97	15.6	Clear

Sample Information

Sample Date/Time: 4/4/11	Sampler's Name: David Ring
Sample ID: MW-3D Pump	QC Sample ID:

Sample Parameters:

Duplicate of All

QC Samples
☐ MS/MSD (all analyses 2 extra volumes per method) ☒ Dup (all analyses 1 extra volume per method)

Color: ☒ clear ☐ other (describe) Turbidity: ☐ none, ☒ low, ☐ medium, ☐ high

Comments Sample time 16 25

LaMotte	Duplicate
ppm ferrous Iron 0.09	ppm ferrous Iron 0.12
ppm Total Iron 0.26	ppm Total Iron 0.32

Well Purge and Sampling Form

FG Project Name: Brenntag	Well ID: MW-55 Pump
FG Project Number:	
Date: 3/30/11	Well Condition: Good
Field Crew: David Ring Spanky Brooks	Weather Conditions: WINDY 40s

Well Information

Total Depth (ft):	Casing Diameter 2
Static GW Depth (ft): 12.98	Measuring Point: North Side
Water Column Height (ft):	Well Completion: ☒ Flush Mount ☐ Stick-up
Water Extraction Method: ☐ Bailer ☒ Pump	Description: SS MiniMonsoon 12 volt
Screened Interval (ft): 10'	Pump Intake Depth (ft): 22'
Initial Flow Rate: (specify units) 65 ml/min x 3 = 195	

Stabilization Information

Time	Depth to Water (feet)	Total Volume Purged (~~Gallons~~)	Temp (°C)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	pH (std. units)	ORP	Color, Turbidity, or Other Comments
3	12.98	695	17.19	0.947	1.71	6.99	54.2	Cloudy
6	13.02	390	17.14	0.944	0.92	6.95	57.0	Cloudy
9	13.01	585	17.19	0.940	0.52	6.95	58.1	Slightly Cloudy
12	13.01	780	17.18	0.941	0.42	6.96	57.7	Almost Clear

Sample Information

Sample Date/Time: 4/4/11	Sampler's Name: David Ring
Sample ID: MW-55 Pump	QC Sample ID:

Sample Parameters:

See COC

QC Samples
☐ MS/MSD (all analyses 2 extra volumes per method) ☐ Dup (all analyses 1 extra volume per method)

Color: ☐ clear ☐ other (describe) Turbidity: ☐ none, ☐ low, ☐ medium, ☐ high

Comments Sample Time 1720

LaMotte

ppm Ferrous Iron 0.12

ppm Total Iron ~~0.43~~ 3.41

Well Purge and Sampling Form

FG Project Name: Brenntag	Well ID: MW-5D pump
FG Project Number:	
Date: 3/30/11	Well Condition: Good
Field Crew: David Ring Spanky Brooks	Weather Conditions: Windy 40s

Well Information

Total Depth (ft):	Casing Diameter 2
Static GW Depth (ft): 1295	Measuring Point: North side
Water Column Height (ft): 6	Well Completion: ☒ Flush Mount ☐ Stick-up
Water Extraction Method: ☐ Bailer ☒ Pump	Description: SS mini MONSOON 12volt
Screened Interval (ft): 5'	Pump Intake Depth (ft):
Initial Flow Rate: (specify units) 750 ml/min x 3 = 2250	

Stabilization Information

Time	Depth to Water (feet)	Total Volume Purged (Gallons)	Temp (°C)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	pH (std. units)	ORP	Color, Turbidity, or Other Comments
3	1298	2250	18.00	1.048	5.43	6.95	62.1	Slightly Cloudy
6	1301	4500	18.06	1.087	0.84	6.87	53.8	Slightly Cloudy
9	1301	6750	18.15	1.093	0.56	6.88	48.4	Almost clear
12	13.00	9000	18.13	1.092	0.47	6.89	45.3	Almost clear
15	13.00	11250	18.18	1.094	0.44	6.89	43.1	Almost

Sample Information

Sample Date/Time: 4/4/11 1750	Sampler's Name: David Ring
Sample ID: MW-5D Pump	QC Sample ID:

Sample Parameters:

See COC

QC Samples
☐ MS/MSD (all analyses 2 extra volumes per method) ☐ Dup (all analyses 1 extra volume per method)

Color: ☒ clear ☐ other (describe) Almost Turbidity: ☐ none, ☒ low, ☐ medium, ☐ high

Comments

Lag Matter

ppm Ferrous Iron 0.13

ppm Total Iron 0.32

Well Purge and Sampling Form

FG Project Name: Brenntag	Well ID: MW-6S pump
FG Project Number:	
Date: 3/30/11	Well Condition: Good
Field Crew: David Ring Spanky Brooks	Weather Conditions: Windy Low 40s

Well Information

Total Depth (ft):	Casing Diameter 2
Static GW Depth (ft): 12.86	Measuring Point: North Side
Water Column Height (ft):	Well Completion: ☒ Flush Mount ☐ Stick-up
Water Extraction Method: ☐ Bailer ☒ Pump	Description: SS minimonsoon 12V
Screened Interval (ft): 10	Pump Intake Depth (ft): 22

Initial Flow Rate: (specify units) 550 ml/min x3 = 1650

Stabilization Information

Time	Depth to Water (feet)	Total Volume Purged (Gallons)	Temp (°C)	Conductivity (_S/cm)	Dissolved Oxygen (mg/L)	pH (std. units)	ORP	Color, Turbidity, or Other Comments
3	12.91	1650	16.81	1.086	4.16	6.83	-87.6	Cloudy
6	12.91	3300	17.36	1.071	0.84	6.81	-87.9	Cloudy
9	12.91	4950	17.40	1.030	0.52	6.85	-87.1	Slightly Cloudy
12	12.91	6600	17.64	1.025	0.43	6.85	-87.4	Slightly Cloudy

Sample Information

Sample Date/Time: 4/4/11 1830	Sampler's Name: David Ring
Sample ID: MW-6S pump	QC Sample ID:

Sample Parameters:

See COC

QC Samples
☐ MS/MSD (all analyses 2 extra volumes per method) ☐ Dup (all analyses 1 extra volume per method)

Color: ☐ clear ☒ other (describe) Slightly Cloudy Turbidity: ☐ none, ☒ low, ☐ medium, ☐ high

Comments

La Motte

ppm Ferrous Iron 2.90

ppm Total Iron 3.33

Well Purge and Sampling Form

FG Project Name: Brenntag	Well ID: MW-6D
FG Project Number:	
Date: 3/30/11	Well Condition: Good
Field Crew: David Ring Spanky Brooks	Weather Conditions:

Well Information

Total Depth (ft):	Casing Diameter 2"
Static GW Depth (ft): 1290	Measuring Point: N
Water Column Height (ft):	Well Completion: ☒ Flush Mount ☐ Stick-up
Water Extraction Method: ☐ Bailer ☒ Pump	Description: SS Minimonsoon 12 volt
Screened Interval (ft): 5'	Pump Intake Depth (ft): 32

Initial Flow Rate: (specify units) 650 ml/min x 3 = 1950

Stabilization Information

Time	Depth to Water (feet)	Total Volume Purged (Gallons)	Temp (°C)	Conductivity (S/cm)	Dissolved Oxygen (mg/L)	pH (std. units)	ORP	Color, Turbidity, or Other Comments
3	1292	1950	17.99	1.080	1.77	7.02	-9.7	Cloudy
6	1294	3900	18.30	1.090	0.63	7.00	-13.0	Slightly Cloudy
9	1293		18.23	1.087	0.40	6.97	-12.3	Almost clear
12	1293		18.23	1.079	0.31	6.95	-10.5	Almost clear

Sample Information

Sample Date/Time: 4/4/11 1900	Sampler's Name: David Ring
Sample ID: MW-6D Pump	QC Sample ID:

Sample Parameters:

See COC

QC Samples
☐ MS/MSD (all analyses 2 extra volumes per method) ☐ Dup (all analyses 1 extra volume per method)

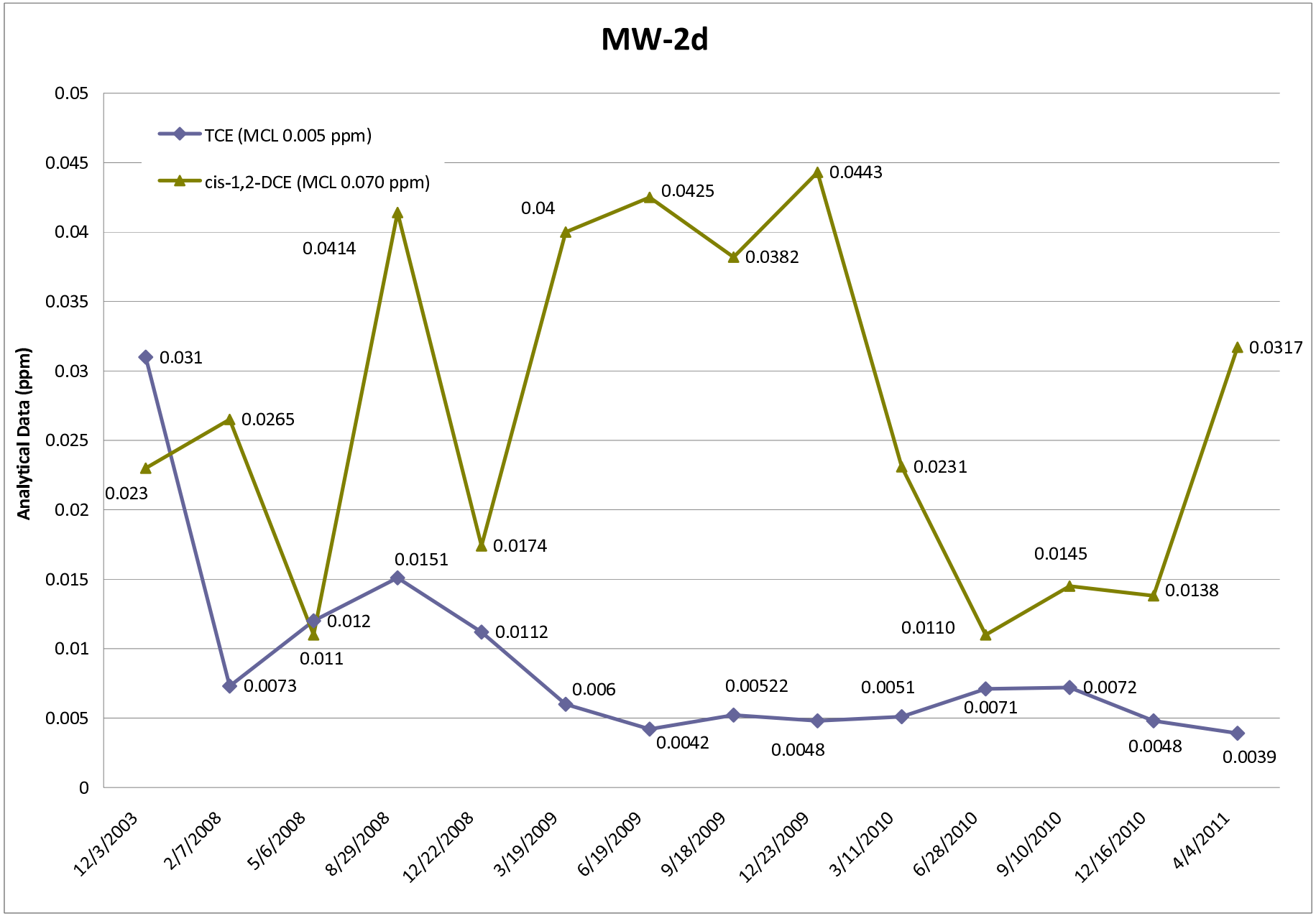
Color: ☒ clear ☐ other (describe) Almost Turbidity: ☐ none, ☒ low, ☐ medium, ☐ high

Comments

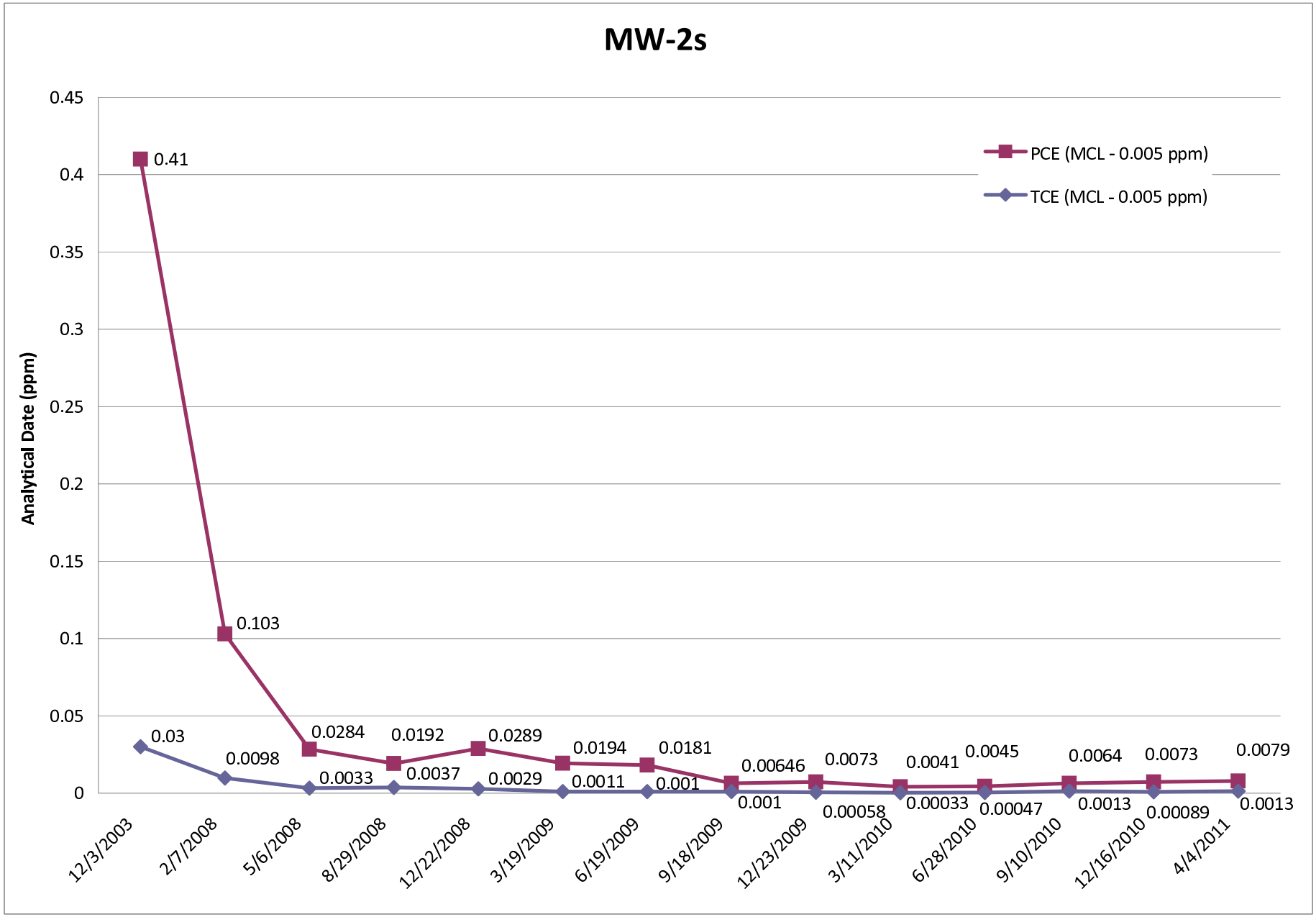
ppm Ferrous Iron 0.20
ppm Total Iron 1.02
LaMotte

Attachment 4
Graphical Trend Analysis
MW-2D
MW-2S
MW-3D
MW-3S

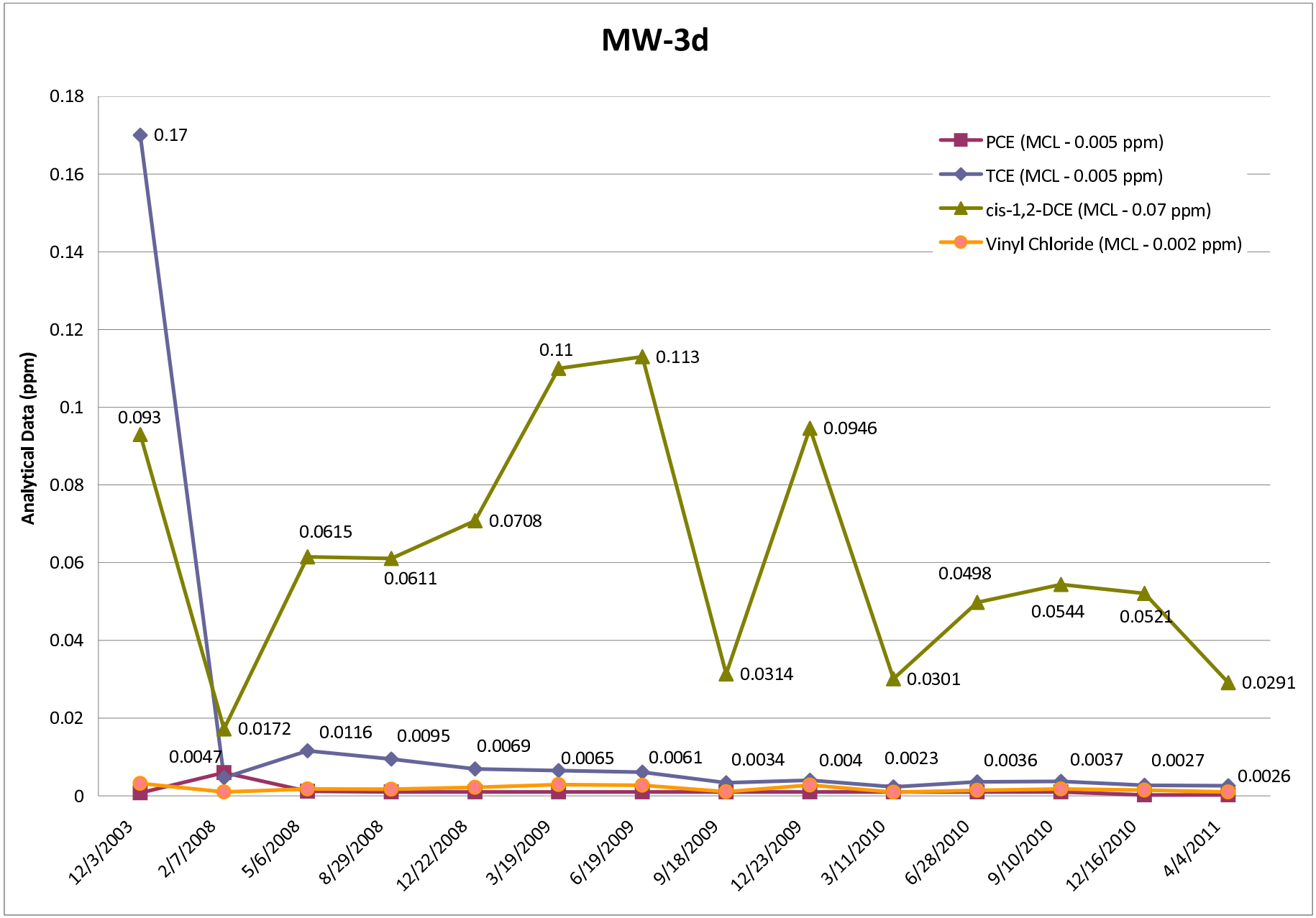
Trend Analysis Graph
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS



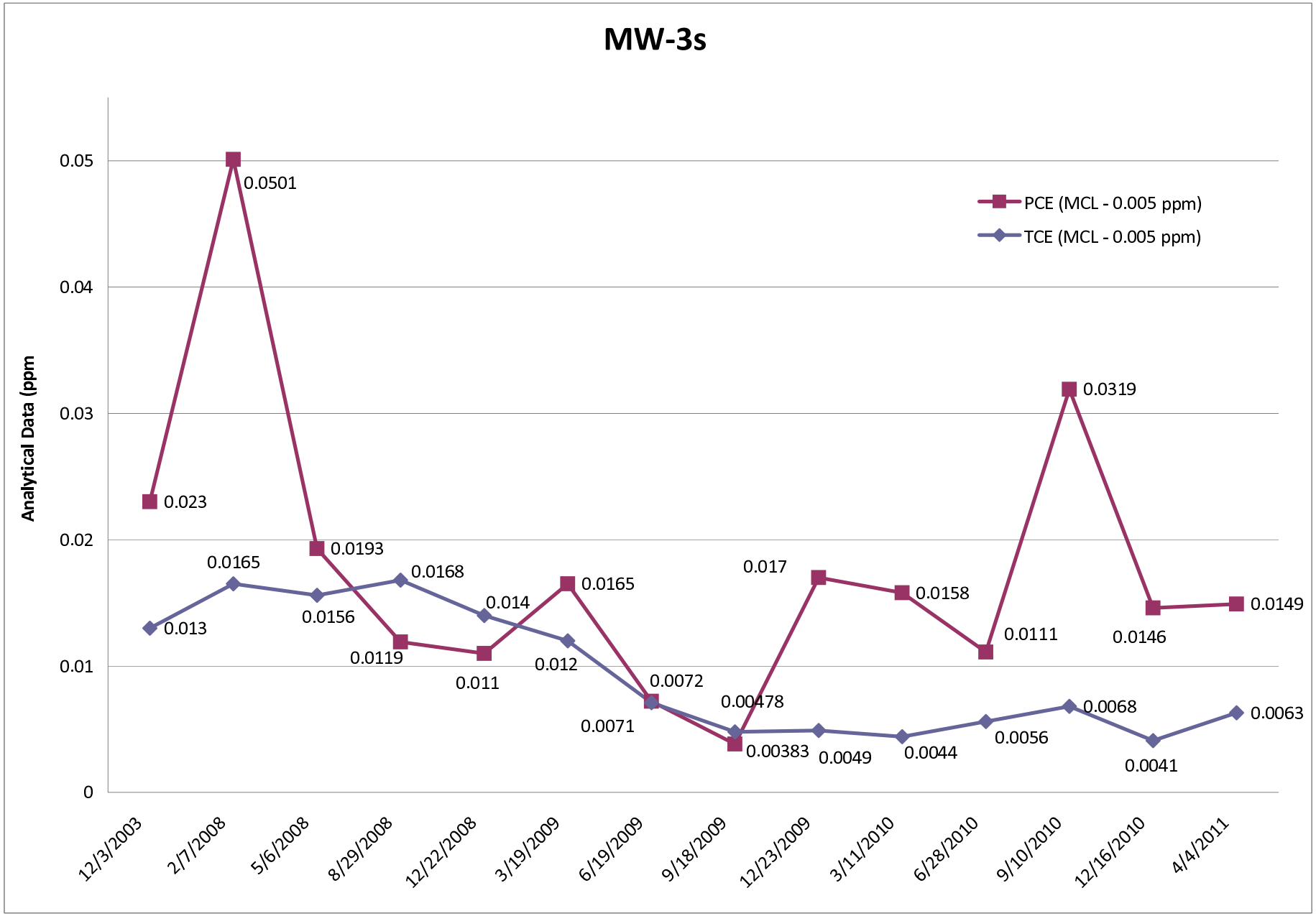
Trend Analysis Graph
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS



Trend Analysis Graph
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS



Trend Analysis Graph
Through April 2011
Brenntag Southwest, Inc.
Wichita, KS



Attachment 5
Analytical Data & Validation

Southeast ACCUTEST LABORATORIES

04/20/11

Technical Report for

Geotechnical Services Inc

Brenntag, Wichita, KS

Accutest Job Number: F81314

Sampling Date: 04/04/11

Report to:

GSI
4503 E 47th St S
Wichita, KS 67210
dring@gsinetwork.com; kris.gamble@foth.com

ATTN: David Ring

Total number of pages in report: **88**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest Laboratories

Sample Summary

Geotechnical Services Inc

Brenntag, Wichita, KS

Job No: F81314

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81314-1	04/04/11	09:45	DR	04/06/11	AQ	Ground Water	MW-1S BAG
F81314-1D	04/04/11	09:45	DR	04/06/11	AQ	Water Dup/MSD	MW-1S BAG
F81314-1S	04/04/11	09:45	DR	04/06/11	AQ	Water Matrix Spike	MW-1S BAG
F81314-2	04/04/11	09:55	DR	04/06/11	AQ	Ground Water	MW-1D BAG
F81314-3	04/04/11	10:15	DR	04/06/11	AQ	Ground Water	MW-2S BAG
F81314-4	04/04/11	10:25	DR	04/06/11	AQ	Ground Water	MW-2D BAG
F81314-5	04/04/11	10:40	DR	04/06/11	AQ	Ground Water	MW-3S BAG
F81314-6	04/04/11	10:50	DR	04/06/11	AQ	Ground Water	MW-3D BAG
F81314-7	04/04/11	11:25	DR	04/06/11	AQ	Ground Water	MW-4D BAG
F81314-8	04/04/11	11:40	DR	04/06/11	AQ	Ground Water	MW-5S BAG
F81314-9	04/04/11	12:05	DR	04/06/11	AQ	Ground Water	MW-5D BAG
F81314-10	04/04/11	00:00	DR	04/06/11	AQ	Ground Water	BLIND DUPLICATE
F81314-11	04/04/11	12:10	DR	04/06/11	AQ	Ground Water	MW-6S BAG

Accutest Laboratories

Sample Summary
(continued)

Geotechnical Services Inc

Brenntag, Wichita, KS

Job No: F81314

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81314-12	04/04/11	12:15	DR	04/06/11	AQ	Ground Water	MW-6D BAG
F81314-13	04/04/11	14:35	DR	04/06/11	AQ	Ground Water	MW-4S PUMP
F81314-14	04/04/11	15:30	DR	04/06/11	AQ	Ground Water	MW-3S PUMP
F81314-15	04/04/11	16:25	DR	04/06/11	AQ	Ground Water	MW-3D PUMP
F81314-16	04/04/11	00:00	DR	04/06/11	AQ	Ground Water	BLIND DUPLICATE
F81314-17	04/04/11	00:00	DR	04/06/11	AQ	Trip Blank Water	TRIP BLANK

Southeast

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1S BAG		
Lab Sample ID:	F81314-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050058.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0032	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1S BAG		
Lab Sample ID:	F81314-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0032	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0011	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1D BAG		
Lab Sample ID:	F81314-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050064.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00031	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00025	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0114	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1D BAG		
Lab Sample ID:	F81314-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0114	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0011	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2S BAG		
Lab Sample ID:	F81314-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050065.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00033	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0026	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2S BAG		
Lab Sample ID:	F81314-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0026	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0079	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0013	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2D BAG		
Lab Sample ID:	F81314-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050066.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00024	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00061	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00082	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0317	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2D BAG		
Lab Sample ID:	F81314-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00051	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0322	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0039	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.00090	0.0010	0.00022	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S BAG		
Lab Sample ID:	F81314-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050067.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0024	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S BAG		
Lab Sample ID:	F81314-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0024	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00030	0.0010	0.00020	mg/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0149	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0063	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D BAG		
Lab Sample ID:	F81314-6	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050068.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00040	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00059	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0291	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D BAG		
Lab Sample ID:	F81314-6	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00051	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0296	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00026	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0026	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4D BAG		
Lab Sample ID:	F81314-7	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050069.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	0.0016	0.0010	0.00020	mg/l	
75-25-2	Bromoform	0.00042	0.0010	0.00020	mg/l	J
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	0.0013	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00041	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00051	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	0.0019	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0201	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4D BAG		
Lab Sample ID:	F81314-7	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0204	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00069	0.0010	0.00025	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0020	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.00044	0.0010	0.00022	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S BAG		
Lab Sample ID:	F81314-8	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050070.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00036	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00086	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0227	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S BAG		
Lab Sample ID:	F81314-8	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00062	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0233	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0279	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0317	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.00064	0.0010	0.00022	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D BAG		
Lab Sample ID:	F81314-9	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050071.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	0.0015	0.0010	0.00020	mg/l	
75-25-2	Bromoform	0.00043	0.0010	0.00020	mg/l	J
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	0.0013	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00044	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0013	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	0.0016	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0351	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D BAG		
Lab Sample ID:	F81314-9	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00059	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0357	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00066	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00026	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0126	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0010	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-10	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0050072.D	1	04/15/11	NMC	n/a	n/a	VM2022
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	0.0014	0.0010	0.00020	mg/l	
75-25-2	Bromoform	0.00038	0.0010	0.00020	mg/l	J
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	0.0012	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00051	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0014	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	0.0015	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0389	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-10	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00062	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0395	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00059	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00025	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0133	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0011	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S BAG		
Lab Sample ID:	F81314-11	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074903.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00032	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00028	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0232	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S BAG		
Lab Sample ID:	F81314-11	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0235	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	0.0028	0.0050	0.0020	mg/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0225	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0115	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0029	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D BAG		
Lab Sample ID:	F81314-12	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00028	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	0.00035	0.0010	0.00022	mg/l	J
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00064	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0012	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0483	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D BAG		
Lab Sample ID:	F81314-12	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00077	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0490	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00072	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00024	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0108	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0015	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4S PUMP		
Lab Sample ID:	F81314-13	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074905.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00049	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0044	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4S PUMP		
Lab Sample ID:	F81314-13	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0044	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00065	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00020	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0019	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S PUMP		
Lab Sample ID:	F81314-14	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074906.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0079	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S PUMP		
Lab Sample ID:	F81314-14	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0079	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0072	0.0010	0.00025	mg/l	
108-88-3	Toluene	0.00024	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0059	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S PUMP		
Lab Sample ID:	F81314-14	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049160.D	1	04/08/11	WV	n/a	n/a	GXY2094
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00069	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S PUMP		
Lab Sample ID:	F81314-14	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	4560	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	174	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3S PUMP		
Lab Sample ID:	F81314-14	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	270	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 0.50	0.50	mg/l	1	04/06/11 12:38	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	400	23	mg/l	1	04/15/11 12:14	DM	SM19 2340B
Nitrogen, Nitrate	6.5	0.20	mg/l	2	04/06/11 18:00	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	04/06/11 12:38	CC	EPA 300/SW846 9056A
Sulfate	156	4.0	mg/l	2	04/06/11 18:00	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	1.2	1.0	mg/l	1	04/14/11 21:27	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D PUMP		
Lab Sample ID:	F81314-15	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074909.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00033	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00060	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0011	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0478	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D PUMP		
Lab Sample ID:	F81314-15	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00089	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0487	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	0.00035	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0041	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0012	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D PUMP		
Lab Sample ID:	F81314-15	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049161.D	1	04/08/11	WV	n/a	n/a	GXY2094
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0132	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D PUMP		
Lab Sample ID:	F81314-15	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	492	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	77.2	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3D PUMP		
Lab Sample ID:	F81314-15	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	283	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 1.0	1.0	mg/l	2	04/06/11 12:55	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	338	23	mg/l	1	04/15/11 12:18	DM	SM19 2340B
Nitrogen, Nitrate	0.57	0.20	mg/l	2	04/06/11 12:55	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.20	0.20	mg/l	2	04/06/11 12:55	CC	EPA 300/SW846 9056A
Sulfate	229	10	mg/l	5	04/06/11 18:17	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	2.5	1.0	mg/l	1	04/14/11 21:42	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-16	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074910.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00041	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00075	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0014	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0580	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-16	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.0010	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0590	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	0.00035	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0050	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0016	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-16	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049162.D	1	04/08/11	WV	n/a	n/a	GXY2094
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0117	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-16	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	595	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	84.1	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	BLIND DUPLICATE		
Lab Sample ID:	F81314-16	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	273	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 1.0	1.0	mg/l	2	04/06/11 13:12	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	351	23	mg/l	1	04/15/11 12:31	DM	SM19 2340B
Nitrogen, Nitrate	0.45	0.20	mg/l	2	04/06/11 13:12	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.20	0.20	mg/l	2	04/06/11 13:12	CC	EPA 300/SW846 9056A
Sulfate	225	10	mg/l	5	04/06/11 18:34	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	2.5	1.0	mg/l	1	04/14/11 21:58	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F81314-17	**Date Sampled:**	04/04/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074911.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F81314-17	**Date Sampled:**	04/04/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F81314 PAGE 1 OF 2

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name: Foth Infrastructure + Environ
Address: 605 N Boonville
City: Springfield State: MO Zip: 65806
Project Contact: Rob Gamble E-mail: Rob.Gamble@Foth.com
Phone#: 417 864 6444
Sampler(s) Name(s) (Printed): David Ring, Spencer Brooks

Project Information

Project Name: Braintag
Street: 1520 Bramise
City: Wichita State: Kansas
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	8260B VOC	SW846
1	MW-1S bag MS MSDS	4/4/11	945	DR	GW	9			X							X	X
2	MW-1D bag	4/4/11	955	DR	GW	3			X							X	X
3	MW-2S bag	4/4/11	1015	DR	GW	3			X							X	X
4	MW-2D Bag	4/4/11	1025	DR	GW	3			X							X	X
5	MW-3S bag	4/4/11	1040	DR	GW	3			X							X	X
6	MW-3D Bag	4/4/11	1050	DR	GW	3			X							X	X
7	MW-4D Bag	4/4/11	1025	DR	GW	2			X							X	X
8	MW-5S Bag	4/4/11	1140	DR	GW	2			X							X	X
9	MW-5D Bag	4/4/11	1205	DR	GW	3			X							X	X
10	Blind Duplicate	4/4/11		DR	GW	3			X							X	X
11	MW-6S Bag	4/4/11	1210	DR	GW	3			X							X	X
12	MW-6D Bag	4/4/11	1215	DR	GW	3			X							X	X

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Fedex # 8731 0541 2842

Comments / Remarks

Invoice to Braintag
Prevail Bill

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	4/5/11 1600	2	3	04/6/11 0800	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 1.4

F81314: Chain of Custody
Page 1 of 3

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F81314 PAGE 2 OF 2

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Foth Infrastructure + Enviro
Address: 605 N Bronwilla
City: Springfield State: MO Zip: 65806
Project Contact: Kris Gamble E-mail: Kris.Gamble@Foth.com
Phone#: 417 864 6444
Sampler(s) Name(s) (Printed): David Ring

Project Information

Project Name: Brownfield
Street: 1520 Brown
City: Wichita State: KS
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	Na Water	MeOH	SW846 8260B VOC	Fe, Mn, Hardness	TOC	S	VRSK 147 DG MEE	SO4, NO3, Alk 300							
13	MW-4S Pump	4/4/11	1435	DR	GW	3			3							X	X	X	X	X	X							
14	MW-3S Pump	4/4/11	1530	DR												X	X	X	X	X	X							
15	MW-3D Pump	4/4/11	1625	DR												X	X	X	X	X	X							
16	Blind Duplicate	4/4/11		DR	GW											X	X	X	X	X	X							
17	~~MW~~ Trip Blank			LAB												X	~~X~~	~~X~~	~~X~~	~~X~~	(X)							

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Short Hold 48 Hour
Non Preserved 1 liter

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 David Ring	4/5/11 1600	2	3	04/06/11 9:00	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 1.4

F81314: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81314 CLIENT: FIE PROJECT: Brenntag

DATE/TIME RECEIVED: 040611 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8717 8705 1975

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [x] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Samp 7B, 1 (ms volume) only 2 vials received, Sample #15: No received extra set of (5x60) vials. no times on all bottles see coc for info Sample #13 didn't receive any bottles for metals, TOC, Sulfide, MEE, ∴ unpreserved VC analysis as requested on coc

TECHNICIAN SIGNATURE/DATE ET 040611 REVIEWER SIGNATURE/DATE JS 4-6-11

NF 12/10

receipt confirmation 122910.xls

F81314: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2022-MB	M0050057.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.61	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2022-MB	M0050057.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	76-127%
2037-26-5	Toluene-D8	98%	86-112%

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2022-MB	M0050057.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	84-120%

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-MB	B074895.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.61	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-MB	B074895.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	98%	86-112%

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-MB	B074895.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	84-120%

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2022-BS	M0050056.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	192	154*	59-134
71-43-2	Benzene	25	23.5	94	83-124
108-86-1	Bromobenzene	25	23.0	92	83-115
74-97-5	Bromochloromethane	25	22.0	88	78-112
75-27-4	Bromodichloromethane	25	23.8	95	76-116
75-25-2	Bromoform	25	21.7	87	68-128
104-51-8	n-Butylbenzene	25	24.8	99	84-124
135-98-8	sec-Butylbenzene	25	25.6	102	86-127
98-06-6	tert-Butylbenzene	25	26.3	105	83-126
108-90-7	Chlorobenzene	25	23.4	94	87-115
75-00-3	Chloroethane	25	26.5	106	54-166
67-66-3	Chloroform	25	24.0	96	85-123
95-49-8	o-Chlorotoluene	25	24.3	97	84-121
106-43-4	p-Chlorotoluene	25	25.4	102	84-120
75-15-0	Carbon disulfide	25	24.5	98	67-147
56-23-5	Carbon tetrachloride	25	23.9	96	74-139
75-34-3	1,1-Dichloroethane	25	24.4	98	82-127
75-35-4	1,1-Dichloroethylene	25	28.3	113	75-133
563-58-6	1,1-Dichloropropene	25	26.8	107	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	22.4	90	61-118
106-93-4	1,2-Dibromoethane	25	22.9	92	80-115
107-06-2	1,2-Dichloroethane	25	23.7	95	76-122
78-87-5	1,2-Dichloropropane	25	23.2	93	81-120
142-28-9	1,3-Dichloropropane	25	23.6	94	81-113
594-20-7	2,2-Dichloropropane	25	26.2	105	77-138
124-48-1	Dibromochloromethane	25	22.9	92	74-116
75-71-8	Dichlorodifluoromethane	25	22.1	88	34-158
156-59-2	cis-1,2-Dichloroethylene	25	22.8	91	81-114
10061-01-5	cis-1,3-Dichloropropene	25	23.9	96	83-119
541-73-1	m-Dichlorobenzene	25	24.4	98	86-115
95-50-1	o-Dichlorobenzene	25	23.8	95	85-115
106-46-7	p-Dichlorobenzene	25	24.1	96	87-113
156-60-5	trans-1,2-Dichloroethylene	25	24.3	97	82-126
540-59-0	1,2-Dichloroethene (total)	50	47.1	94	83-119
10061-02-6	trans-1,3-Dichloropropene	25	26.1	104	87-123
100-41-4	Ethylbenzene	25	24.3	97	87-118

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2022-BS	M0050056.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	113	90	58-125
87-68-3	Hexachlorobutadiene	25	25.1	100	71-133
98-82-8	Isopropylbenzene	25	26.9	108	87-131
99-87-6	p-Isopropyltoluene	25	25.9	104	83-125
108-10-1	4-Methyl-2-pentanone	125	109	87	62-125
74-83-9	Methyl bromide	25	27.6	110	55-151
74-87-3	Methyl chloride	25	30.1	120	55-173
74-95-3	Methylene bromide	25	23.3	93	81-116
75-09-2	Methylene chloride	25	30.7	123	69-125
78-93-3	Methyl ethyl ketone	125	123	98	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.5	94	75-116
91-20-3	Naphthalene	25	23.7	95	59-125
103-65-1	n-Propylbenzene	25	25.0	100	86-125
100-42-5	Styrene	25	22.9	92	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	23.5	94	81-119
71-55-6	1,1,1-Trichloroethane	25	24.9	100	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	22.7	91	71-120
79-00-5	1,1,2-Trichloroethane	25	23.2	93	80-114
87-61-6	1,2,3-Trichlorobenzene	25	23.8	95	64-126
96-18-4	1,2,3-Trichloropropane	25	23.8	95	77-115
120-82-1	1,2,4-Trichlorobenzene	25	23.9	96	68-123
95-63-6	1,2,4-Trimethylbenzene	25	23.9	96	82-120
108-67-8	1,3,5-Trimethylbenzene	25	23.3	93	83-123
127-18-4	Tetrachloroethylene	25	24.8	99	80-131
108-88-3	Toluene	25	23.6	94	86-116
79-01-6	Trichloroethylene	25	26.1	104	85-124
75-69-4	Trichlorofluoromethane	25	30.8	123	66-156
75-01-4	Vinyl chloride	25	23.5	94	57-153
1330-20-7	Xylene (total)	75	72.5	97	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	104%	76-127%
2037-26-5	Toluene-D8	100%	86-112%

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM2022-BS	M0050056.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	84-120%

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-BS	B074894.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	172	138*	59-134
71-43-2	Benzene	25	26.1	104	83-124
108-86-1	Bromobenzene	25	24.5	98	83-115
74-97-5	Bromochloromethane	25	24.4	98	78-112
75-27-4	Bromodichloromethane	25	25.9	104	76-116
75-25-2	Bromoform	25	21.1	84	68-128
104-51-8	n-Butylbenzene	25	26.2	105	84-124
135-98-8	sec-Butylbenzene	25	26.9	108	86-127
98-06-6	tert-Butylbenzene	25	29.6	118	83-126
108-90-7	Chlorobenzene	25	25.7	103	87-115
75-00-3	Chloroethane	25	25.7	103	54-166
67-66-3	Chloroform	25	25.2	101	85-123
95-49-8	o-Chlorotoluene	25	25.6	102	84-121
106-43-4	p-Chlorotoluene	25	26.2	105	84-120
75-15-0	Carbon disulfide	25	26.9	108	67-147
56-23-5	Carbon tetrachloride	25	27.0	108	74-139
75-34-3	1,1-Dichloroethane	25	26.4	106	82-127
75-35-4	1,1-Dichloroethylene	25	28.7	115	75-133
563-58-6	1,1-Dichloropropene	25	27.7	111	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	21.9	88	61-118
106-93-4	1,2-Dibromoethane	25	24.6	98	80-115
107-06-2	1,2-Dichloroethane	25	25.0	100	76-122
78-87-5	1,2-Dichloropropane	25	25.4	102	81-120
142-28-9	1,3-Dichloropropane	25	24.1	96	81-113
594-20-7	2,2-Dichloropropane	25	27.0	108	77-138
124-48-1	Dibromochloromethane	25	25.2	101	74-116
75-71-8	Dichlorodifluoromethane	25	25.8	103	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.9	104	83-119
541-73-1	m-Dichlorobenzene	25	25.3	101	86-115
95-50-1	o-Dichlorobenzene	25	24.9	100	85-115
106-46-7	p-Dichlorobenzene	25	24.9	100	87-113
156-60-5	trans-1,2-Dichloroethylene	25	26.5	106	82-126
540-59-0	1,2-Dichloroethene (total)	50	51.3	103	83-119
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	87-123
100-41-4	Ethylbenzene	25	25.6	102	87-118

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-BS	B074894.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	25.4	102	71-133
98-82-8	Isopropylbenzene	25	29.5	118	87-131
99-87-6	p-Isopropyltoluene	25	26.5	106	83-125
108-10-1	4-Methyl-2-pentanone	125	115	92	62-125
74-83-9	Methyl bromide	25	23.8	95	55-151
74-87-3	Methyl chloride	25	27.5	110	55-173
74-95-3	Methylene bromide	25	25.5	102	81-116
75-09-2	Methylene chloride	25	25.3	101	69-125
78-93-3	Methyl ethyl ketone	125	141	113	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	75-116
91-20-3	Naphthalene	25	23.6	94	59-125
103-65-1	n-Propylbenzene	25	26.4	106	86-125
100-42-5	Styrene	25	26.2	105	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.3	101	81-119
71-55-6	1,1,1-Trichloroethane	25	26.2	105	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.8	95	71-120
79-00-5	1,1,2-Trichloroethane	25	24.1	96	80-114
87-61-6	1,2,3-Trichlorobenzene	25	23.9	96	64-126
96-18-4	1,2,3-Trichloropropane	25	23.8	95	77-115
120-82-1	1,2,4-Trichlorobenzene	25	24.5	98	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.1	100	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.2	101	83-123
127-18-4	Tetrachloroethylene	25	26.6	106	80-131
108-88-3	Toluene	25	25.7	103	86-116
79-01-6	Trichloroethylene	25	26.4	106	85-124
75-69-4	Trichlorofluoromethane	25	30.8	123	66-156
75-01-4	Vinyl chloride	25	22.2	89	57-153
1330-20-7	Xylene (total)	75	77.5	103	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	99%	86-112%

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-BS	B074894.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-12MS	B074907.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12MSD	B074908.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Compound	F81314-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	113	90	91.7	73	21*	59-134/14
71-43-2	Benzene	0.28	J	25	31.8	126*	25.8	102	21*	83-124/11
108-86-1	Bromobenzene	ND		25	28.8	115	24.7	99	15*	83-115/10
74-97-5	Bromochloromethane	ND		25	28.8	115*	24.2	97	17*	78-112/10
75-27-4	Bromodichloromethane	ND		25	31.4	126*	26.0	104	19*	76-116/10
75-25-2	Bromoform	ND		25	25.7	103	21.1	84	20*	68-128/11
104-51-8	n-Butylbenzene	ND		25	30.9	124	25.8	103	18*	84-124/10
135-98-8	sec-Butylbenzene	ND		25	31.6	126	26.4	106	18*	86-127/10
98-06-6	tert-Butylbenzene	ND		25	34.5	138*	25.6	102	30*	83-126/10
108-90-7	Chlorobenzene	ND		25	30.0	120*	24.8	99	19*	87-115/9
75-00-3	Chloroethane	ND		25	29.4	118	25.1	100	16	54-166/20
67-66-3	Chloroform	0.35	J	25	30.6	121	25.2	99	19*	85-123/10
95-49-8	o-Chlorotoluene	ND		25	30.3	121	25.3	101	18*	84-121/10
106-43-4	p-Chlorotoluene	ND		25	30.7	123*	26.1	104	16*	84-120/10
75-15-0	Carbon disulfide	ND		25	32.0	128	25.4	102	23*	67-147/12
56-23-5	Carbon tetrachloride	ND		25	32.8	131	26.6	106	21*	74-139/13
75-34-3	1,1-Dichloroethane	0.64	J	25	32.4	127	27.0	105	18*	82-127/10
75-35-4	1,1-Dichloroethylene	1.2		25	37.3	144*	28.9	111	25*	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	33.5	134*	26.9	108	22*	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	26.9	108	22.4	90	18*	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	29.2	117*	24.1	96	19*	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	30.9	124*	25.6	102	19*	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	30.6	122*	25.2	101	19*	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	29.1	116*	23.8	95	20*	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	32.0	128	26.0	104	21*	77-138/12
124-48-1	Dibromochloromethane	ND		25	30.0	120*	24.9	100	19*	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	31.3	125	24.5	98	24*	34-158/22
156-59-2	cis-1,2-Dichloroethylene	48.3		25	90.3	168*	75.7	110	18*	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	30.8	123*	24.9	100	21*	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	29.8	119*	25.2	101	17*	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	29.3	117*	25.0	100	16*	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	29.3	117*	24.4	98	18*	87-113/10
156-60-5	trans-1,2-Dichloroethylene	0.77	J	25	32.9	129*	27.3	106	19*	82-126/10
540-59-0	1,2-Dichloroethene (total)	49.0		50	123	148*	103	108	18*	83-119/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	31.7	127*	25.9	104	20*	87-123/10
100-41-4	Ethylbenzene	ND		25	30.7	123*	25.2	101	20*	87-118/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-12MS	B074907.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12MSD	B074908.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Compound	F81314-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		125	131	105	105	84	22*	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	30.4	122	24.6	98	21*	71-133/12
98-82-8	Isopropylbenzene	ND		25	35.4	142*	29.4	118	19*	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	32.1	128*	26.4	106	19*	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	143	114	117	94	20*	62-125/13
74-83-9	Methyl bromide	ND		25	27.8	111	23.8	95	16	55-151/21
74-87-3	Methyl chloride	ND		25	32.5	130	27.3	109	17	55-173/22
74-95-3	Methylene bromide	ND		25	30.9	124*	25.9	104	18*	81-116/10
75-09-2	Methylene chloride	ND		25	30.7	123	25.3	101	19*	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	128	102	107	86	18*	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	28.6	114	23.6	94	19*	75-116/10
91-20-3	Naphthalene	ND		25	27.1	108	22.9	92	17*	59-125/15
103-65-1	n-Propylbenzene	ND		25	31.5	126*	26.7	107	16*	86-125/10
100-42-5	Styrene	ND		25	30.6	122*	25.4	102	19*	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	30.2	121*	25.2	101	18*	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	31.5	126	26.0	104	19*	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	28.5	114	24.2	97	16*	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	29.7	119*	23.6	94	23*	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	27.6	110	23.2	93	17*	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	28.7	115	24.0	96	18*	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	28.8	115	24.2	97	17*	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	29.9	120	25.3	101	17*	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	29.5	118	24.7	99	18*	83-123/10
127-18-4	Tetrachloroethylene	0.72	J	25	32.2	126	26.6	104	19*	80-131/12
108-88-3	Toluene	0.24	J	25	30.4	121*	25.1	99	19*	86-116/10
79-01-6	Trichloroethylene	10.8		25	44.5	135*	36.3	102	20*	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	38.2	153	31.0	124	21*	66-156/15
75-01-4	Vinyl chloride	1.5		25	27.4	104	22.7	85	19	57-153/22
1330-20-7	Xylene (total)	ND		75	93.1	124*	76.7	102	19*	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F81314-12	Limits
1868-53-7	Dibromofluoromethane	103%	103%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	105%	106%	76-127%
2037-26-5	Toluene-D8	99%	100%	100%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-12MS	B074907.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12MSD	B074908.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-11, F81314-12, F81314-13, F81314-14, F81314-15, F81314-16, F81314-17

CAS No.	Surrogate Recoveries	MS	MSD	F81314-12	Limits
460-00-4	4-Bromofluorobenzene	99%	101%	98%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-1MS	M0050078.D	1	04/15/11	NMC	n/a	n/a	VM2022
F81314-1MSD	M0050079.D	1	04/15/11	NMC	n/a	n/a	VM2022
F81314-1	M0050058.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Compound	F81314-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	112	90	110	88	2	59-134/14
71-43-2	Benzene	ND		25	25.5	102	25.0	100	2	83-124/11
108-86-1	Bromobenzene	ND		25	24.0	96	24.3	97	1	83-115/10
74-97-5	Bromochloromethane	ND		25	23.5	94	23.9	96	2	78-112/10
75-27-4	Bromodichloromethane	ND		25	25.8	103	25.4	102	2	76-116/10
75-25-2	Bromoform	ND		25	22.4	90	21.6	86	4	68-128/11
104-51-8	n-Butylbenzene	ND		25	25.3	101	25.0	100	1	84-124/10
135-98-8	sec-Butylbenzene	ND		25	26.9	108	26.6	106	1	86-127/10
98-06-6	tert-Butylbenzene	ND		25	28.2	113	27.9	112	1	83-126/10
108-90-7	Chlorobenzene	ND		25	24.9	100	24.4	98	2	87-115/9
75-00-3	Chloroethane	ND		25	26.6	106	27.3	109	3	54-166/20
67-66-3	Chloroform	ND		25	25.9	104	25.6	102	1	85-123/10
95-49-8	o-Chlorotoluene	ND		25	25.7	103	26.0	104	1	84-121/10
106-43-4	p-Chlorotoluene	ND		25	27.3	109	27.2	109	0	84-120/10
75-15-0	Carbon disulfide	ND		25	27.1	108	26.2	105	3	67-147/12
56-23-5	Carbon tetrachloride	ND		25	25.6	102	24.4	98	5	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	25.9	104	25.1	100	3	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	31.0	124	30.4	122	2	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	28.8	115	27.8	111	4	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.6	102	25.0	100	2	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	25.1	100	24.9	100	1	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	26.1	104	25.9	104	1	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	24.8	99	24.4	98	2	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	25.7	103	25.4	102	1	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	23.8	95	22.9	92	4	77-138/12
124-48-1	Dibromochloromethane	ND		25	24.1	96	24.3	97	1	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	21.5	86	20.6	82	4	34-158/22
156-59-2	cis-1,2-Dichloroethylene	3.2		25	28.2	100	27.6	98	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.9	100	25.4	102	2	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	25.2	101	25.0	100	1	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	24.6	98	25.0	100	2	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	25.3	101	25.1	100	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.0	96	22.5	90	6	82-126/10
540-59-0	1,2-Dichloroethene (total)	3.2		50	52.2	98	50.1	94	4	83-119/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.5	110	27.2	109	1	87-123/10
100-41-4	Ethylbenzene	ND		25	25.6	102	25.3	101	1	87-118/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-1MS	M0050078.D	1	04/15/11	NMC	n/a	n/a	VM2022
F81314-1MSD	M0050079.D	1	04/15/11	NMC	n/a	n/a	VM2022
F81314-1	M0050058.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Compound	F81314-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		125	116	93	113	90	3	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	23.6	94	23.7	95	0	71-133/12
98-82-8	Isopropylbenzene	ND		25	28.0	112	27.3	109	3	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	26.8	107	26.2	105	2	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	125	100	123	98	2	62-125/13
74-83-9	Methyl bromide	ND		25	25.7	103	26.9	108	5	55-151/21
74-87-3	Methyl chloride	ND		25	30.0	120	29.8	119	1	55-173/22
74-95-3	Methylene bromide	ND		25	26.0	104	26.1	104	0	81-116/10
75-09-2	Methylene chloride	ND		25	29.1	116	29.0	116	0	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	118	94	113	90	4	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.7	99	24.3	97	2	75-116/10
91-20-3	Naphthalene	ND		25	24.3	97	25.1	100	3	59-125/15
103-65-1	n-Propylbenzene	ND		25	26.6	106	26.3	105	1	86-125/10
100-42-5	Styrene	ND		25	22.3	89	21.9	88	2	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	24.3	97	24.4	98	0	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	26.8	107	25.8	103	4	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.6	106	26.4	106	1	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	25.4	102	25.1	100	1	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	23.8	95	24.4	98	2	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	26.0	104	26.4	106	2	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	23.3	93	24.1	96	3	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.8	99	25.0	100	1	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	24.5	98	24.8	99	1	83-123/10
127-18-4	Tetrachloroethylene	ND		25	25.3	101	24.9	100	2	80-131/12
108-88-3	Toluene	ND		25	24.6	98	24.7	99	0	86-116/10
79-01-6	Trichloroethylene	1.1		25	28.2	108	27.8	107	1	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	30.7	123	30.5	122	1	66-156/15
75-01-4	Vinyl chloride	ND		25	22.2	89	22.4	90	1	57-153/22
1330-20-7	Xylene (total)	ND		75	76.2	102	75.9	101	0	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F81314-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	110%	107%	103%	76-127%
2037-26-5	Toluene-D8	101%	101%	98%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-1MS	M0050078.D	1	04/15/11	NMC	n/a	n/a	VM2022
F81314-1MSD	M0050079.D	1	04/15/11	NMC	n/a	n/a	VM2022
F81314-1	M0050058.D	1	04/15/11	NMC	n/a	n/a	VM2022

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81314-1, F81314-2, F81314-3, F81314-4, F81314-5, F81314-6, F81314-7, F81314-8, F81314-9, F81314-10

CAS No.	Surrogate Recoveries	MS	MSD	F81314-1	Limits
460-00-4	4-Bromofluorobenzene	106%	101%	103%	84-120%

Southeast

ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2094-MB	XY049146.D	1	04/08/11	WV	n/a	n/a	GXY2094

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81314-14, F81314-15, F81314-16

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Blank Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2094-BS	XY049147.D	1	04/08/11	WV	n/a	n/a	GXY2094

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81314-14, F81314-15, F81314-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	103	95	54-149
74-84-0	Ethane	219	211	96	57-143
74-85-1	Ethene	290	278	96	57-143

Matrix Spike Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T72521-1MS	XY049158.D	1	04/08/11	WV	n/a	n/a	GXY2094
T72521-1	XY049150.D	1	04/08/11	WV	n/a	n/a	GXY2094

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81314-14, F81314-15, F81314-16

CAS No.	Compound	T72521-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	736		108	781	42* [a]	54-149
74-84-0	Ethane	0.26		219	223	102	57-143
74-85-1	Ethene	ND		290	295	102	57-143

(a) Outside control limits due to high level in sample relative to spike amount.

Duplicate Summary

Job Number: F81314
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81197-3DUP	XY049149.D	10	04/08/11	WV	n/a	n/a	GXY2094
F81197-3	XY049148.D	10	04/08/11	WV	n/a	n/a	GXY2094

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81314-14, F81314-15, F81314-16

CAS No.	Compound	F81197-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	7070		6800		4	24
74-84-0	Ethane	255		248		3	23
74-85-1	Ethene	346		337		3	10

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100		
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	0.0	<300
Lead	5.0	1	1		
Magnesium	5000	50	100		
Manganese	15	1	1	0.20	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20376: F81314-14, F81314-15, F81314-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/15/11					04/15/11	
Metal	F81451-1 Original	DUP	RPD	QC Limits	F81451-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	anr								
Iron	6380	6660	4.3	0-20	6380	32300	26000	99.7	80-120
Lead	anr								
Magnesium	anr								
Manganese	35.8	36.2	1.1	0-20	35.8	562	500	105.2	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP20376: F81314-14, F81314-15, F81314-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	F81451-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt						
Copper	anr					
Iron	6380	30300	26000	92.0	6.4	20
Lead	anr					
Magnesium	anr					
Manganese	35.8	532	500	99.2	5.5	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver						
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP20376: F81314-14, F81314-15, F81314-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	26000	26000	100.0	80-120
Lead	anr			
Magnesium	anr			
Manganese	560	500	112.0	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP20376: F81314-14, F81314-15, F81314-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	F81451-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	6380	6680	4.7	0-10
Lead	anr			
Magnesium	anr			
Manganese	35.8	37.0	3.4	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP20376: F81314-14, F81314-15, F81314-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	Sample ml	Final ml	F81451-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	6380	6252.4	9492	0.2	150	3000	108.0	80-120
Lead										
Magnesium										
Manganese	9.8	10	35.8	35.084	86.2	0.2	2.5	50	102.2	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20376: F81314-14, F81314-15, F81314-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44012	5.0	0.0	mg/l	250	248	99.2	90-113%
Bromide	GP16764/GN43999	0.50	0.0	mg/l	12.5	13.1	104.8	90-110%
Chloride	GP16764/GN43999	2.0	0.0	mg/l	50	52.2	104.4	90-110%
Nitrogen, Nitrate	GP16764/GN43999	0.10	0.0	mg/l	2.5	2.44	97.6	90-110%
Nitrogen, Nitrite	GP16764/GN43999	0.10	0.0	mg/l	2.5	2.63	105.2	90-110%
Sulfate	GP16764/GN43999	2.0	0.0	mg/l	50	53.1	106.2	90-110%
Sulfide	GN44072	1.0	0.0	mg/l	13.4	11.5	85.7	76-112%
Total Organic Carbon	GP16823/GN44148	1.0	0.0	mg/l	15	14.9	99.3	90-110%

Associated Samples:
Batch GN44012: F81314-14, F81314-15, F81314-16
Batch GN44072: F81314-14, F81314-15, F81314-16
Batch GP16764: F81314-14, F81314-15, F81314-16
Batch GP16823: F81314-14, F81314-15, F81314-16
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44012	F81302-7	mg/l	87.4	91.6	4.7	0-20%
Bromide	GP16764/GN43999	F81302-8	mg/l	0.25 U	0.0	0.0	0-20%
Chloride	GP16764/GN43999	F81302-8	mg/l	31.7	31.7	0.0	0-20%
Nitrogen, Nitrate	GP16764/GN43999	F81302-8	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrite	GP16764/GN43999	F81302-8	mg/l	0.050 U	0.0	0.0	0-20%
Sulfate	GP16764/GN43999	F81302-8	mg/l	1.0 U	0.0	0.0	0-20%
Sulfide	GN44072	F81333-1	mg/l	0.60 U	0.0	0.0	0-34%
Total Organic Carbon	GP16823/GN44148	F81268-16	mg/l	1.5	1.5	0.0	0-20%

Associated Samples:
Batch GN44012: F81314-14, F81314-15, F81314-16
Batch GN44072: F81314-14, F81314-15, F81314-16
Batch GP16764: F81314-14, F81314-15, F81314-16
Batch GP16823: F81314-14, F81314-15, F81314-16
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44012	F81302-7	mg/l	87.4	250	335	99.0	90-113%
Bromide	GP16764/GN43999	F81302-8	mg/l	0.25 U	12.5	16.3	130.4N(a)	90-110%
Chloride	GP16764/GN43999	F81302-8	mg/l	31.7	50	86.1	108.8	90-110%
Nitrogen, Nitrate	GP16764/GN43999	F81302-8	mg/l	0.050 U	2.5	2.8	112.0N(a)	90-110%
Nitrogen, Nitrite	GP16764/GN43999	F81302-8	mg/l	0.050 U	2.5	3.0	120.0N(a)	90-110%
Sulfate	GP16764/GN43999	F81302-8	mg/l	1.0 U	50	57.3	114.6N(a)	90-110%
Sulfide	GN44072	F81333-1	mg/l	0.60 U	9.94	8.9	88.5	76-112%
Total Organic Carbon	GP16823/GN44148	F81268-16	mg/l	1.5	15	16.5	100.0	90-110%

Associated Samples:
Batch GN44012: F81314-14, F81314-15, F81314-16
Batch GN44072: F81314-14, F81314-15, F81314-16
Batch GP16764: F81314-14, F81314-15, F81314-16
Batch GP16823: F81314-14, F81314-15, F81314-16
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81314
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN44012	F81302-7	mg/l	87.4	250	331	1.2	20%

Associated Samples:
Batch GN44012: F81314-14, F81314-15, F81314-16
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

7.4
7

Foth Infrastructure & Environment, LLC

PROJECT IDENTIFICATION

Project Name: Brenntag, 1520 N. Barwise – Wichita, KS

Laboratory: Accutest Laboratories – Orlando, FL

Laboratory Project ID (SDG): F81314

Sample Collection Dates: 04/04/2011

Sample Analysis Dates: 04/06/2011 – 04/15/2011

Sample Matrix: Ground water

Analytical Fractions: ☒ VOC ☐ SVOC ☐ PEST/PCB ☐ TPH
☒ METALS ☒ ANIONS ☐ CATIONS ☒ WET CHEM

Sample IDs Reviewed: See attached list

Verification and Validation Stage: ☐ 1 ☒ 2A ☐ 2B ☐ 3 ☐ 4

Verified and Validated By: T. Scott Barton, Lead Env Scientist — T. Scott Barton 4/25/2011
Name, Title — Signature, Date

SUMMARY

Item #	Review Item	Reported		Acceptable		Review Tasks
		Yes	No	Yes	No	
1.	Chain of Custody and Sample Receipt Form	Y		Y		Confirm relinquish & receipt signatures. Confirm parameters and analytical methods in SRF match COC which match SAP.
2.	Case Narrative	Y		Y		Review for items noted by the laboratory.
3.	Sample Condition Upon Receipt	Y		Y		Confirm samples in acceptable condition and no discrepancies noted. Preservation (temperature <6 degrees C, pH, etc)
4.	Methods Requested	Y		Y		Confirm the following: 1. Analyses ordered match workplan. 2. Lab provided all methods ordered.
5.	Analytes Requested	Y		Y		Confirm the following: 1. Analytes ordered match workplan. 2. Lab provided all analytes ordered.
6.	Holding Times	Y		Y		Confirm laboratory performed extractions and analyses within method-required holding times.
7.	Blanks	Y		Y		Confirm the following: 1. No detections in laboratory (method) blanks. 2. No detections in trip blanks (*VOCs only*). 3. No detections in equipment blanks. 4. Equipment/Trip blanks collected at workplan-required frequency.
8.	Surrogates	Y		Y		Confirm the following (*organic analyses only*): 1. Surrogates analyzed. 2. Surrogate recovery within QC limits.

Item #	Review Item	Reported		Acceptable		Review Tasks
		Yes	No	Yes	No	
9.	MS/MSDs	Y		Y		Confirm the following: 1. MS/MSDs at frequency specified in workplan. 2. MS percent recovery within lab specified limits. 3. Organic MSD relative percent difference (RPD) within limits. 4. Inorganic lab replicate RPD within limits.
10.	Field Duplicates	Y		Y		Confirm the following: 1. Field duplicates collected at required frequency. 2. Field duplicate RPD within acceptable limits.
11.	LCS/LCSDs	NA		NA		Confirm the following (*low-level water analyses only*): 1. LCS analyzed. 2. LCS/LCSD recovery within lab specified limits.
12.	Initial Calibrations	NA		NA		Confirm the following for project compounds and system monitoring compounds: 1. RRFs greater than or equal to 0.05. 2. %RSD from initial calibration less than 30%. If R^2 values are reported instead, R^2 must be > 0.990.
13.	Continuing Calibrations	NA		NA		Confirm the following for project compounds and system monitoring compounds: 1. RRF greater than 0.05. 2. %D less than 25%.
14.	Instrument Tuning	NA		NA		Confirm % relative abundance are within ion abundance criteria.
15.	Internal Standards	NA		NA		Confirm that retention times (RT) of samples are consistent with RT of the standards, within the upper and lower limits.

COMMENTS AND REQUIRED ACTIONS Comments are provided for any items that need additional explanation (referenced by item number above).

9. The RPD for F81314-12MS / F81314-12MSD exceeded control limits for the following compounds:

Compound	RPD Exceedance
Benzene	21% > 11%
Chloroform	19% > 10%
1,1-Dichloroethane	18% > 10%
1,1-Dichloroethene	25% > 13%
cis-1,2-Dichloroethene	18% > 10%
trans-1,2-Dichloroethene	19% > 10%
1,2-Dichloroethene (total)	18% > 10%
Tetrachloroethene	19% > 12%
Toluene	19% > 10%
Trichloroethene	20% > 10%

The following compounds are J-flagged as estimated values in the parent sample (F81314-12): benzene, chloroform, 1,1-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and toluene. The following parent sample (F81314-12) results are qualified due to RPD greater than the upper aeceptance limit in the associated MS/MSD:

Compound	Result (µg/L)	Qualifier
1,1-Dichloroethene	0.0012	J
cis-1,2-Dichloroethene	0.0483	J
1,2-Dichloroethene (total)	0.0490	J
Trichloroethene	0.0108	J

10. The following parent and duplicate samples were collected:

Parent Sample / Lab Sample ID	Duplicate Sample / Lab Sample ID
MW-5D BAG / F81314-9	BLIND DUPLICATE / F81314-10
MW-3D PUMP / F81314-15	BLIND DUPLICATE / F81314-16

All parent/duplicate sample results were of acceptable precision.

OVERALL ASSESSMENT OF DATA

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	Y		
2. Precision	Y		
3. Accuracy	Y		
4. Representativeness	Y		
5. Comparability	Y		
6. Completeness	Y		
7. Suitability for Intended Use	Y		

Sample Summary

Geotechnical Services Inc

Brenntag, Wichita, KS

Job No: F81314

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F81314-1	04/04/11	09:45 DR	04/06/11	AQ	Ground Water	MW-1S BAG
F81314-1D	04/04/11	09:45 DR	04/06/11	AQ	Water Dup/MSD	MW-1S BAG
F81314-1S	04/04/11	09:45 DR	04/06/11	AQ	Water Matrix Spike	MW-1S BAG
F81314-2	04/04/11	09:55 DR	04/06/11	AQ	Ground Water	MW-1D BAG
F81314-3	04/04/11	10:15 DR	04/06/11	AQ	Ground Water	MW-2S BAG
F81314-4	04/04/11	10:25 DR	04/06/11	AQ	Ground Water	MW-2D BAG
F81314-5	04/04/11	10:40 DR	04/06/11	AQ	Ground Water	MW-3S BAG
F81314-6	04/04/11	10:50 DR	04/06/11	AQ	Ground Water	MW-3D BAG
F81314-7	04/04/11	11:25 DR	04/06/11	AQ	Ground Water	MW-4D BAG
F81314-8	04/04/11	11:40 DR	04/06/11	AQ	Ground Water	MW-5S BAG
F81314-9	04/04/11	12:05 DR	04/06/11	AQ	Ground Water	MW-5D BAG
F81314-10	04/04/11	00:00 DR	04/06/11	AQ	Ground Water	BLIND DUPLICATE
F81314-11	04/04/11	12:10 DR	04/06/11	AQ	Ground Water	MW-6S BAG

Sample Summary
(continued)

Geotechnical Services Inc

Brenntag, Wichita, KS

Job No: F81314

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F81314-12	04/04/11	12:15 DR	04/06/11	AQ	Ground Water	MW-6D BAG
F81314-13	04/04/11	14:35 DR	04/06/11	AQ	Ground Water	MW-4S PUMP
F81314-14	04/04/11	15:30 DR	04/06/11	AQ	Ground Water	MW-3S PUMP
F81314-15	04/04/11	16:25 DR	04/06/11	AQ	Ground Water	MW-3D PUMP
F81314-16	04/04/11	00:00 DR	04/06/11	AQ	Ground Water	BLIND DUPLICATE
F81314-17	04/04/11	00:00 DR	04/06/11	AQ	Trip Blank Water	TRIP BLANK

RPD Analysis
Analytical Report F81314
Brenntag, Wichita, KS

Relative Percent Difference ("RPD") Analysis for Field Duplicate Samples

RPD = $\frac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$

Acceptance Criteria*: 35%
(typically 35% for water samples, 50% for soil)

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates relative percent difference ("RPD") is as follows:

- For analytes with concentrations greater than 5x the reporting limit, the RPD should be within 35% for water matrices and 50% for soil matrices.
- For analytes with either or both concentrations less than 5x the reporting limit (indicated below by "low-level"), duplicate concentrations should agree within 5x the reporting limit.

Duplicate Result Analysis

Analyte	Parent Sample Result	Duplicate Sample Result	RPD	Acceptable?
	MW-5D BAG (F81314-9)	BLIND DUPLICATE (F81314-10)		
Bromochloromethane	0.0015	0.0014	low-level	Yes
Bromoform	0.00043	0.00038	low-level	Yes
Chloroform	0.0013	0.0012	low-level	Yes
1,1-Dichloroethane	0.00044	0.00051	low-level	Yes
1,1-Dichloroethene	0.0013	0.0014	low-level	Yes
Dibromochloromethane	0.0016	0.0015	low-level	Yes
cis-1,2-Dichloroethene	0.0351	0.0389	10.3%	Yes
trans-1,2-Dichloroethene	0.00059	0.00062	low-level	Yes
1,2-Dichloroethene (total)	0.0357	0.0395	10.1%	Yes
Tetrachloroethene	0.00066	0.00059	low-level	Yes
Toluene	0.00026	0.00025	low-level	Yes
Trichloroethene	0.0126	0.0133	5.4%	Yes
Vinyl chloride	0.001	0.0011	low-level	Yes

RPD Analysis
Analytical Report F81314
Brenntag, Wichita, KS

Relative Percent Difference ("RPD") Analysis for Field Duplicate Samples

RPD =

$$\frac{\text{absolute value } (a - b)}{(a + b)/2} \times 100\%$$

Acceptance Criteria*: 35%
(typically 35% for water samples, 50% for soil)

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates relative percent difference ("RPD") is as follows:

- For analytes with concentrations greater than 5x the reporting limit, the RPD should be within 35% for water matrices and 50% for soil matrices.
- For analytes with either or both concentrations less than 5x the reporting limit (indicated below by "low-level"), duplicate concentrations should agree within 5x the reporting limit.

Duplicate Result Analysis

Analyte	Parent Sample Result	Duplicate Sample Result	RPD	Acceptable?
	MW-3D PUMP (F81314-15)	BLIND DUPLICATE (F81314-16)		
Benzene	0.00033	0.00041	low-level	Yes
1,1-Dichloroethane	0.0006	0.00075	low-level	Yes
1,1-Dichloroethene	0.0011	0.0014	low-level	Yes
cis-1,2-Dichloroethene	0.0478	0.058	4.8%	Yes
trans-1,2-Dichloroethene	0.00089	0.001	low-level	Yes
1,2-Dichloroethene (total)	0.0487	0.059	4.8%	Yes
Toluene	0.00035	0.00035	low-level	Yes
Trichloroethene	0.0041	0.005	4.9%	Yes
Vinyl chloride	0.0012	0.0016	low-level	Yes
Methane	0.0132	0.0117	3.0%	Yes
Iron	492	595	4.7%	Yes
Manganese	77.2	84.1	2.1%	Yes
Alkalinity, Total as CaCO3	283	273	0.9%	Yes
Hardness, Total as CaCO3	338	351	0.9%	Yes
Nitrogen, Nitrate	0.57	0.45	5.9%	Yes
Sulfate	229	225	0.4%	Yes
Total organic carbon	2.5	2.5	0.0%	Yes

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D BAG		
Lab Sample ID:	F81314-12	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00028	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	0.00035	0.0010	0.00022	mg/l	J
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00064	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0012	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0483	0.0010	0.00026	mg/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D BAG		
Lab Sample ID:	F81314-12	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00077	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0490	0.0020	0.00061	mg/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00072	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00024	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0108	0.0010	0.00026	mg/l	J
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0015	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

04/19/11

Technical Report for

Geotechnical Services Inc

Brenntag, Wichita, KS

Accutest Job Number: F81315

Sampling Date: 04/04/11

Report to:

GSI
4503 E 47th St S
Wichita, KS 67210
dring@gsinetwork.com; kris.gamble@foth.com

ATTN: David Ring

Total number of pages in report: **59**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Geotechnical Services Inc

Brenntag, Wichita, KS

Job No: F81315

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F81315-1	04/04/11	17:20	DR	04/06/11	AQ	Ground Water	MW-5S PUMP
F81315-2	04/04/11	17:50	DR	04/06/11	AQ	Ground Water	MW-5D PUMP
F81315-3	04/04/11	18:30	DR	04/06/11	AQ	Ground Water	MW-6S PUMP
F81315-4	04/04/11	19:00	DR	04/06/11	AQ	Ground Water	MW-6D PUMP
F81315-5	04/04/11	00:00	DR	04/06/11	AQ	Trip Blank Water	TRIP BLANK
F81315-6	04/04/11	16:45	DR	04/06/11	AQ	Equipment Blank	EQUIPMENT BLANK

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S PUMP		
Lab Sample ID:	F81315-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074912.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00037	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00057	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0189	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S PUMP		
Lab Sample ID:	F81315-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00059	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0195	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0361	0.0010	0.00025	mg/l	
108-88-3	Toluene	0.00022	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0225	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.00042	0.0010	0.00022	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S PUMP		
Lab Sample ID:	F81315-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049208.D	1	04/12/11	WV	n/a	n/a	GXY2096
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00087	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S PUMP		
Lab Sample ID:	F81315-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	135000	1000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Iron	6880	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	22800	5000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	619	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5S PUMP		
Lab Sample ID:	F81315-1	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	299	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 1.0	1.0	mg/l	2	04/06/11 13:29	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	431	23	mg/l	1	04/15/11 12:35	DM	SM19 2340B
Nitrogen, Nitrate	8.3	0.20	mg/l	2	04/06/11 13:29	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.20	0.20	mg/l	2	04/06/11 13:29	CC	EPA 300/SW846 9056A
Sulfate	176	4.0	mg/l	2	04/06/11 13:29	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	2.0	1.0	mg/l	1	04/14/11 22:13	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D PUMP		
Lab Sample ID:	F81315-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074913.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00025	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.0011	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	0.0025	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0824	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D PUMP		
Lab Sample ID:	F81315-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.0013	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0838	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00037	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00055	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0173	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0023	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D PUMP		
Lab Sample ID:	F81315-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049209.D	1	04/12/11	WV	n/a	n/a	GXY2096
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.00631	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D PUMP		
Lab Sample ID:	F81315-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	123000	1000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Iron	3420	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	24200	5000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	161	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-5D PUMP		
Lab Sample ID:	F81315-2	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	341	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 1.0	1.0	mg/l	2	04/06/11 13:46	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	407	23	mg/l	1	04/15/11 12:39	DM	SM19 2340B
Nitrogen, Nitrate	0.33	0.20	mg/l	2	04/06/11 13:46	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.20	0.20	mg/l	2	04/06/11 13:46	CC	EPA 300/SW846 9056A
Sulfate	186	4.0	mg/l	2	04/06/11 13:46	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	2.3	1.0	mg/l	1	04/14/11 22:31	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S PUMP		
Lab Sample ID:	F81315-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074914.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00035	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00042	0.0010	0.00023	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0291	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S PUMP		
Lab Sample ID:	F81315-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00040	0.0010	0.00035	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0295	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.0266	0.0010	0.00025	mg/l	
108-88-3	Toluene	0.00031	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0134	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0027	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S PUMP		
Lab Sample ID:	F81315-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049210.D	1	04/12/11	WV	n/a	n/a	GXY2096
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.375	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	0.0017	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S PUMP		
Lab Sample ID:	F81315-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	125000	1000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Iron	39500	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	23700	5000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	1120	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6S PUMP		
Lab Sample ID:	F81315-3	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	342	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 1.0	1.0	mg/l	2	04/06/11 14:37	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	410	23	mg/l	1	04/15/11 12:44	DM	SM19 2340B
Nitrogen, Nitrate	0.84	0.20	mg/l	2	04/06/11 14:37	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.20	0.20	mg/l	2	04/06/11 14:37	CC	EPA 300/SW846 9056A
Sulfate	155	4.0	mg/l	2	04/06/11 14:37	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	3.2	1.0	mg/l	1	04/14/11 22:47	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D PUMP		
Lab Sample ID:	F81315-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074915.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	0.00030	0.0010	0.00020	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	0.00087	0.0010	0.00025	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0017	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0655	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D PUMP		
Lab Sample ID:	F81315-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.0011	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0666	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	0.00084	0.0010	0.00025	mg/l	J
108-88-3	Toluene	0.00026	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	0.0140	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0019	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D PUMP		
Lab Sample ID:	F81315-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY049211.D	1	04/12/11	WV	n/a	n/a	GXY2096
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0106	0.00050	0.00016	mg/l	
74-84-0	Ethane	ND	0.0010	0.00032	mg/l	
74-85-1	Ethene	ND	0.0010	0.00043	mg/l	

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D PUMP		
Lab Sample ID:	F81315-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	124000	1000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Iron	2330	300	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Magnesium	23600	5000	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]
Manganese	213	15	ug/l	1	04/15/11	04/15/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA8872
(2) Prep QC Batch: MP20376

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-6D PUMP		
Lab Sample ID:	F81315-4	**Date Sampled:**	04/04/11
Matrix:	AQ - Ground Water	**Date Received:**	04/06/11
		Percent Solids:	n/a
Project:	Brenntag, Wichita, KS		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	311	5.0	mg/l	1	04/07/11	CC	SM19 2320B
Bromide	< 1.0	1.0	mg/l	2	04/06/11 14:54	CC	EPA 300/SW846 9056A
Hardness, Total as CaCO3 [a]	407	23	mg/l	1	04/15/11 12:48	DM	SM19 2340B
Nitrogen, Nitrate	< 0.20	0.20	mg/l	2	04/06/11 14:54	CC	EPA 300/SW846 9056A
Nitrogen, Nitrite	< 0.20	0.20	mg/l	2	04/06/11 14:54	CC	EPA 300/SW846 9056A
Sulfate	212	10	mg/l	5	04/06/11 18:51	CC	EPA 300/SW846 9056A
Sulfide [b]	< 1.0	1.0	mg/l	1	04/12/11	TC	SM20 4500S F
Total Organic Carbon	2.0	1.0	mg/l	1	04/14/11 23:34	AR	SM19 5310B/SW 9060A

(a) Calculated as: (Calcium * 2.497) + (Magnesium * 4.118)
(b) Exceeded holding time.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F81315-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B074916.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F81315-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F81315-5	**Date Sampled:**	04/04/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F81315-6	**Date Sampled:**	04/04/11
Matrix:	AQ - Equipment Blank	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B074917.D	1	04/15/11	AJ	n/a	n/a	VB3081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00025	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00022	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00020	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00020	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00026	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00022	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00027	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00022	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00022	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00020	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00050	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00025	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00025	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00023	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00050	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00037	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00020	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00025	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00020	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00044	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00020	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00026	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00025	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00023	mg/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F81315-6	**Date Sampled:**	04/04/11
Matrix:	AQ - Equipment Blank	**Date Received:**	04/06/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00035	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00061	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00020	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00020	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0040	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00080	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00021	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0020	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00050	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00025	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0020	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00034	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00020	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00020	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00023	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00022	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00030	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00027	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00021	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00025	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00026	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00022	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F81315 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Foth Infrastructure + Enviro
Address: 605 N Bromville
City: Springfield State: MO Zip: 65806
Project Contact: Kris Gamble E-mail: kris.Gamble@foth.com
Phone#: 417 864 6444
Sampler(s) Name(s) (Printed): Dave Ring

Project Information

Project Name: Brantag
Street: 1520 Barwise
City: Wichita State: KS
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	HNO3	H2SO4	NaOH-ZnAc	DI WATER	NaOH	SW8260B VOC	Fe, Mn, Hard	TDC	TS	VOA (47 DGMEE)	SO4, NO3, NO2, Alk, BRO					
1	MW-5S Pump	4/4/11	1720	DR	GW										X	X	X	X	X	X					
2	MW-5D Pump	4/4/11	1750	DR	GW										X	X	X	X	X	X					
3	MW-6S Pump	4/4/11	1830	DR	GW										X	X	X	X	X	X					
4	MW-6D Pump	4/4/11	1900	DR	GW										X	X	X	X	X	X					
5	Trip Blank			LAB		2									X										
6	Equipment Blank	4/4/11	1645	DR	GW	3			3						X										

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Short Hold 48 Hour
None Preserve 1 liter

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	4/5/11 1600	2	3	04/06/11 1400	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2-8

F81315: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F81315 CLIENT: FIE PROJECT: Brenntag

DATE/TIME RECEIVED: 04.06.11 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8717 8705 1864

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Sample #1-4 received extra set of (8260) vials, no times on all bottles see coc for info

TECHNICIAN SIGNATURE/DATE ET 040611 REVIEWER SIGNATURE/DATE JC 4-6-11

NF 12/10

receipt confirmation 122910.xls

F81315: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-MB	B074895.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.25	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.26	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.22	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.27	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.22	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.44	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.61	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-MB	B074895.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.80	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.21	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.27	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.21	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	98%	86-112%

Method Blank Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-MB	B074895.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	84-120%

Blank Spike Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-BS	B074894.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	172	138*	59-134
71-43-2	Benzene	25	26.1	104	83-124
108-86-1	Bromobenzene	25	24.5	98	83-115
74-97-5	Bromochloromethane	25	24.4	98	78-112
75-27-4	Bromodichloromethane	25	25.9	104	76-116
75-25-2	Bromoform	25	21.1	84	68-128
104-51-8	n-Butylbenzene	25	26.2	105	84-124
135-98-8	sec-Butylbenzene	25	26.9	108	86-127
98-06-6	tert-Butylbenzene	25	29.6	118	83-126
108-90-7	Chlorobenzene	25	25.7	103	87-115
75-00-3	Chloroethane	25	25.7	103	54-166
67-66-3	Chloroform	25	25.2	101	85-123
95-49-8	o-Chlorotoluene	25	25.6	102	84-121
106-43-4	p-Chlorotoluene	25	26.2	105	84-120
75-15-0	Carbon disulfide	25	26.9	108	67-147
56-23-5	Carbon tetrachloride	25	27.0	108	74-139
75-34-3	1,1-Dichloroethane	25	26.4	106	82-127
75-35-4	1,1-Dichloroethylene	25	28.7	115	75-133
563-58-6	1,1-Dichloropropene	25	27.7	111	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	21.9	88	61-118
106-93-4	1,2-Dibromoethane	25	24.6	98	80-115
107-06-2	1,2-Dichloroethane	25	25.0	100	76-122
78-87-5	1,2-Dichloropropane	25	25.4	102	81-120
142-28-9	1,3-Dichloropropane	25	24.1	96	81-113
594-20-7	2,2-Dichloropropane	25	27.0	108	77-138
124-48-1	Dibromochloromethane	25	25.2	101	74-116
75-71-8	Dichlorodifluoromethane	25	25.8	103	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.9	104	83-119
541-73-1	m-Dichlorobenzene	25	25.3	101	86-115
95-50-1	o-Dichlorobenzene	25	24.9	100	85-115
106-46-7	p-Dichlorobenzene	25	24.9	100	87-113
156-60-5	trans-1,2-Dichloroethylene	25	26.5	106	82-126
540-59-0	1,2-Dichloroethene (total)	50	51.3	103	83-119
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	87-123
100-41-4	Ethylbenzene	25	25.6	102	87-118

Blank Spike Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-BS	B074894.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	131	105	58-125
87-68-3	Hexachlorobutadiene	25	25.4	102	71-133
98-82-8	Isopropylbenzene	25	29.5	118	87-131
99-87-6	p-Isopropyltoluene	25	26.5	106	83-125
108-10-1	4-Methyl-2-pentanone	125	115	92	62-125
74-83-9	Methyl bromide	25	23.8	95	55-151
74-87-3	Methyl chloride	25	27.5	110	55-173
74-95-3	Methylene bromide	25	25.5	102	81-116
75-09-2	Methylene chloride	25	25.3	101	69-125
78-93-3	Methyl ethyl ketone	125	141	113	61-127
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	75-116
91-20-3	Naphthalene	25	23.6	94	59-125
103-65-1	n-Propylbenzene	25	26.4	106	86-125
100-42-5	Styrene	25	26.2	105	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	25.3	101	81-119
71-55-6	1,1,1-Trichloroethane	25	26.2	105	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.8	95	71-120
79-00-5	1,1,2-Trichloroethane	25	24.1	96	80-114
87-61-6	1,2,3-Trichlorobenzene	25	23.9	96	64-126
96-18-4	1,2,3-Trichloropropane	25	23.8	95	77-115
120-82-1	1,2,4-Trichlorobenzene	25	24.5	98	68-123
95-63-6	1,2,4-Trimethylbenzene	25	25.1	100	82-120
108-67-8	1,3,5-Trimethylbenzene	25	25.2	101	83-123
127-18-4	Tetrachloroethylene	25	26.6	106	80-131
108-88-3	Toluene	25	25.7	103	86-116
79-01-6	Trichloroethylene	25	26.4	106	85-124
75-69-4	Trichlorofluoromethane	25	30.8	123	66-156
75-01-4	Vinyl chloride	25	22.2	89	57-153
1330-20-7	Xylene (total)	75	77.5	103	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	99%	86-112%

Blank Spike Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB3081-BS	B074894.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-12MS	B074907.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12MSD	B074908.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Compound	F81314-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	113	90	91.7	73	21*	59-134/14
71-43-2	Benzene	0.28	J	25	31.8	126*	25.8	102	21*	83-124/11
108-86-1	Bromobenzene	ND		25	28.8	115	24.7	99	15*	83-115/10
74-97-5	Bromochloromethane	ND		25	28.8	115*	24.2	97	17*	78-112/10
75-27-4	Bromodichloromethane	ND		25	31.4	126*	26.0	104	19*	76-116/10
75-25-2	Bromoform	ND		25	25.7	103	21.1	84	20*	68-128/11
104-51-8	n-Butylbenzene	ND		25	30.9	124	25.8	103	18*	84-124/10
135-98-8	sec-Butylbenzene	ND		25	31.6	126	26.4	106	18*	86-127/10
98-06-6	tert-Butylbenzene	ND		25	34.5	138*	25.6	102	30*	83-126/10
108-90-7	Chlorobenzene	ND		25	30.0	120*	24.8	99	19*	87-115/9
75-00-3	Chloroethane	ND		25	29.4	118	25.1	100	16	54-166/20
67-66-3	Chloroform	0.35	J	25	30.6	121	25.2	99	19*	85-123/10
95-49-8	o-Chlorotoluene	ND		25	30.3	121	25.3	101	18*	84-121/10
106-43-4	p-Chlorotoluene	ND		25	30.7	123*	26.1	104	16*	84-120/10
75-15-0	Carbon disulfide	ND		25	32.0	128	25.4	102	23*	67-147/12
56-23-5	Carbon tetrachloride	ND		25	32.8	131	26.6	106	21*	74-139/13
75-34-3	1,1-Dichloroethane	0.64	J	25	32.4	127	27.0	105	18*	82-127/10
75-35-4	1,1-Dichloroethylene	1.2		25	37.3	144*	28.9	111	25*	75-133/13
563-58-6	1,1-Dichloropropene	ND		25	33.5	134*	26.9	108	22*	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	26.9	108	22.4	90	18*	61-118/15
106-93-4	1,2-Dibromoethane	ND		25	29.2	117*	24.1	96	19*	80-115/10
107-06-2	1,2-Dichloroethane	ND		25	30.9	124*	25.6	102	19*	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	30.6	122*	25.2	101	19*	81-120/11
142-28-9	1,3-Dichloropropane	ND		25	29.1	116*	23.8	95	20*	81-113/11
594-20-7	2,2-Dichloropropane	ND		25	32.0	128	26.0	104	21*	77-138/12
124-48-1	Dibromochloromethane	ND		25	30.0	120*	24.9	100	19*	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	31.3	125	24.5	98	24*	34-158/22
156-59-2	cis-1,2-Dichloroethylene	48.3		25	90.3	168*	75.7	110	18*	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	30.8	123*	24.9	100	21*	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	29.8	119*	25.2	101	17*	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	29.3	117*	25.0	100	16*	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	29.3	117*	24.4	98	18*	87-113/10
156-60-5	trans-1,2-Dichloroethylene	0.77	J	25	32.9	129*	27.3	106	19*	82-126/10
540-59-0	1,2-Dichloroethene (total)	49.0		50	123	148*	103	108	18*	83-119/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	31.7	127*	25.9	104	20*	87-123/10
100-41-4	Ethylbenzene	ND		25	30.7	123*	25.2	101	20*	87-118/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-12MS	B074907.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12MSD	B074908.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Compound	F81314-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		125	131	105	105	84	22*	58-125/14
87-68-3	Hexachlorobutadiene	ND		25	30.4	122	24.6	98	21*	71-133/12
98-82-8	Isopropylbenzene	ND		25	35.4	142*	29.4	118	19*	87-131/10
99-87-6	p-Isopropyltoluene	ND		25	32.1	128*	26.4	106	19*	83-125/9
108-10-1	4-Methyl-2-pentanone	ND		125	143	114	117	94	20*	62-125/13
74-83-9	Methyl bromide	ND		25	27.8	111	23.8	95	16	55-151/21
74-87-3	Methyl chloride	ND		25	32.5	130	27.3	109	17	55-173/22
74-95-3	Methylene bromide	ND		25	30.9	124*	25.9	104	18*	81-116/10
75-09-2	Methylene chloride	ND		25	30.7	123	25.3	101	19*	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	128	102	107	86	18*	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	28.6	114	23.6	94	19*	75-116/10
91-20-3	Naphthalene	ND		25	27.1	108	22.9	92	17*	59-125/15
103-65-1	n-Propylbenzene	ND		25	31.5	126*	26.7	107	16*	86-125/10
100-42-5	Styrene	ND		25	30.6	122*	25.4	102	19*	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	30.2	121*	25.2	101	18*	81-119/10
71-55-6	1,1,1-Trichloroethane	ND		25	31.5	126	26.0	104	19*	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	28.5	114	24.2	97	16*	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	29.7	119*	23.6	94	23*	80-114/11
87-61-6	1,2,3-Trichlorobenzene	ND		25	27.6	110	23.2	93	17*	64-126/16
96-18-4	1,2,3-Trichloropropane	ND		25	28.7	115	24.0	96	18*	77-115/12
120-82-1	1,2,4-Trichlorobenzene	ND		25	28.8	115	24.2	97	17*	68-123/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	29.9	120	25.3	101	17*	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	29.5	118	24.7	99	18*	83-123/10
127-18-4	Tetrachloroethylene	0.72	J	25	32.2	126	26.6	104	19*	80-131/12
108-88-3	Toluene	0.24	J	25	30.4	121*	25.1	99	19*	86-116/10
79-01-6	Trichloroethylene	10.8		25	44.5	135*	36.3	102	20*	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	38.2	153	31.0	124	21*	66-156/15
75-01-4	Vinyl chloride	1.5		25	27.4	104	22.7	85	19	57-153/22
1330-20-7	Xylene (total)	ND		75	93.1	124*	76.7	102	19*	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F81314-12	Limits
1868-53-7	Dibromofluoromethane	103%	103%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	105%	106%	76-127%
2037-26-5	Toluene-D8	99%	100%	100%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81314-12MS	B074907.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12MSD	B074908.D	1	04/15/11	AJ	n/a	n/a	VB3081
F81314-12	B074904.D	1	04/15/11	AJ	n/a	n/a	VB3081

The QC reported here applies to the following samples: **Method:** SW846 8260B

F81315-1, F81315-2, F81315-3, F81315-4, F81315-5, F81315-6

CAS No.	Surrogate Recoveries	MS	MSD	F81314-12	Limits
460-00-4	4-Bromofluorobenzene	99%	101%	98%	84-120%

Southeast

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2096-MB	XY049192.D	1	04/12/11	WV	n/a	n/a	GXY2096

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81315-1, F81315-2, F81315-3, F81315-4

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Blank Spike Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2096-BS	XY049193.D	1	04/12/11	WV	n/a	n/a	GXY2096

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81315-1, F81315-2, F81315-3, F81315-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	96.4	89	54-149
74-84-0	Ethane	219	204	93	57-143
74-85-1	Ethene	290	270	93	57-143

Matrix Spike Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81368-2MS	XY049200.D	1	04/12/11	WV	n/a	n/a	GXY2096
F81368-2	XY049195.D	1	04/12/11	WV	n/a	n/a	GXY2096

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81315-1, F81315-2, F81315-3, F81315-4

CAS No.	Compound	F81368-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	18.0		108	116	91	54-149
74-84-0	Ethane	1.0	U	219	210	96	57-143
74-85-1	Ethene	1.0	U	290	278	96	57-143

Duplicate Summary

Job Number: F81315
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F81368-5DUP	XY049207.D	2	04/12/11	WV	n/a	n/a	GXY2096
F81368-5	XY049198.D	1	04/12/11	WV	n/a	n/a	GXY2096
F81368-5	XY049204.D	2	04/12/11	WV	n/a	n/a	GXY2096

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

F81315-1, F81315-2, F81315-3, F81315-4

CAS No.	Compound	F81368-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1220 [a]		1190		6	24
74-84-0	Ethane	1.0 U		ND		nc	23
74-85-1	Ethene	14.4		13.9		4	10

(a) Result is from Run #2.

Southeast

ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	24	25		
Antimony	6.0	1	2		
Arsenic	10	1	2		
Barium	200	4	5		
Beryllium	4.0	.1	1		
Cadmium	5.0	.1	1		
Calcium	1000	50	100	4.8	<1000
Chromium	10	1	1		
Cobalt	50	1	1		
Copper	25	1	2		
Iron	300	23	35	0.0	<300
Lead	5.0	1	1		
Magnesium	5000	50	100	4.1	<5000
Manganese	15	1	1	0.20	<15
Molybdenum	50	1	2		
Nickel	40	1	2		
Potassium	10000	50	500		
Selenium	10	2	2		
Silver	10	1	1		
Sodium	10000	850	1900		
Strontium	10	1	1		
Thallium	10	1.5	1.9		
Tin	50	1	1		
Titanium	10	1	2		
Vanadium	50	1	1		
Zinc	20	1	5		

Associated samples MP20376: F81315-1, F81315-2, F81315-3, F81315-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/15/11					04/15/11	
Metal	F81451-1 Original	DUP	RPD	QC Limits	F81451-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	145000	152000	4.7	0-20	145000	174000	25000	116.0	80-120
Chromium	anr								
Cobalt									
Copper	anr								
Iron	6380	6660	4.3	0-20	6380	32300	26000	99.7	80-120
Lead	anr								
Magnesium	18000	19100	5.9	0-20	18000	42800	25000	99.2	80-120
Manganese	35.8	36.2	1.1	0-20	35.8	562	500	105.2	80-120
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP20376: F81315-1, F81315-2, F81315-3, F81315-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376 | Methods: SW846 6010C
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 04/15/11

Metal	F81451-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	145000	163000	25000	72.0 (a)	6.5	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	6380	30300	26000	92.0	6.4	20
Lead	anr					
Magnesium	18000	40400	25000	89.6	5.8	20
Manganese	35.8	532	500	99.2	5.5	20
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver						
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP20376: F81315-1, F81315-2, F81315-3, F81315-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	25800	25000	103.2	80-120
Chromium	anr			
Cobalt				
Copper	anr			
Iron	26000	26000	100.0	80-120
Lead	anr			
Magnesium	24600	25000	98.4	80-120
Manganese	560	500	112.0	80-120
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP20376: F81315-1, F81315-2, F81315-3, F81315-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	F81451-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	145000	156000	7.6	0-10
Chromium	anr			
Cobalt				
Copper	anr			
Iron	6380	6680	4.7	0-10
Lead	anr			
Magnesium	18000	19300	6.9	0-10
Manganese	35.8	37.0	3.4	0-10
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver				
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP20376: F81315-1, F81315-2, F81315-3, F81315-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

QC Batch ID: MP20376
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/15/11

Metal	Sample ml	Final ml	F81451-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium	9.8	10	145000	142100	150800	0.2	250	5000	174.0*(a	80-120
Chromium										
Cobalt										
Copper										
Iron	9.8	10	6380	6252.4	9492	0.2	150	3000	108.0	80-120
Lead										
Magnesium	9.8	10	18040	17679.2	23060	0.2	250	5000	107.6	80-120
Manganese	9.8	10	35.8	35.084	86.2	0.2	2.5	50	102.2	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP20376: F81315-1, F81315-2, F81315-3, F81315-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Total as CaCO3	GN44012	5.0	0.0	mg/l	250	248	99.2	90-113%
Bromide	GP16764/GN43999	0.50	0.0	mg/l	12.5	13.1	104.8	90-110%
Chloride	GP16764/GN43999	2.0	0.0	mg/l	50	52.2	104.4	90-110%
Nitrogen, Nitrate	GP16764/GN43999	0.10	0.0	mg/l	2.5	2.44	97.6	90-110%
Nitrogen, Nitrite	GP16764/GN43999	0.10	0.0	mg/l	2.5	2.63	105.2	90-110%
Sulfate	GP16764/GN43999	2.0	0.0	mg/l	50	53.1	106.2	90-110%
Sulfide	GN44072	1.0	0.0	mg/l	13.4	11.5	85.7	76-112%
Total Organic Carbon	GP16823/GN44148	1.0	0.0	mg/l	15	14.9	99.3	90-110%

Associated Samples:
Batch GN44012: F81315-1, F81315-2, F81315-3, F81315-4
Batch GN44072: F81315-1, F81315-2, F81315-3, F81315-4
Batch GP16764: F81315-1, F81315-2, F81315-3, F81315-4
Batch GP16823: F81315-1, F81315-2, F81315-3, F81315-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN44012	F81302-7	mg/l	87.4	91.6	4.7	0-20%
Bromide	GP16764/GN43999	F81302-8	mg/l	0.25 U	0.0	0.0	0-20%
Chloride	GP16764/GN43999	F81302-8	mg/l	31.7	31.7	0.0	0-20%
Nitrogen, Nitrate	GP16764/GN43999	F81302-8	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrite	GP16764/GN43999	F81302-8	mg/l	0.050 U	0.0	0.0	0-20%
Sulfate	GP16764/GN43999	F81302-8	mg/l	1.0 U	0.0	0.0	0-20%
Sulfide	GN44072	F81333-1	mg/l	0.60 U	0.0	0.0	0-34%
Total Organic Carbon	GP16823/GN44148	F81268-16	mg/l	1.5	1.5	0.0	0-20%

Associated Samples:
Batch GN44012: F81315-1, F81315-2, F81315-3, F81315-4
Batch GN44072: F81315-1, F81315-2, F81315-3, F81315-4
Batch GP16764: F81315-1, F81315-2, F81315-3, F81315-4
Batch GP16823: F81315-1, F81315-2, F81315-3, F81315-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN44012	F81302-7	mg/l	87.4	250	335	99.0	90-113%
Bromide	GP16764/GN43999	F81302-8	mg/l	0.25 U	12.5	16.3	130.4N(a)	90-110%
Chloride	GP16764/GN43999	F81302-8	mg/l	31.7	50	86.1	108.8	90-110%
Nitrogen, Nitrate	GP16764/GN43999	F81302-8	mg/l	0.050 U	2.5	2.8	112.0N(a)	90-110%
Nitrogen, Nitrite	GP16764/GN43999	F81302-8	mg/l	0.050 U	2.5	3.0	120.0N(a)	90-110%
Sulfate	GP16764/GN43999	F81302-8	mg/l	1.0 U	50	57.3	114.6N(a)	90-110%
Sulfide	GN44072	F81333-1	mg/l	0.60 U	9.94	8.9	88.5	76-112%
Total Organic Carbon	GP16823/GN44148	F81268-16	mg/l	1.5	15	16.5	100.0	90-110%

Associated Samples:
Batch GN44012: F81315-1, F81315-2, F81315-3, F81315-4
Batch GN44072: F81315-1, F81315-2, F81315-3, F81315-4
Batch GP16764: F81315-1, F81315-2, F81315-3, F81315-4
Batch GP16823: F81315-1, F81315-2, F81315-3, F81315-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F81315
Account: GSIKSW - Geotechnical Services Inc
Project: Brenntag, Wichita, KS

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN44012	F81302-7	mg/l	87.4	250	331	1.2	20%

Associated Samples:
Batch GN44012: F81315-1, F81315-2, F81315-3, F81315-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

ID #: 1102
Revision #: 0
Date: 2/10/11
Geographic Area: General

Competency: Envir Sci
TCL: JSK
Technical Expert: BMS2

Foth Infrastructure & Environment, LLC

PROJECT IDENTIFICATION

Project Name: Brenntag, 1520 N. Barwise – Wichita, KS

Laboratory: Accutest Laboratories – Orlando, FL

Laboratory Project ID (SDG): F81315

Sample Collection Dates: 04/04/2011

Sample Analysis Dates: 04/06/2011 – 04/15/2011

Sample Matrix: Ground water

Analytical Fractions: ☒ VOC ☐ SVOC ☐ PEST/PCB ☐ TPH
☒ METALS ☒ ANIONS ☐ CATIONS ☒ WET CHEM

Sample IDs Reviewed: See attached list

Verification and Validation Stage: ☐ 1 ☒ 2A ☐ 2B ☐ 3 ☐ 4

Verified and Validated By: T. Scott Barton, Lead Env Scientist — T. Scott Barton 4/25/2011
Name, Title — Signature, Date

SUMMARY

Item #	Review Item	Reported		Acceptable		Review Tasks
		Yes	No	Yes	No	
1.	Chain of Custody and Sample Receipt Form	Y		Y		Confirm relinquish & receipt signatures. Confirm parameters and analytical methods in SRF match COC which match SAP.
2.	Case Narrative	Y		Y		Review for items noted by the laboratory.
3.	Sample Condition Upon Receipt	Y		Y		Confirm samples in acceptable condition and no discrepancies noted. Preservation (temperature <6 degrees C, pH, etc)
4.	Methods Requested	Y		Y		Confirm the following: 1. Analyses ordered match workplan. 2. Lab provided all methods ordered.
5.	Analytes Requested	Y		Y		Confirm the following: 1. Analytes ordered match workplan. 2. Lab provided all analytes ordered.
6.	Holding Times	Y		Y		Confirm laboratory performed extractions and analyses within method-required holding times.
7.	Blanks	Y		Y		Confirm the following: 1. No detections in laboratory (method) blanks. 2. No detections in trip blanks (*VOCs only*). 3. No detections in equipment blanks. 4. Equipment/Trip blanks collected at workplan-required frequency.
8.	Surrogates	Y		Y		Confirm the following (*organic analyses only*): 1. Surrogates analyzed. 2. Surrogate recovery within QC limits.

Item #	Review Item	Reported		Acceptable		Review Tasks
		Yes	No	Yes	No	
9.	MS/MSDs	Y		Y		Confirm the following: 1. MS/MSDs at frequency specified in workplan. 2. MS percent recovery within lab specified limits. 3. Organic MSD relative percent difference (RPD) within limits. 4. Inorganic lab replicate RPD within limits.
10.	Field Duplicates	N		Y		Confirm the following: 1. Field duplicates collected at required frequency. 2. Field duplicate RPD within acceptable limits.
11.	LCS/LCSDs	NA		NA		Confirm the following (*low-level water analyses only*): 1. LCS analyzed. 2. LCS/LCSD recovery within lab specified limits.
12.	Initial Calibrations	NA		NA		Confirm the following for project compounds and system monitoring compounds: 1. RRFs greater than or equal to 0.05. 2. %RSD from initial calibration less than 30%. If R^2 values are reported instead, R^2 must be > 0.990.
13.	Continuing Calibrations	NA		NA		Confirm the following for project compounds and system monitoring compounds: 1. RRF greater than 0.05. 2. %D less than 25%.
14.	Instrument Tuning	NA		NA		Confirm % relative abundance are within ion abundance criteria.
15.	Internal Standards	NA		NA		Confirm that retention times (RT) of samples are consistent with RT of the standards, within the upper and lower limits.

COMMENTS AND REQUIRED ACTIONS Comments are provided for any items that need additional explanation (referenced by item number above).

1. The chain-of-custody form for this sample delivery group did not indicate that VOC samples were preserved with HCl. The sampling contractor indicated that the samples were collected using vials pre-preserved with HCl.

9. The MS/MSD for this sample delivery group is the same one provided with sample delivery group F81314. While qualifiers were assigned for parent sample results associated with the MS/MSD, no qualifiers are necessary for data in this sample delivery group.

10. No parent / duplicate samples were submitted with this sample delivery group.

OVERALL ASSESSMENT OF DATA

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	Y		
2. Precision	Y		
3. Accuracy	Y		
4. Representativeness	Y		
5. Comparability	Y		
6. Completeness	Y		
7. Suitability for Intended Use	Y		

Sample Summary

Geotechnical Services Inc

Brenntag, Wichita, KS

Job No: F81315

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F81315-1	04/04/11	17:20 DR	04/06/11	AQ	Ground Water	MW-5S PUMP
F81315-2	04/04/11	17:50 DR	04/06/11	AQ	Ground Water	MW-5D PUMP
F81315-3	04/04/11	18:30 DR	04/06/11	AQ	Ground Water	MW-6S PUMP
F81315-4	04/04/11	19:00 DR	04/06/11	AQ	Ground Water	MW-6D PUMP
F81315-5	04/04/11	00:00 DR	04/06/11	AQ	Trip Blank Water	TRIP BLANK
F81315-6	04/04/11	16:45 DR	04/06/11	AQ	Equipment Blank	EQUIPMENT BLANK

Appendix H

Second Semi-Annual 2014, Progress Report, January 21, 2015

605 N. Boonville Avenue
Springfield, MO 65806
(417) 864-6444 • Fax: (417) 864-6445
www.foth.com

January 21, 2015

ROBERT M. KECK
LICENSED
556
KANSAS
GEOLOGIST
1-21-2015

Ms. Holly Burke
Bureau of Environmental Remediation
Kansas Department of Health & Environment
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367

Dear Ms. Burke:

RE: Brenntag Southwest, Wichita, KS - 1520 North Barwise
Second Semi-Annual 2014, Progress Report

In accordance with the December 9, 2002, Unilateral Order (Order) issued by the Kansas Department of Health and the Environment (KDHE) to Brenntag, Inc. (Brenntag), this letter provides a semi-annual Progress Report (Progress Report) to the KDHE regarding the status of ongoing work at the Brenntag facility located at 1520 North Barwise in Wichita, Kansas (Site).

The intent of this Progress Report is to describe actions, progress, and status of projects that have been taken toward achieving compliance with the Order and to identify any requirements that were not completed and/or any potential problems.

The period of time covered by this Progress Report is July 1 to December 31, 2014. Beginning in 2013, Brenntag will collect groundwater samples on a semi-annual frequency and will provide testing results semi-annually. Sampling is scheduled for April and October and Progress Reports will be submitted on or before July 31 and January 31, respectively, for each monitoring period.

Scope of Work Performed

Monitoring wells were sampled on October 21, 2014. The monitoring well sampling field forms are provided in Attachment 1. Wells were sampled using a no-purge HydraSleeve® technique. HydraSleeve® samplers were deployed in the wells during the previous sampling event. Groundwater samples were collected in laboratory supplied sample bottles, packaged on ice with a completed chain of custody and trip blank and submitted to the analytical laboratory by overnight courier for analysis of VOCs. Samples were sent to Accutest Laboratory Southeast in Orlando, Florida (Kansas Certification Number E-10327). A two-week analytical turnaround time was requested.

The wells were constructed as follows:

Well Name	Screen Depth	Total Depth
MW-1s	15.0 to 25.0	25.5
MW-1d	32.0 to 37.0	37.5
MW-2s	15.0 to 25.0	25.5
MW-2d	31.0 to 36.0	36.5
MW-3s	15.0 to 25.0	25.5
MW-3d	33.0 to 38.0	38.5
MW-4s	15.0 to 25.0	25.4
MW-4d	32.5 to 37.5	38.0
MW-5s	16.0 to 26.0	26.2
MW-5d	29.0 to 34.0	34.2
MW-6s	16.0 to 26.0	26.4
MW-6d	28.0 to 33.0	33.6

Note: PZ-3 was abandoned in March 2011.

Prepared by: DJD4
Checked by: RMK

Additional Work Performed

- Brenntag submitted the First Semi-Annual Progress Report to KDHE for review on July 1, 2014. KDHE acknowledged receipt of this report and approved the document without comment in a letter dated August 11, 2014.

Results Summary

Groundwater levels measured during this sampling event are shown in Table 1. Figure 1 presents the groundwater gradient and flow direction from the October, 2014 event. Tables 2 and 3 provide a summary of the results and a comparison of the results with the RSK Residential Groundwater Pathway values.

Also by request of KDHE maps of chemical distribution in groundwater from the current sampling event are presented in Figures 2 and 3.

Graphical trend analyses for each contaminant of concern in existing monitoring wells are also included in Attachment 2. The laboratory report is provided in Attachment 3.

All data were determined to be usable. Qualifiers were not added to any results despite toluene detected in the trip blank and relative percent difference (RPD) exceedances in the laboratory matrix spike (MS) and matrix spike duplicate (MSD) samples. Data Validation sheets from this event are included with the analytical results in Attachment 3.

A brief discussion of the semi-annual groundwater monitoring analytical results and trend analyses are provided below.

- Groundwater flow is generally to the southeast and appears to angle more sharply to the east in the area of wells MW-4s and MW-5s.

- During this sampling event, groundwater analytical results did not exceed the Residential RSK values for groundwater in the following monitoring wells: MW-1s; MW-1d; MW-2s; MW-2d; MW-3d; MW-4s; MW-4d; and MW-5s.

- Groundwater analytical results did exceed the Residential RSK values for groundwater for one or more chemicals of concern for the following wells: MW-3s (for PCE); MW-5d (for TCE); MW-6s (for PCE and TCE); and MW-6d (for TCE).

- As shown in Figure 2, shallow-groundwater PCE concentrations in on-site monitoring wells (MW-1s, MW-2s, MW-3s, and MW-4s) range from less than 0.001 mg/L to 0.0193 mg/L. Off-site monitoring wells (MW-5s and MW-6s) show PCE concentrations ranging from 0.0043 mg/L to 0.0315 mg/L.

- As shown in Figure 2, shallow-groundwater TCE concentrations in on-site monitoring wells range from 0.00082J to 0.0024 mg/L. Off-site monitoring wells show TCE concentrations ranging from 0.0038 to 0.0136 mg/L. Thus maximum PCE and TCE concentrations in shallow wells appear to be higher at off-site locations than at on-site locations.

- As shown in Figure 3, deep-groundwater PCE concentrations in on-site monitoring wells (MW-1d, MW-2d, MW-3d, and MW-4d) were all less than 0.001 mg/L. Off-site monitoring wells (MW-5d and MW-6d) show PCE concentrations ranging from 0.00064J mg/L to less than 0.001 mg/L. These values do not exceed Residential RSK levels.

- As shown in Figure 3, deep-groundwater TCE concentrations in on-site monitoring wells range from 0.0010 to 0.0019 mg/L. Off-site monitoring wells show TCE concentrations ranging from 0.0116 to 0.0136 mg/L. Thus TCE concentrations in deep wells appear to be higher at off-site locations than at on-site locations.

- As shown on the Trend Analysis Graphs (Attachment 2) for MW-1s and 1d, TCE and cis-1,2-DCE are present in groundwater at the upgradient edge of Brenntag property. The concentrations of TCE and cis-1,2-DCE appear to vary together, particularly in MW-1d.

- As shown on the Trend Analysis Graphs for MW-2s and 2d, PCE is only detected in shallow groundwater and not in deep groundwater. In shallow groundwater, PCE, TCE and cis-1,2-DCE decreased after the soil removal action conducted in mid-2007. Apparent increases in these compounds generally from mid-2010 to late 2011 now show declining trends. PCE, TCE, and cis-1,2-DCE appear to vary together, particularly in MW-2s. In deeper groundwater, TCE shows a declining trend (except for an increase during the second semi-annual event of 2013). TCE and cis-1,2-DCE appear to show an inverse relationship.

- As shown on the Trend Analysis Graphs for MW-3s and 3d, PCE has been detected in both shallow and deeper groundwater; however recent concentrations in deeper groundwater are very low or essentially absent. In shallow groundwater, PCE, TCE and cis-1,2-DCE decreased after the soil removal action conducted in mid-2007 but has since shown some rebound. PCE, TCE, and cis-1,2-DCE appear to generally vary together but with differing amplitude. In deeper groundwater, TCE, cis-1,2-DCE, and VC show variable but overall stable to declining trends.

- As shown on the Trend Analysis Graphs for MW-4s and 4d, PCE is detected only in shallow groundwater at concentrations below the maximum contaminant level (MCL). TCE and cis-1,2-DCE show similar but overall stable to declining trends. In deeper groundwater, TCE and cis-1,2-DCE show similar stable or decreasing trends.

- As shown on the Trend Analysis Graphs for MW-5s and 5d, PCE is detected only in shallow groundwater at low concentrations and shows a generally declining trend. TCE and cis-1,2-DCE show generally stable trends in shallow groundwater and show similar stable or decreasing trends in deeper groundwater.

- As shown on the Trend Analysis Graphs for MW-6s and 6d, PCE is detected only in shallow groundwater at low estimated concentrations. In shallow groundwater, PCE has shown an increasing trend starting in mid-2011 at a concentration of 0.0101 mg/L and peaking in March 2012 at a concentration of 0.181 mg/L. Current PCE levels appear to be stable to declining. TCE and cis-1,2-DCE show similar trends that are generally stable. VC is detected at low levels. In deeper groundwater, TCE, cis-1,2-DCE, and VC concentrations appear generally stable.

Work Proposed

The following is proposed for the next reporting period.

- The Comprehensive Investigation Report and Corrective Action Study for the Site are being prepared and will be submitted to KDHE on or before March 31, 2014.

- The groundwater monitoring wells are scheduled to be sampled during the month of April, 2015. KDHE will receive a notification of field activities at least 10 working days prior to the event.

Issues/Concerns

No issues or concerns have been identified at this time.

If you have any questions or comments regarding this report, please call me at (417) 864-6444, extension 3621.

Sincerely,

Foth Infrastructure & Environment, LLC

Robert M. Kick, P.G.
Senior Project Manager

Kris Gamble
Project Environmental Specialist

cc: Brian Symons, P.E., Foth Infrastructure & Environment, LLC
Shawn P. Wiram, Brenntag, Inc.

Tables

Table 1
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-1d		MW-1s		MW-2d		MW-2s	
MP Elevation (ft msl)	1305.17		1305.2		1306.44		1306.54	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	11.95	1293.22	11.99	1293.21	13.51	1292.93	13.6	1292.94
5/6/2008	11.52	1293.65	11.59	1293.61	13.1	1293.34	13.22	1293.32
8/29/2008	10.43	1294.74	10.51	1294.69	12.03	1294.41	12.13	1294.41
12/22/2008	10.77	1294.40	10.83	1294.37	12.34	1294.10	12.47	1294.07
3/19/2009	11.26	1293.91	11.31	1293.89	12.82	1293.62	12.92	1293.62
6/16/2009	10.04	1295.13	10.1	1295.10	11.61	1294.83	11.71	1294.83
9/18/2009	10.21	1294.96	10.28	1294.92	11.79	1294.65	11.89	1294.65
12/23/2009	10.95	1294.22	11.01	1294.19	12.5	1293.94	12.62	1293.92
3/11/2010	11.27	1293.90	11.33	1293.87	12.84	1293.60	12.94	1293.60
6/28/2010	10.85	1294.32	10.92	1294.28	12.44	1294.00	12.54	1294.00
9/10/2010	11.35	1293.82	11.42	1293.78	12.92	1293.52	13.02	1293.52
12/16/2010	11.96	1293.21	12.03	1293.17	13.53	1292.91	13.64	1292.90
4/4/2011	12.42	1292.75	12.49	1292.71	13.91	1292.53	14.06	1292.48
6/7/2011	12.58	1292.59	12.63	1292.57	14.1	1292.34	14.19	1292.35
9/15/2011	12.82	1292.35	12.9	1292.30	14.36	1292.08	14.44	1292.10
12/15/2011	13	1292.17	13.04	1292.16	14.54	1291.90	14.63	1291.91
3/14/2012	12.91	1292.26	12.98	1292.22	14.47	1291.97	14.57	1291.97
6/26/2012	12.52	1292.65	12.34	1292.86	13.9	1292.54	14.04	1292.50
10/3/2012	12.73	1292.44	12.79	1292.41	14.26	1292.18	14.35	1292.19
4/23/2013	13.05	1292.12	13.15	1292.05	14.7	1291.74	14.8	1291.74
10/25/2013	11.8	1293.37	11.87	1293.33	13.37	1293.07	13.47	1293.07
4/8/2014	12.46	1292.71	12.51	1292.69	15.27	1291.17	14.05	1292.49
10/21/2014	12.5	1292.67	12.57	1292.63	14.03	1292.41	14.12	1292.42

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Table 1
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-3d		MW-3s		MW-4d	
MP Elevation (ft msl)	1306.54		1306.54		1306.15	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	13.5	1293.04	13.61	1292.93	NOT COMPLETED	
5/6/2008	13.21	1293.33	13.2	1293.34		
8/29/2008	12.11	1294.43	12.11	1294.43		
12/22/2008	12.42	1294.12	12.4	1294.14		
3/19/2009	12.89	1293.65	12.9	1293.64		
6/16/2009	11.69	1294.85	11.67	1294.87		
9/18/2009	11.86	1294.68	11.86	1294.68		
12/23/2009	12.57	1293.97	12.58	1293.96		
3/11/2010	12.91	1293.63	12.9	1293.64		
6/28/2010	12.53	1294.01	12.51	1294.03		
9/10/2010	12.98	1293.56	13	1293.54		
12/16/2010	13.62	1292.92	13.61	1292.93		
4/4/2011	14.03	1292.51	14.02	1292.52	13.66	1292.49
6/7/2011	14.19	1292.35	14.15	1292.39	13.8	1292.35
9/15/2011	14.43	1292.11	14.43	1292.11	14.07	1292.08
12/15/2011	14.61	1291.93	14.59	1291.95	14.23	1291.92
3/14/2012	14.57	1291.97	14.55	1291.99	14.18	1291.97
6/26/2012	13.94	1292.60	13.97	1292.57	13.59	1292.56
10/3/2012	14.33	1292.21	14.32	1292.22	13.97	1292.18
4/23/2013	14.79	1291.75	14.72	1291.82	14.39	1291.76
10/25/2013	13.44	1293.10	13.43	1293.11	13.06	1293.09
4/8/2014	14.08	1292.46	14.02	1292.52	13.7	1292.45
10/21/2014	14.11	1292.43	14.06	1292.48	13.72	1292.43

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Table 1
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-4s		MW-5d		MW-5s	
MP Elevation (ft msl)	1306.17		1304.97		1304.84	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	NOT COMPLETED		NOT COMPLETED		NOT COMPLETED	
5/6/2008						
8/29/2008						
12/22/2008						
3/19/2009						
6/16/2009						
9/18/2009						
12/23/2009						
3/11/2010						
6/28/2010						
9/10/2010						
12/16/2010						
4/4/2011	13.68	1292.49	12.95	1292.02	12.96	1291.88
6/7/2011	13.83	1292.34	13.08	1291.89	13.08	1291.76
9/15/2011	14.09	1292.08	13.35	1291.62	13.34	1291.50
12/15/2011	14.26	1291.91	13.52	1291.45	13.52	1291.32
3/14/2012	14.2	1291.97	13.47	1291.50	13.47	1291.37
6/26/2012	13.61	1292.56	12.91	1292.06	12.92	1291.92
10/3/2012	13.99	1292.18	13.24	1291.73	13.25	1291.59
4/23/2013	14	1292.17	13.68	1291.29	13.47	1291.37
10/25/2013	13.08	1293.09	13.71	1291.26	13.7	1291.14
4/8/2014	15.01	1291.16	14.27	1290.70	14.29	1290.55
10/21/2014	13.77	1292.40	13.01	1291.96	13.04	1291.80

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Table 1
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-6d		MW-6s		PZ-3	
MP Elevation (ft msl)	1304.74		1304.74		1305.72	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	NOT COMPLETED		NOT COMPLETED		13.25	1292.47
5/6/2008					12.87	1292.85
8/29/2008					11.78	1293.94
12/22/2008					12.07	1293.65
3/19/2009					12.58	1293.14
6/16/2009					11.35	1294.37
9/18/2009					11.53	1294.19
12/23/2009					12.28	1293.44
3/11/2010					12.61	1293.11
6/28/2010					12.24	1293.48
9/10/2010					12.7	1293.02
12/16/2010					13.33	1292.39
4/4/2011	12.9	1291.84	12.86	1291.88	ABANDONED	
6/7/2011	13.01	1291.73	12.99	1291.75		
9/15/2011	13.28	1291.46	13.27	1291.47		
12/15/2011	13.44	1291.30	13.43	1291.31		
3/14/2012	14.7	1290.04	13.38	1291.36		
6/26/2012	12.89	1291.85	12.86	1291.88		
10/3/2012	13.21	1291.53	13.19	1291.55		
4/23/2013	13.63	1291.11	13.61	1291.13		
10/25/2013	12.37	1292.37	13.6	1291.14		
4/8/2014	12.94	1291.80	12.94	1291.80		
10/21/2014	12.96	1291.78	12.94	1291.80		

Prepared by: DJD
Checked by: RMK

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Table 2-MW-1D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010		
		sys_sample_code	MW-1D_02_07_2008			MW-1D_05_06_2008			MW-1D_08_29_2008			MW-1D_12_22_2008			MW-1D_03_19_2009			MW-1D_06_19_2009			MW-1D_09_18_2009			MW-1D_12_23_2009			MW-1D_03_11_2010			MW-1D_06_28_2010		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00062	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			0.00125			0.0013			< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0158			0.0091			0.0233			0.0187			0.0311			0.0631			0.0392			0.0466			0.0103			0.0113		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0012			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0013			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0021			< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0156			0.0091			0.023			0.0185			0.0307			0.0623			0.0386			0.046			0.0103			0.0111		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0002	J		< 0.001	U		0.00027	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00066	J		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0014			0.0031			0.0018			0.0016			0.0022			0.00189			0.0018			0.00055	J		0.00068	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		0.0017			0.00133			0.00074	J		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D		
		Date	9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013		
		sys_sample_code	MW-1D_09_10_2010			MW-1D_12_16_2010			MW-1D BAG_04_04_2011			MW-1D BAG_06_07_2011			MW-1D_09_15_2011			MW-1D_12_15_2011			MW-1D_03_14_2012			MW-1D_06_26_2012			MW-1D_10_03_2012			MW-1D_04_23_2013		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00023	J		0.00064	J		0.00031	J		0.00041	J		0.00059	J		0.0005	J		0.00042	J		0.00047	J		0.0006	J		0.00062	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		0.00062	J		0.00025	J		< 0.001	U		0.00044	J		0.00032	J		0.00032	J		< 0.001	U		0.00038	J		0.00043	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0142			0.027			0.0114			0.0105			0.0169			0.0136			0.0142			0.0131			0.0166			0.0189		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00023	J		0.00028	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00024	J	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.014			0.0265			0.0114			0.0105			0.0165			0.0133			0.0139			0.0131			0.0163			0.0185		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.00048	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00032	J		0.00038	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.00079	J		0.0016			0.0011			0.00099	J		0.0018			0.0018			0.0015			0.0017			0.0021			0.0017		
Vinyl Chloride	0.002	mg/L	< 0.001	U		0.00068	J		< 0.001	U		< 0.001	U		0.00035	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1D			MW-1D			MW-1D		
		Date	10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-1D_10_25_2013			MW-1D_04_08_2014			MW-1D_10_21_2014		
		Sample Type	N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00057	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	0.00046	J		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0141			0.0047			0.0036		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	0.00021	J		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0137			0.0047			0.0036		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00034	J		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0017			0.0011			0.001		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010		
		sys_sample_code	MW-1S_02_07_2008			MW-1S_05_06_2008			MW-1S_08_29_2008			MW-1S_12_22_2008			MW-1S_03_19_2009			MW-1S_06_19_2009			MW-1S_09_18_2009			MW-1S_12_23_2009			MW-1S_03_11_2010			MW-1S_06_28_2010		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0022			0.0063			< 0.001	U		< 0.001	U		0.0083			0.0025			< 0.001	U		0.0014	J		0.0032			< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.0019			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.0016			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0022			0.0063			< 0.001	U		< 0.001	U		0.0081			0.0025			< 0.001	U		0.0014			0.0032			0.00047	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0025			0.001			0.0011			0.0019			< 0.001	U		< 0.001	U		0.00075	J		0.00097	J		0.00056	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S		
		Date	9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013		
		sys_sample_code	MW-1S_09_10_2010			MW-1S_12_16_2010			MW-1S BAG_04_04_2011			MW-1S BAG_06_07_2011			MW-1S_09_15_2011			MW-1S_12_15_2011			MW-1S_03_14_2012			MW-1S_06_26_2012			MW-1S_10_03_2012			MW-1S_04_23_2013		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		0.00043	J		0.00038	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	< 0.002	U		< 0.002	U		0.0032			0.001	J		0.0011	J		< 0.002	U		0.0012	J		0.0015	J		0.0016	J		0.002		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.00061	J		0.00059	J		0.0032			0.001			0.0011			0.00053	J		0.0012			0.0015			0.0016			0.002		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.00051	J		0.00054	J		0.0011			0.00065	J		0.00098	J		0.0014			0.0026			0.0037			0.0032			0.0025		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1S			MW-1S			MW-1S		
		Date	10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-1S_10_25_2013			MW-1S_04_08_2014			MW-1S_10_21_2014		
		Sample Type	N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0014	J		0.0011	J		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0014			0.0011			< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.003			0.00094	J		0.00082	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			3/19/2009			6/19/2009			6/19/2009		
		sys_sample_code	MW-2D_02_07_2008			MW-2D_05_06_2008			MW-2D_08_29_2008			MW-2D_12_22_2008			MW-2D_03_19_2009			BLIND DUPLICATE_03_19_2009			MW-2D_06_19_2009			BLIND DUPLICATE_06_19_2009		
		Sample Type	N			N			N			N			N			FD			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0269			0.011			0.0421			0.0177			0.0406			0.046			0.0431			0.0387		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Acetone	11.5	mg/L	< 0.01	U		0.0407			< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroform	0.08	mg/L	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0265			0.011			0.0414			0.0174			0.04			0.0453			0.0425			0.0382		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.0038			0.0018			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00043	J		< 0.001	U		0.00073	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0073**			**0.012**			**0.0151**			**0.0112**			**0.006**			**0.0069**			0.0042			0.0037		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U	R	< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D		
		Date	9/18/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010			9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011		
		sys_sample_code	MW-2D_09_18_2009			BLIND DUP_09_18_2009			MW-2D_12_23_2009			MW-2D_03_11_2010			MW-2D_06_28_2010			MW-2D_09_10_2010			MW-2D_12_16_2010			MW-2D BAG_04_04_2011			MW-2D BAG_06_07_2011			MW-2D_09_15_2011		
		Sample Type	N			FD			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		0.00059	J		0.0004	J		0.00038	J		0.00041	J		0.00036	J		0.00061	J		0.00071	J		0.00076	J	
1,1-Dichloroethene	0.007	mg/L	0.00105			< 0.001	U		0.0011			0.00049	J		< 0.001	U		< 0.001	U		0.00035	J		0.00082	J		0.00074	J		0.001		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.005	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0389			0.0332			0.0452			0.0233			0.0113			0.0148			0.014			0.0322			0.0329			0.0443		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.05	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.05	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.05	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00024	J		0.00025	J		0.00034	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00023	J	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		0.00038	J		0.00039	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0382			0.0321			0.0443			0.0231			0.011			0.0145			0.0138			0.0317			0.0323			0.0436		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.005	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.00115			0.00091	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00051	J		0.00054	J		0.00069	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.00522**			0.00492			0.0048			**0.0051**			**0.0071**			**0.0072**			0.0048			0.0039			0.0036			0.0037		
Vinyl Chloride	0.002	mg/L	0.00124			0.00105			0.001			0.00057	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		0.00078	J		0.0011		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D		
		Date	12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-2D_12_15_2011			MW-2D_03_14_2012			MW-2D_06_26_2012			MW-2D_10_03_2012			MW-2D_04_23_2013			MW-2D_10_25_2013			MW-2D_04_08_2014			MW-2D_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00064	J		0.00064	J		0.00073	J		0.00072	J		0.00065	J		0.0006	J		0.00039	J		0.00042	J	
1,1-Dichloroethene	0.007	mg/L	0.00078	J		0.00078	J		0.0011			0.0011			0.00099	J		0.00038	J		0.00035	J		0.00058	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0341			0.0345			0.0479			0.0427			0.0473			0.0252			0.0163			0.0252		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.0003	J		0.00023	J		0.00027	J		0.0004	J		0.00028	J		0.00023	J		< 0.001	U		0.00024	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		0.0005	J		< 0.002	U		0.0008	J		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	0.00023	J		< 0.001	U		0.00025	J		0.00029	J		0.00033	J		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0334			0.0339			0.0472			0.0419			0.0466			0.0246			0.0163			0.0246		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00064	J		0.00057	J		0.00071	J		0.00072	J		0.00074	J		0.00058	J		< 0.001	U		0.00052	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0035			0.0025			0.002			0.0021			0.0014			**0.005**			0.0025			0.0014		
Vinyl Chloride	0.002	mg/L	0.00047	J		0.00079	J		0.00093	J		0.00093	J		0.0012			0.00093	J		0.00074	J		0.0016		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S		
		Date	2/7/2008			2/7/2008			5/6/2008			5/6/2008			8/29/2008			8/29/2008			12/22/2008			12/22/2008			3/19/2009		
		sys_sample_code	MW-2S_02_07_2008			BLIND DUPLICATE_02_07_2008			MW-2S_05_06_2008			BLIND DUP_05_06_2008			MW-2S_08_29_2008			BLIND DUP_08_29_2008			MW-2S_12_22_2008			BLIND DUP_12_22_2008			MW-2S_03_19_2009		
		Sample Type	N			FD			N			FD			N			FD			N			FD			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0074			0.0069			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			0.0014			< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0539			0.0498			0.0053			0.0047			0.0027			0.0017			0.0101			0.0103			< 0.001	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R
cis-1,2-Dichloroethene	0.07	mg/L	0.053			0.0491			0.0053			0.0047			0.0027			0.0017			0.0099			0.0101			< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.103**			**0.0947**			**0.0284**			**0.0241**			**0.0192**			**0.0167**			**0.0289**			**0.0289**			**0.0194**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00094	J		0.00079	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0099**			**0.0091**			0.0033			0.0031			0.0037			0.0025			0.0029			0.003			0.0011		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S		
		Date	6/19/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010			9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011		
		sys_sample_code	MW-2S_06_19_2009			MW-2S_09_18_2009			MW-2S_12_23_2009			MW-2S_03_11_2010			MW-2S_06_28_2010			MW-2S_09_10_2010			MW-2S_12_16_2010			MW-2S BAG_04_04_2011			MW-2S BAG_06_07_2011			MW-2S_09_15_2011		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00044	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0003	J		< 0.001	U		0.00033	J		0.00028	J		0.0016		
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		0.0022			0.0018	J		0.0026			0.0023			0.0247		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00069	J	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	< 0.001	U		< 0.001	U		0.00042	J		< 0.001	U		0.00052	J		0.0022			0.0018			0.0026			0.0023			0.0242		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0181**			**0.00646**			**0.007**			0.0041			0.0045			**0.0064**			**0.0073**			**0.0079**			**0.0053**			**0.0217**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00047	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.001			< 0.001	U		0.00058	J		0.00033	J		0.00047	J		0.0013			0.00089	J		0.0013			0.0016			**0.0158**		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S		
		Date	12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-2S_12_15_2011			MW-2S_03_14_2012			MW-2S_06_26_2012			MW-2S_10_03_2012			MW-2S_04_23_2013			MW-2S_10_25_2013			MW-2S_04_08_2014			MW-2S_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00057	J		0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0022			0.0012			0.0012			0.00039	J		0.00035	J		0.00029	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0318			0.0202			0.016			0.0039			0.0051			0.0014	J		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.00076	J		0.0004	J		0.00037	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0311			0.0198			0.016			0.0039			0.0051			0.0014			0.00038	J		0.00048	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0575**			**0.0454**			**0.0464**			**0.0116**			**0.0121**			**0.0051**			0.0024			0.00068	J	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00066	J		0.00041	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0082**			0.0048			**0.0052**			0.0034			0.0033			0.0041			0.0019			0.0024		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			3/11/2010			3/11/2010		
		sys_sample_code	MW-3D_02_07_2008			MW-3D_05_06_2008			MW-3D_08_29_2008			MW-3D_12_22_2008			MW-3D_03_19_2009			MW-3D_06_19_2009			MW-3D_09_18_2009			MW-3D_12_23_2009			MW-3D_03_11_2010			BLIND DUPLICATE_03_11_2010		
		Sample Type	N			N			N			N			N			N			N			N			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			0.0011			< 0.001	U		0.00095	J		0.00048	J		0.00073	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		0.0018			0.0016			0.0017			0.0024			0.0021			< 0.001	U		0.0021			0.00055	J		0.0015		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	UJ	< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			< 0.001	U		0.00044	J	
1,2-Dichloroethene, Total		mg/L	0.0175			0.0631			0.0623			0.0722			0.112			0.116			0.0321			0.0976			0.0307		J	0.0824		J
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	UJ	< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00062	J		< 0.001	U		0.0005	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0016			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0019			< 0.001	U		0.0018			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.0013			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0172			0.0615			0.0611			**0.0708**			**0.11**			**0.113**			0.0314			**0.0946**		J	0.0301		J	**0.0809**		J
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.006**			0.0012			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00032	J		0.0016			0.0012			0.0013			0.0024			0.0027			< 0.001	U		0.003			0.00057	J		0.0015		
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0047			**0.0116**			**0.0095**			**0.0069**			**0.0065**			**0.0061**			0.0034			0.004			0.0023			0.0032		
Vinyl Chloride	0.002	mg/L	< 0.001	U		0.0018			0.0017			**0.0022**			**0.0029**		J	**0.0027**			0.00104			**0.0028**			0.00096	J		**0.0024**		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D		
		Date	6/28/2010			9/10/2010			12/16/2010			4/4/2011			4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012		
		sys_sample_code	MW-3D_06_28_2010			MW-3D_09_10_2010			MW-3D_12_16_2010			MW-3D BAG_04_04_2011			BLIND DUPLICATE_02_04_04_2011			MW-3D PUMP_04_04_2011			MW-3D BAG_06_07_2011			MW-3D PUMP_06_07_2011			MW-3D_09_15_2011			MW-3D_12_15_2011			MW-3D_03_14_2012		
		Sample Type	N			N			N			N			FD			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00062	J		0.00068	J		0.00054	J		0.0004	J		0.00075	J		0.0006	J		0.00065	J		0.00068	J		0.00064	J		0.00046	J		0.00035	J	
1,1-Dichloroethene	0.007	mg/L	0.0011			0.0012			0.0012			0.00059	J		0.0014			0.0011			0.0011			0.0011			0.0014			0.0011			0.00048	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0511			0.0554		J	0.0529			0.0296			0.059			0.0487			0.0573			0.0525			0.0536			0.0457			0.0221		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.00036	J		0.00041	J		0.00026	J		< 0.001	U		0.00041	J		0.00033	J		0.00035	J		0.00034	J		0.00032	J		0.00026	J		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.00053	J	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0498			0.0544		J	0.0521		J	0.0291			0.058			0.0478			0.0564			0.0516			0.0526			0.0448			0.0217		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00035	J		0.00035	J		< 0.001	U		0.00036	J		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0013			0.001			0.00083	J		0.00051	J		0.001			0.00089	J		0.0009	J		0.00087	J		0.00099	J		0.0009	J		0.00043	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0036			0.0037			0.0027			0.0026			**0.005**			0.0041			0.0029			0.0035			0.0034			0.0028			0.0025		
Vinyl Chloride	0.002	mg/L	0.0014			0.0018			0.0015			< 0.001	U		0.0016			0.0012			0.0012			0.0015			0.0016			0.0012			< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D		
		Date	6/26/2012			10/3/2012			10/3/2012			4/23/2013			4/23/2013			10/25/2013			10/25/2013			4/8/2014			4/8/2014			10/21/2014			10/21/2014		
		sys_sample_code	MW-3D_06_26_2012			MW-3D_10_03_2012			BLIND DUP-D_10_03_2012			MW-3D_04_23_2013			BLIND DUP-D_04_23_2013			MW-3D_10_25_2013			BLIND DUP D_10_25_2013			MW-3D_04_08_2014			BLIND DUP-D_04_08_2014			MW-3D_10_21_2014			BLIND DUP-D_10_21_2014		
		Sample Type	N			N			FD			N			FD			N			FD			N			FD			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00067	J		0.00045	J		0.00057	J		0.00055	J		0.0008	J		0.00074	J		0.0006	J	J	0.00069	J		0.00069	J		< 0.001	U		0.00045	J	
1,1-Dichloroethene	0.007	mg/L	0.0015			0.00084	J		0.0011			0.0011			0.0018			0.0014			0.0011		J	0.0016			0.0013			0.00095	J		0.001		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0728			0.037			0.0608			0.0613			0.0875			0.0551			0.0538		J	0.064			0.0631			0.0438			0.0406		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.00035	J		< 0.001	U		< 0.001	U		0.00021	J		0.00031	J		0.00022	J		< 0.001	U		< 0.001	U		0.00031	J		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.00028	J		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	**0.0714**			0.0362			0.0594			0.06			**0.0857**			0.0535			0.0527		J	0.0627			0.0615			0.0429			0.0397		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0015			0.00077	J		0.0014			0.0013			0.0018			0.0015			0.0011		J	0.0013			0.0017			0.00087	J		0.00087	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0029			0.0018			0.0017			0.0017			0.0029			0.0023		J	0.0013			0.0013			0.0015			0.0016		
Vinyl Chloride	0.002	mg/L	**0.002**			0.00074	J		0.0016			0.0014			**0.0021**			0.0011			0.00097	J	J	0.0019			0.0014			< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			12/23/2009			3/11/2010		
		sys_sample_code	MW-3S_02_07_2008			MW-3S_05_06_2008			MW-3S_08_29_2008			MW-3S_12_22_2008			MW-3S_03_19_2009			MW-3S_06_19_2009			MW-3S_09_18_2009			MW-3S_12_23_2009			BLIND DUP_12_23_2009			MW-3S_03_11_2010		
		Sample Type	N			N			N			N			N			N			N			N			FD			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00033	J		< 0.001	U		0.00031	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0053			0.0074			0.0058			0.0028			0.0015			0.001			< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0053			0.0074			0.0058			0.0028			0.0015			0.001			< 0.001	U		0.00028	J		0.00029	J		< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0501**			**0.0193**			**0.0119**			**0.011**			**0.0165**			**0.0072**			0.00383			**0.017**			**0.0145**			**0.0158**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0165**			**0.0156**			**0.0168**			**0.014**			**0.012**			**0.0071**			0.00478			0.0049			0.0045			0.0044		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	6/28/2010			6/28/2010			9/10/2010			9/10/2010			12/16/2010			12/16/2010			4/4/2011			4/4/2011			6/7/2011			6/7/2011		
		sys_sample_code	MW-3S_06_28_2010			BLIND DUPLICATE_06_28_2010			MW-3S_09_10_2010			BLIND DUPLICATE_09_10_2010			MW-3S_12_16_2010			BLIND DUP_12_16_2010			MW-3S BAG_04_04_2011			MW-3S PUMP_04_04_2011			MW-3S BAG_06_07_2011			MW-3S PUMP_06_07_2011		
		Sample Type	N			FD			N			FD			N			FD			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		0.00065	J		0.00055	J		0.00031	J		0.0003	J		0.0003	J		< 0.001	U		0.00033	J		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00028	J		0.00031	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00025	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0013	J		0.0012	J		0.0016	J		0.0014	J		< 0.002	U		< 0.002	U		0.0024			0.0079			0.0037			0.0122		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0013			0.0012			0.0016			0.0014			0.00054	J		0.00055	J		0.0024			0.0079			0.0037		J	0.0122		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0111**			**0.0102**			**0.0319**			**0.0248**			**0.0146**			**0.0135**			**0.0149**			**0.0072**			**0.0162**			**0.0062**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00024	J		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0056**			**0.0053**			**0.0068**			**0.0059**			0.0041			0.004			**0.0063**			**0.0059**			**0.0065**			**0.0059**		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	9/15/2011			12/15/2011			12/15/2011			3/14/2012			3/14/2012			6/26/2012			6/26/2012			10/3/2012			10/3/2012			4/23/2013		
		sys_sample_code	MW-3S_09_15_2011			MW-3S_12_15_2011			BLIND DUPLICATE_12_15_2011			MW-3S_03_14_2012			BLIND DUPLICATE_03_14_2012			MW-3S_06_26_2012			BLIND DUP_06_26_2012			MW-3S_10_03_2012			BLIND DUP-S_10_03_2012			MW-3S_04_23_2013		
		Sample Type	N			N			FD			N			FD			N			FD			N			FD			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00068	J		0.00082	J		0.0008	J		0.00084	J		0.00092	J		0.0004	J		< 0.001	U		0.00054	J		< 0.001	U		0.00083	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00039	J		0.00048	J		0.00045	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.006			0.0051			0.0047			0.0026			0.0024			0.0014	J		0.002			0.0026			0.0024			0.0023		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.006			0.0051			0.0047			0.0026			0.0024			0.0014			0.002			0.0026			0.0024			0.0023		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0243**			**0.0283**			**0.0284**			**0.0267**			**0.0279**			**0.0121**			**0.0083**			**0.0233**			**0.0209**			**0.0379**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.008**			**0.0072**			**0.0065**			**0.0055**			**0.0056**			**0.0054**			**0.005**			0.0049			0.0047			0.0031		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	4/23/2013			10/25/2013			10/25/2013			4/8/2014			4/8/2014			10/21/2014			10/21/2014		
		sys_sample_code	BLIND DUP-S_04_23_2013			MW-3S_10_25_2013			BLIND DUP S_10_25_2013			MW-3S_04_08_2014			BLIND DUP-S_04_08_2014			MW-3S_10_21_2014			BLIND DUP-S_10_21_2014		
		Sample Type	FD			N			FD			N			FD			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00083	J		0.00057	J		0.0004	J	J	< 0.001	U		0.00068	J		0.00059	J		0.00069	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00032	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0022			0.0016	J		0.0012	J	J	0.00087	J		0.0013	J		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0022			0.0016			0.0012		J	0.00087	J		0.0013			0.00044	J		< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0378**			**0.0113**			**0.0106**		J	**0.0217**			**0.0242**			**0.0193**			**0.0211**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.003			0.0019			0.0016		J	0.0014			0.0015			0.002			0.0015		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-4D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D		
		Date	4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-4D BAG_04_04_2011			MW-4D BAG_06_07_2011			MW-4D_09_15_2011			MW-4D_12_15_2011			MW-4D_03_14_2012			MW-4D_06_26_2012			MW-4D_10_03_2012			MW-4D_04_23_2013			MW-4D_10_25_2013			MW-4D_04_08_2014			MW-4D_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00041	J		0.00077	J		0.00085	J		0.00068	J		0.00064	J		< 0.001	U		0.00081	J		0.00081	J		0.00097	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	0.00051	J		0.00085	J		0.00085	J		0.00064	J		0.00051	J		0.00054	J		0.00059	J		0.00045	J		0.00065	J		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0204			0.0359			0.032			0.023			0.0183			0.0201			0.0197			0.0147			0.0185			0.0136			0.0111		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		0.00029	J		0.00026	J		0.00024	J		< 0.001	U		0.00025	J		0.00026	J		< 0.001	U		0.00031	J		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0016			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	0.00042	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		0.00033	J		0.0003	J		0.00027	J		< 0.001	U		0.00021	J		0.00026	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0019			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.0013			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0201			0.0354			0.0315			0.0226			0.0179			0.0201			0.0192			0.0143			0.0181			0.0136			0.0111		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00069	J		< 0.001	U		0.00026	J		< 0.001	U		0.00059	J		< 0.001	U		< 0.001	U		0.0004	J		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.00057	J		0.00048	J		0.0004	J		< 0.001	U		< 0.001	U		0.00046	J		0.00033	J		0.00045	J		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0032			0.0032			0.0027			0.0023			0.0028			0.0029			0.0023			0.0024			0.0017			0.0019		
Vinyl Chloride	0.002	mg/L	0.00044	J		0.001			0.00077	J		0.00049	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-4S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S		
		Date	4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-4S PUMP_04_04_2011			MW-4S BAG_06_07_2011			MW-4S_09_15_2011			MW-4S_12_15_2011			MW-4S_03_14_2012			MW-4S_06_26_2012			MW-4S_10_03_2012			MW-4S_04_23_2013			MW-4S_10_25_2013			MW-4S_04_08_2014			MW-4S_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00049	J		0.00029	J		0.00032	J		< 0.001	U		0.00027	J		< 0.001	U		0.00022	J		0.00023	J		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0044			0.00081	J		0.00091	J		0.00079	J		0.001	J		0.00082	J		0.0015	J		0.00053	J		0.00046	J		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		0.00052	J		0.00029	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	J	U	0.00029	J		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0044			0.00081	J		0.00091	J		0.00079	J		0.001			0.00082	J		0.0015			0.00053	J		0.00046	J		< 0.001	U		< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00065	J		0.0045			0.0049			0.0013			0.0011			0.0032			0.0011			0.0026			0.0026			0.0011			0.001		
Toluene	1	mg/L	0.0002	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0019			0.00081	J		0.0011			0.00058	J		0.0007	J		0.00066	J		0.0008	J		0.00064	J		0.0004	J		0.00044	J		< 0.001	U	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D		
		Date	4/4/2011			4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012		
		sys_sample_code	MW-5D BAG_04_04_2011			BLIND DUPLICATE_01_04_04_2011			MW-5D PUMP_04_04_2011			MW-5D BAG_06_07_2011			MW-5D PUMP_06_07_2011			MW-5D_09_15_2011			MW-5D_12_15_2011			MW-5D_03_14_2012			MW-5D_06_26_2012		
		Sample Type	N			FD			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00044	J		0.00051	J		0.0011			0.00052	J		0.0015			0.00089	J		0.00084	J		0.00064	J		0.0007	J	
1,1-Dichloroethene	0.007	mg/L	0.0013			0.0014			0.0025			0.001			0.0033			0.002			0.0021			0.001			0.0018		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0357			0.0395			0.0838			0.0395			0.0807			0.0631			0.0622			0.0369			0.0641		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		1.51			0.0213	J		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		0.00025	J		< 0.001	U		0.00036	J		< 0.001	U		0.00024	J		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0015			0.0014			< 0.001	U		0.0011			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	0.00043	J		0.00038	J		< 0.001	U		0.00032	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.00088	J		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0016			0.0015			< 0.001	U		0.0011			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.0013			0.0012			< 0.001	U		0.001			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0351			0.0389			**0.0824**			0.0389			0.0795			0.0622			0.0613			0.0365			0.0632		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00066	J		0.00059	J		0.00037	J		0.00071	J		0.00033	J		0.00045	J		0.00035	J		0.00027	J		0.00041	J	
Toluene	1	mg/L	0.00026	J		0.00025	J		0.00055	J		0.00027	J		0.00048	J		< 0.001	U		0.0002	J		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00059	J		0.00062	J		0.0013			0.00069	J		0.0018			0.00099	J		0.00091	J		0.00041	J		0.00097	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0126**			**0.0133**			**0.0173**			**0.01**			**0.023**			**0.0172**			**0.016**			**0.0094**			**0.0166**		
Vinyl Chloride	0.002	mg/L	0.001			0.0011			0.0023			0.0011			0.0036			0.0017			0.0017			0.0004	J		0.0014		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
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Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5D			MW-5D			MW-5D			MW-5D			MW-5D		
		Date	10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-5D_10_03_2012			MW-5D_04_23_2013			MW-5D_10_25_2013			MW-5D_04_08_2014			MW-5D_10_21_2014		
		Sample Type	N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0007	J		0.00064	J		0.00041	J	J	0.00045	J		0.00032	J	
1,1-Dichloroethene	0.007	mg/L	0.0019			0.0014			0.0011		J	0.0012			0.00095	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0578			0.0582			0.038		J	0.04			0.0333		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	0.00024	J		0.00028	J		0.0002	J	J	0.00025	J		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0569			0.057			0.037		J	0.039			0.0325		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00067	J		0.0005	J		0.0007	J	J	0.00068	J		0.00064	J	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00098	J		0.0012			0.001		J	0.00097	J		0.00084	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0167**			**0.0137**			**0.0146**		J	**0.0146**			**0.0136**		
Vinyl Chloride	0.002	mg/L	0.0013			0.0012			0.00081	J	J	0.00076	J		0.00074	J	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S		
		Date	4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012		
		sys_sample_code	MW-5S BAG_04_04_2011			MW-5S PUMP_04_04_2011			MW-5S BAG_06_07_2011			MW-5S PUMP_06_07_2011			MW-5S_09_15_2011			MW-5S_12_15_2011			MW-5S_03_14_2012			MW-5S_06_26_2012			MW-5S_10_03_2012		
		Sample Type	N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00036	J		0.00037	J		0.00046	J		0.00027	J		< 0.001	U		< 0.001	U		0.00029	J		< 0.001	U		0.00034	J	
1,1-Dichloroethene	0.007	mg/L	0.00086	J		0.00057	J		0.00083	J		0.00055	J		< 0.001	U		< 0.001	U		0.00061	J		0.00058	J		0.00056	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0233			0.0195			0.0299			0.0206			0.0047			0.0025			0.0194			0.0183			0.0197		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0227			0.0189			0.0291			0.02			0.0047			0.0025			0.0189			0.0183			0.0193		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0279**			**0.0361**			**0.018**			**0.0187**			**0.0122**			**0.0161**			**0.0072**			**0.0056**			**0.0064**		
Toluene	1	mg/L	< 0.001	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00062	J		0.00059	J		0.00079	J		0.00056	J		< 0.001	U		< 0.001	U		0.00046	J		< 0.001	U		0.00043	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0317**			**0.0225**			**0.0314**			**0.0215**			**0.0075**			0.0037			**0.0148**			**0.0148**			**0.0149**		
Vinyl Chloride	0.002	mg/L	0.00064	J		0.00042	J		0.00086	J		0.00058	J		< 0.001	U		< 0.001	U		0.00036	J		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5S			MW-5S			MW-5S			MW-5S		
		Date	4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-5S_04_23_2013			MW-5S_10_25_2013			MW-5S_04_08_2014			MW-5S_10_21_2014		
		Sample Type	N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00033	J		< 0.001	U		0.00032	J		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	0.0007	J		0.00036	J	J	0.00065	J		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0231			0.0097		J	0.0239			0.0017	J	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0225			0.0094		J	0.0232			0.0017		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.0044			0.0049		J	0.0046			0.0043		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00055	J		0.00026	J	J	0.00063	J		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0143**			**0.0081**		J	**0.0183**			0.0038		
Vinyl Chloride	0.002	mg/L	0.00061	J		< 0.001	U		0.00052	J		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D		
		Date	4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012		
		sys_sample_code	MW-6D BAG_04_04_2011			MW-6D PUMP_04_04_2011			MW-6D BAG_06_07_2011			MW-6D_06_07_2011			MW-6D_09_15_2011			MW-6D_12_15_2011			MW-6D_03_14_2012			MW-6D_06_26_2012			MW-6D_10_03_2012		
		Sample Type	N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00064	J		0.00087	J		0.00091	J		0.00095	J		0.001			0.00096	J		0.00082	J		0.00068	J		0.0006	J	
1,1-Dichloroethene	0.007	mg/L	0.0012		J	0.0017			0.0021			0.0021			0.0023			0.0026			0.0022			0.0018			< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.049		J	0.0666			0.0859			0.0802		J	0.0814			0.0855			0.0776			0.0683			0.0674		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.00028	J		0.0003	J		0.0004	J		< 0.001	U		0.0003	J		0.00029	J		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.00035	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0483		J	0.0655			**0.0847**			**0.0788**		J	**0.08**			**0.0841**			**0.0763**			0.0671			0.0658		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00072	J		0.00084	J		0.00065	J		0.00081	J		< 0.001	U		0.00044	J		0.00056	J		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	0.00024	J		0.00026	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00077	J		0.0011			0.0012			0.0014			0.0013			0.0014			0.0013			0.0012			0.0016		
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0108**		J	**0.014**			**0.0172**			**0.0173**			**0.0166**			**0.0178**			**0.0164**			**0.0167**			**0.0163**		
Vinyl Chloride	0.002	mg/L	0.0015			0.0019			**0.0021**			**0.0025**			0.0018			**0.0024**			0.0019			0.0017			0.0017		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6D			MW-6D			MW-6D			MW-6D		
		Date	4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-6D_04_23_2013			MW-6D_10_25_2013			MW-6D_04_08_2014			MW-6D_10_21_2014		
		Sample Type	N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0007	J		0.00058	J	J	0.00065	J		0.00057	J	
1,1-Dichloroethene	0.007	mg/L	0.0019			0.0015		J	0.0017			0.0013		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0771			0.0547		J	0.0632			0.05		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		0.00025	J		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		0.00026	J		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		0.0006	J		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	**0.0756**			0.0536		J	0.0619			0.0491		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00042	J		0.00047	J	J	< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0015			0.0011		J	0.0013			0.00091	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0181**			**0.0128**		J	**0.0085**			**0.0116**		
Vinyl Chloride	0.002	mg/L	0.0016			0.00069	J	J	0.0014			0.0012		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S		
		Date	4/4/2011			4/4/2011			6/7/2011			6/7/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011		
		sys_sample_code	MW-6S BAG_04_04_2011			MW-6S PUMP_04_04_2011			MW-6S BAG_06_07_2011			BLIND DUPLICATE BAG_06_07_2011			MW-6S_06_07_2011			BLIND DUPLICATE_06_07_2011			MW-6S_09_15_2011			MW-6S_12_15_2011		
		Sample Type	N			N			N			FD			N			FD			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00045	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00032	J		0.00035	J		0.00042	J		0.00036	J		0.00043	J		0.00042	J		0.00037	J		0.0004	J	
1,1-Dichloroethene	0.007	mg/L	0.00028	J		0.00042	J		0.00068	J		0.00069	J		0.00056	J		0.00061	J		0.00054	J		0.00056	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0235			0.0295			0.0344			0.0338			0.0318			0.0319			0.0246			0.0353		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	0.0028	J		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0232			0.0291			0.0338			0.0333			0.0312			0.0314			0.0242			0.0347		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0225**			**0.0266**			**0.0101**			**0.0102**			**0.0247**			**0.025**			**0.0216**			**0.0794**		
Toluene	1	mg/L	< 0.001	U		0.00031	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.0004	J		0.00054	J		0.00049	J		0.00056	J		0.00054	J		0.00037	J		0.00055	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0115**			**0.0134**			**0.0169**			**0.0165**			**0.0147**			**0.0156**			**0.015**			**0.0221**		
Vinyl Chloride	0.002	mg/L	**0.0029**			**0.0027**			0.00078	J		0.00069	J		0.0009	J		0.00085	J		0.00041	J		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S		
		Date	3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-6S_03_14_2012			MW-6S_06_26_2012			MW-6S_10_03_2012			MW-6S_04_23_2013			MW-6S_10_25_2013			MW-6S_04_08_2014			MW-6S_10_21_2014		
		Sample Type	N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00043	J		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00027	J		< 0.002	U		< 0.002	U		0.00029	J		0.00024	J	J	0.00042	J		0.0004	J	
1,1-Dichloroethene	0.007	mg/L	0.0005	J		< 0.002	U		< 0.002	U		0.00047	J		0.00034	J	J	0.00065	J		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0299			0.0239			0.0547			0.0266			0.0244		J	0.041			0.04		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.02	U		< 0.02	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.05	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0292			0.0239			0.0547			0.0258			0.0238		J	0.0401			0.0389		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		**0.0066**	J		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.006	U		< 0.006	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.181**			**0.134**			**0.0682**			**0.0694**			**0.0363**		J	**0.0442**			**0.0315**		
Toluene	1	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00072	J		< 0.002	U		< 0.002	U		0.00082	J		0.00058	J	J	0.00092	J		0.0011		
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0263**			**0.0198**			**0.0181**			**0.0188**			**0.0148**		J	**0.0128**			**0.0136**		
Vinyl Chloride	0.002	mg/L	0.00058	J		0.0011	J		**0.0038**			0.00056	J		< 0.001	U		0.00067	J		0.0012		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.006	U		< 0.006	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-PZ-3
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	PZ-3			PZ-3			PZ-3			PZ-3			PZ-3			PZ-3			PZ-3			PZ-3		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009		
		sys_sample_code	PZ-3_02_07_2008			PZ-3_05_06_2008			PZ-3_08_29_2008			PZ-3_12_22_2008			PZ-3_03_19_2009			PZ-3_06_19_2009			PZ-3_09_18_2009			PZ-3_12_23_2009		
		Sample Type	N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0014			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0079			0.0036			0.0024			< 0.001	U		0.0012			< 0.001	U		< 0.001	U		0.0009	J	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		0.0102			< 0.05	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			0.0017			0.0011			< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0076			0.0036			0.0024			< 0.001	U		0.0012			< 0.001	U		< 0.001	U		0.0009	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.117**			**0.0734**			**0.0209**			**0.0252**			**0.0127**			0.0026			**0.00702**			0.0016		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0081**			0.0044			0.0019			0.0015			0.0011			< 0.001	U		< 0.001	U		0.0006	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-PZ-3
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	PZ-3			PZ-3			PZ-3			PZ-3		
		Date	3/11/2010			6/28/2010			9/10/2010			12/16/2010		
		sys_sample_code	PZ-3_03_11_2010			PZ-3_06_28_2010			PZ-3_09_10_2010			PZ-3_12_16_2010		
		Sample Type	N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00037	J		< 0.001	U		0.00071	J		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	< 0.002	U		< 0.002	U		0.0023			< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		0.0946			< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00028	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00079	J	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.00064	J		0.00065	J		0.0023			0.00048	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0232**			**0.0122**			**0.0487**			**0.022**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0023			0.0013			0.0048			0.0015		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

Prepared by: DJD
Checked by: RMK

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L									mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-1D	2/7/2008	MW-1D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0158			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		0.0012			< 0.001	U		< 0.005	U	
	5/6/2008	MW-1D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0091			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-1D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0233			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-1D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0187			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-1D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0311			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-1D_06_19_2009	N	< 0.001	U		< 0.001	U		0.0018			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-1D_09_18_2009	N	< 0.001	U		< 0.001	U		0.00125			< 0.001	U		0.0392			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-1D_12_23_2009	N	< 0.001	U		0.00062	J		0.0013			< 0.001	U		0.0466			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-1D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0103			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-1D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0113			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-1D_09_10_2010	N	< 0.001	U		0.00023	J		< 0.001	U		< 0.001	U		0.0142			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-1D_12_16_2010	N	< 0.001	U		0.00064	J		0.00062	J		< 0.001	U		0.027			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-1D BAG_04_04_2011	N	< 0.001	U		0.00031	J		0.00025	J		< 0.001	U		0.0114			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-1D BAG_06_07_2011	N	< 0.001	U		0.00041	J		< 0.001	U		< 0.001	U		0.0105			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-1D_09_15_2011	N	< 0.001	U		0.00059	J		0.00044	J		< 0.001	U		0.0169			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-1D_12_15_2011	N	< 0.001	U		0.0005	J		0.00032	J		< 0.001	U		0.0136			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-1D_03_14_2012	N	< 0.001	U		0.00042	J		0.00032	J		< 0.001	U		0.0142			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-1D_06_26_2012	N	< 0.001	U		0.00047	J		< 0.001	U		< 0.001	U		0.0131			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-1D_10_03_2012	N	< 0.001	U		0.0006	J		0.00038	J		< 0.001	U		0.0166			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-1D_04_23_2013	N	< 0.001	U		0.00062	J		0.00043	J		< 0.001	U		0.0189			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-1D_10_25_2013	N	< 0.001	U		0.00057	J		0.00046	J		< 0.001	U		0.0141			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-1D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-1D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0036			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-1S	2/7/2008	MW-1S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-1S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0063			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-1S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-1S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			0.0016			< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-1S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0083			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-1S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-1S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-1S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-1S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0032			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-1S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-1S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-1S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-1S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0032			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-1S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-1S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-1S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-1S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-1S_06_26_2012	N	< 0.001	U		0.00027	J		< 0.001	U		< 0.001	U		0.0015	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-1S_10_03_2012	N	< 0.001	U		0.00043	J		< 0.001	U		< 0.001	U		0.0016	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-1S_04_23_2013	N	< 0.001	U		0.00038	J		< 0.001	U		< 0.001	U		0.002			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-1S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-1S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-1S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-2D	2/7/2008	MW-2D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0269			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-2D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.011			< 0.001	U		< 0.001	U		< 0.01	U		0.0407			< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-2D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0421			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-2D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0177			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-2D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0406			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	BLIND DUPLICATE_03_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.046			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-2D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0431			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	BLIND DUPLICATE_06_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0387			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-2D_09_18_2009	N	< 0.001	U		< 0.001	U		0.00105			< 0.001	U		0.0389			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	9/18/2009	BLIND DUP_09_18_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0332			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-2D_12_23_2009	N	< 0.001	U		0.00059	J		0.0011			< 0.001	U		0.0452			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-2D_03_11_2010	N	< 0.001	U		0.0004	J		0.00049	J		< 0.001	U		0.0233			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-2D_06_28_2010	N	< 0.001	U		0.00038	J		< 0.001	U		< 0.001	U		0.0113			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-2D_09_10_2010	N	< 0.001	U		0.00041	J		< 0.001	U		< 0.001	U		0.0148			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-2D_12_16_2010	N	< 0.001	U		0.00036	J		0.00035	J		< 0.001	U		0.014			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-2D BAG_04_04_2011	N	< 0.001	U		0.00061	J		0.00082	J		< 0.001	U		0.0322			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-2D BAG_06_07_2011	N	< 0.001	U		0.00071	J		0.00074	J		< 0.001	U		0.0329			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-2D_09_15_2011	N	< 0.001	U		0.00076	J		0.001			< 0.001	U		0.0443			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00034	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-2D_12_15_2011	N	< 0.001	U		0.00064	J		0.00078	J		< 0.001	U		0.0341			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0003	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-2D_03_14_2012	N	< 0.001	U		0.00064	J		0.00078	J		< 0.001	U		0.0345			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-2D_06_26_2012	N	< 0.001	U		0.00073	J		0.0011			< 0.001	U		0.0479			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00027	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-2D_10_03_2012	N	< 0.001	U		0.00072	J		0.0011			< 0.001	U		0.0427			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0004	J		< 0.001	U		< 0.001	U		0.0005	J	
	4/23/2013	MW-2D_04_23_2013	N	< 0.001	U		0.00065	J		0.00099	J		< 0.001	U		0.0473			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-2D_10_25_2013	N	< 0.001	U		0.0006	J		0.00038	J		< 0.001	U		0.0252			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		0.0008	J	
	4/8/2014	MW-2D_04_08_2014	N	< 0.001	U		0.00039	J		0.00035	J		< 0.001	U		0.0163			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-2D_10_21_2014	N	< 0.001	U		0.00042	J		0.00058	J		< 0.001	U		0.0252			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-2S	2/7/2008	MW-2S_02_07_2008	N	< 0.001	U		0.0074			< 0.001	U		< 0.001	U		0.0539			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	2/7/2008	BLIND DUPLICATE_02_07_2008	FD	< 0.001	U		0.0069			< 0.001	U		< 0.001	U		0.0498			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-2S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	BLIND DUP_05_06_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-2S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0027			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	BLIND DUP_08_29_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-2S_12_22_2008	N	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		0.0101			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	BLIND DUP_12_22_2008	FD	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		0.0103			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-2S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-2S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-2S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-2S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-2S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-2S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-2S_09_10_2010	N	< 0.001	U		0.0003	J		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-2S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-2S BAG_04_04_2011	N	< 0.001	U		0.00033	J		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-2S BAG_06_07_2011	N	< 0.001	U		0.00028	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-2S_09_15_2011	N	0.00044	J		0.0016			< 0.001	U		< 0.001	U		0.0247			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-2S_12_15_2011	N	0.00057	J		0.0022			< 0.001	U		< 0.001	U		0.0318			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-2S_03_14_2012	N	0.0003	J		0.0012			< 0.001	U		< 0.001	U		0.0202			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-2S_06_26_2012	N	< 0.001	U		0.0012			< 0.001	U		< 0.001	U		0.016			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-2S_10_03_2012	N	< 0.001	U		0.00039	J		< 0.001	U		< 0.001	U		0.0039			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-2S_04_23_2013	N	< 0.001	U		0.00035	J		< 0.001	U		< 0.001	U		0.0051			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-2S_10_25_2013	N	< 0.001	U		0.00029	J		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-2S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-2S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-3D	2/7/2008	MW-3D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0175			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		0.0016			< 0.001	U		< 0.005	U	
	5/6/2008	MW-3D_05_06_2008	N	< 0.001	U		< 0.001	U		0.0018			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-3D_08_29_2008	N	< 0.001	U		< 0.001	U		0.0016			< 0.001	U		0.0623			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-3D_12_22_2008	N	< 0.001	U		< 0.001	U		0.0017			< 0.001	U		0.0722			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-3D_03_19_2009	N	< 0.001	U		0.0012			0.0024			< 0.001	U		0.112			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-3D_06_19_2009	N	< 0.001	U		0.0011			0.0021			< 0.001	U		0.116			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-3D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0321			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-3D_12_23_2009	N	< 0.001	U		0.00095	J		0.0021			0.0012			0.0976			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00062	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-3D_03_11_2010	N	< 0.001	U		0.00048	J		0.00055	J		< 0.001	U		0.0307		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	BLIND DUPLICATE_03_11_2010	FD	< 0.001	U		0.00073	J		0.0015			0.00044	J		0.0824		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0005	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-3D_06_28_2010	N	< 0.001	U		0.00062	J		0.0011			< 0.001	U		0.0511			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00036	J		< 0.001	U		< 0.001	U	UJ	< 0.002	U	
	9/10/2010	MW-3D_09_10_2010	N	< 0.001	U		0.00068	J		0.0012			< 0.001	U		0.0554		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00041	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-3D_12_16_2010	N	< 0.001	U		0.00054	J		0.0012			< 0.001	U		0.0529			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3D BAG_04_04_2011	N	< 0.001	U		0.0004	J		0.00059	J		< 0.001	U		0.0296			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	BLIND DUPLICATE_02_04_04_2011	FD	< 0.001	U		0.00075	J		0.0014			< 0.001	U		0.059			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00041	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3D PUMP_04_04_2011	N	< 0.001	U		0.0006	J		0.0011			< 0.001	U		0.0487			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00033	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3D BAG_06_07_2011	N	< 0.001	U		0.00065	J		0.0011			< 0.001	U		0.0573			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00035	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3D PUMP_06_07_2011	N	< 0.001	U		0.00068	J		0.0011			< 0.001	U		0.0525			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00034	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-3D_09_15_2011	N	< 0.001	U		0.00064	J		0.0014			< 0.001	U		0.0536			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00032	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-3D_12_15_2011	N	< 0.001	U		0.00046	J		0.0011			< 0.001	U		0.0457			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-3D_03_14_2012	N	< 0.001	U		0.00035	J		0.00048	J		< 0.001	U		0.0221			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-3D_06_26_2012	N	< 0.001	U		0.00067	J		0.0015			< 0.001	U		0.0728			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00035	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-3D_10_03_2012	N	< 0.001	U		0.00045	J		0.00084	J		< 0.001	U		0.037			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	BLIND DUP-D_10_03_2012	FD	< 0.001	U		0.00057	J		0.0011			< 0.001	U		0.0608			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-3D_04_23_2013	N	< 0.001	U		0.00055	J		0.0011			< 0.001	U		0.0613			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00021	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	BLIND DUP-D_04_23_2013	FD	< 0.001	U		0.0008	J		0.0018			< 0.001	U		0.0875			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00031	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-3D_10_25_2013	N	< 0.001	U		0.00074	J		0.0014			< 0.001	U		0.0551			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	BLIND DUP D_10_25_2013	FD	< 0.001	U		0.0006	J	J	0.0011		J	< 0.001	U		0.0538		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-3D_04_08_2014	N	< 0.001	U		0.00069	J		0.0016			< 0.001	U		0.064			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	BLIND DUP-D_04_08_2014	FD	< 0.001	U		0.00069	J		0.0013			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00031	J		< 0.001	U		< 0.001	U		0.00028	J	
	10/21/2014	MW-3D_10_21_2014	N	< 0.001	U		< 0.001	U		0.00095	J		< 0.001	U		0.0438			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	BLIND DUP-D_10_21_2014	FD	< 0.001	U		0.00045	J		0.001			< 0.001	U		0.0406			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L									mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-3S	2/7/2008	MW-3S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-3S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0074			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-3S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0058			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-3S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0028			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-3S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-3S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-3S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-3S_12_23_2009	N	0.00033	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/23/2009	BLIND DUP_12_23_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-3S_03_11_2010	N	0.00031	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-3S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	BLIND DUPLICATE_06_28_2010	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-3S_09_10_2010	N	0.00065	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0016	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	BLIND DUPLICATE_09_10_2010	FD	0.00055	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-3S_12_16_2010	N	0.00031	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	BLIND DUP_12_16_2010	FD	0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3S BAG_04_04_2011	N	0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0079			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3S BAG_06_07_2011	N	0.00033	J		0.00028	J		< 0.001	U		< 0.001	U		0.0037			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3S PUMP_06_07_2011	N	< 0.001	U		0.00031	J		0.00025	J		< 0.001	U		0.0122			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-3S_09_15_2011	N	0.00068	J		0.00039	J		< 0.001	U		< 0.001	U		0.006			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-3S_12_15_2011	N	0.00082	J		0.00048	J		< 0.001	U		< 0.001	U		0.0051			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	BLIND DUPLICATE_12_15_2011	FD	0.0008	J		0.00045	J		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-3S_03_14_2012	N	0.00084	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	BLIND DUPLICATE_03_14_2012	FD	0.00092	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-3S_06_26_2012	N	0.0004	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	BLIND DUP_06_26_2012	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.002			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-3S_10_03_2012	N	0.00054	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	BLIND DUP-S_10_03_2012	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-3S_04_23_2013	N	0.00083	J		0.00027	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	BLIND DUP-S_04_23_2013	FD	0.00083	J		0.00032	J		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-3S_10_25_2013	N	0.00057	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0016	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	BLIND DUP S_10_25_2013	FD	0.0004	J	J	< 0.001	U		< 0.001	U		< 0.001	U		0.0012	J	J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-3S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00087	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	BLIND DUP-S_04_08_2014	FD	0.00068	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0013	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-3S_10_21_2014	N	0.00059	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	BLIND DUP-S_10_21_2014	FD	0.00069	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-4D	4/4/2011	MW-4D BAG_04_04_2011	N	< 0.001	U		0.00041	J		0.00051	J		< 0.001	U		0.0204			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		0.0016			0.00042	J		< 0.002	U	
	6/7/2011	MW-4D BAG_06_07_2011	N	< 0.001	U		0.00077	J		0.00085	J		< 0.001	U		0.0359			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00029	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-4D_09_15_2011	N	< 0.001	U		0.00085	J		0.00085	J		< 0.001	U		0.032			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-4D_12_15_2011	N	< 0.001	U		0.00068	J		0.00064	J		< 0.001	U		0.023			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-4D_03_14_2012	N	< 0.001	U		0.00064	J		0.00051	J		< 0.001	U		0.0183			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-4D_06_26_2012	N	< 0.001	U		< 0.001	U		0.00054	J		< 0.001	U		0.0201			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-4D_10_03_2012	N	< 0.001	U		0.00081	J		0.00059	J		< 0.001	U		0.0197			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-4D_04_23_2013	N	< 0.001	U		0.00081	J		0.00045	J		< 0.001	U		0.0147			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-4D_10_25_2013	N	< 0.001	U		0.00097	J		0.00065	J		< 0.001	U		0.0185			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00031	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-4D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0136			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-4D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0111			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-4S	4/4/2011	MW-4S PUMP_04_04_2011	N	< 0.001	U		0.00049	J		< 0.001	U		< 0.001	U		0.0044			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-4S BAG_06_07_2011	N	< 0.001	U		0.00029	J		< 0.001	U		< 0.001	U		0.00081	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-4S_09_15_2011	N	< 0.001	U		0.00032	J		< 0.001	U		< 0.001	U		0.00091	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-4S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00079	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-4S_03_14_2012	N	< 0.001	U		0.00027	J		< 0.001	U		< 0.001	U		0.001	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-4S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00082	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-4S_10_03_2012	N	< 0.001	U		0.00022	J		< 0.001	U		< 0.001	U		0.0015	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-4S_04_23_2013	N	< 0.001	U		0.00023	J		< 0.001	U		< 0.001	U		0.00053	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-4S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00046	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-4S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-4S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-5D	4/4/2011	MW-5D BAG_04_04_2011	N	< 0.001	U		0.00044	J		0.0013			< 0.001	U		0.0357			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		0.0015			0.00043	J		< 0.002	U	
	4/4/2011	BLIND DUPLICATE_01_04_04_2011	FD	< 0.001	U		0.00051	J		0.0014			< 0.001	U		0.0395			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		0.0014			0.00038	J		< 0.002	U	
	4/4/2011	MW-5D PUMP_04_04_2011	N	< 0.001	U		0.0011			0.0025			< 0.001	U		0.0838			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-5D BAG_06_07_2011	N	< 0.001	U		0.00052	J		0.001			< 0.001	U		0.0395			< 0.001	U		< 0.001	U		< 0.005	U		1.51			< 0.001	U		0.0011			0.00032	J		< 0.002	U	
	6/7/2011	MW-5D PUMP_06_07_2011	N	< 0.001	U		0.0015			0.0033			< 0.001	U		0.0807			< 0.001	U		< 0.001	U		< 0.005	U		0.0213	J		0.00036	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-5D_09_15_2011	N	< 0.001	U		0.00089	J		0.002			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-5D_12_15_2011	N	< 0.001	U		0.00084	J		0.0021			< 0.001	U		0.0622			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		0.00088	J	
	3/14/2012	MW-5D_03_14_2012	N	< 0.001	U		0.00064	J		0.001			< 0.001	U		0.0369			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-5D_06_26_2012	N	< 0.001	U		0.0007	J		0.0018			< 0.001	U		0.0641			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-5D_10_03_2012	N	< 0.001	U		0.0007	J		0.0019			< 0.001	U		0.0578			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-5D_04_23_2013	N	< 0.001	U		0.00064	J		0.0014			< 0.001	U		0.0582			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-5D_10_25_2013	N	< 0.001	U		0.00041	J	J	0.0011		J	< 0.001	U		0.038		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-5D_04_08_2014	N	< 0.001	U		0.00045	J		0.0012			< 0.001	U		0.04			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-5D_10_21_2014	N	< 0.001	U		0.00032	J		0.00095	J		< 0.001	U		0.0333			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-5S	4/4/2011	MW-5S BAG_04_04_2011	N	< 0.001	U		0.00036	J		0.00086	J		< 0.001	U		0.0233			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-5S PUMP_04_04_2011	N	< 0.001	U		0.00037	J		0.00057	J		< 0.001	U		0.0195			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-5S BAG_06_07_2011	N	< 0.001	U		0.00046	J		0.00083	J		< 0.001	U		0.0299			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-5S PUMP_06_07_2011	N	< 0.001	U		0.00027	J		0.00055	J		< 0.001	U		0.0206			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-5S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-5S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-5S_03_14_2012	N	< 0.001	U		0.00029	J		0.00061	J		< 0.001	U		0.0194			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-5S_06_26_2012	N	< 0.001	U		< 0.001	U		0.00058	J		< 0.001	U		0.0183			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-5S_10_03_2012	N	< 0.001	U		0.00034	J		0.00056	J		< 0.001	U		0.0197			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-5S_04_23_2013	N	< 0.001	U		0.00033	J		0.0007	J		< 0.001	U		0.0231			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-5S_10_25_2013	N	< 0.001	U		< 0.001	U		0.00036	J	J	< 0.001	U		0.0097		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-5S_04_08_2014	N	< 0.001	U		0.00032	J		0.00065	J		< 0.001	U		0.0239			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-5S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-6D	4/4/2011	MW-6D BAG_04_04_2011	N	< 0.001	U		0.00064	J		0.0012		J	< 0.001	U		0.049		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-6D PUMP_04_04_2011	N	< 0.001	U		0.00087	J		0.0017			< 0.001	U		0.0666			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0003	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6D BAG_06_07_2011	N	< 0.001	U		0.00091	J		0.0021			< 0.001	U		0.0859			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0004	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6D_06_07_2011	N	< 0.001	U		0.00095	J		0.0021			< 0.001	U		0.0802		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-6D_09_15_2011	N	< 0.001	U		0.001			0.0023			< 0.001	U		0.0814			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0003	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-6D_12_15_2011	N	< 0.001	U		0.00096	J		0.0026			< 0.001	U		0.0855			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00029	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-6D_03_14_2012	N	< 0.001	U		0.00082	J		0.0022			< 0.001	U		0.0776			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-6D_06_26_2012	N	< 0.001	U		0.00068	J		0.0018			< 0.001	U		0.0683			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-6D_10_03_2012	N	< 0.001	U		0.0006	J		< 0.001	U		< 0.001	U		0.0674			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-6D_04_23_2013	N	< 0.001	U		0.0007	J		0.0019			< 0.001	U		0.0771			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-6D_10_25_2013	N	< 0.001	U		0.00058	J	J	0.0015		J	< 0.001	U		0.0547		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-6D_04_08_2014	N	< 0.001	U		0.00065	J		0.0017			< 0.001	U		0.0632			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-6D_10_21_2014	N	< 0.001	U		0.00057	J		0.0013			< 0.001	U		0.05			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-6S	4/4/2011	MW-6S BAG_04_04_2011	N	< 0.001	U		0.00032	J		0.00028	J		< 0.001	U		0.0235			< 0.001	U		< 0.001	U		0.0028	J		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-6S PUMP_04_04_2011	N	< 0.001	U		0.00035	J		0.00042	J		< 0.001	U		0.0295			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6S BAG_06_07_2011	N	< 0.001	U		0.00042	J		0.00068	J		< 0.001	U		0.0344			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	BLIND DUPLICATE BAG_06_07_2011	FD	< 0.001	U		0.00036	J		0.00069	J		< 0.001	U		0.0338			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6S_06_07_2011	N	< 0.001	U		0.00043	J		0.00056	J		< 0.001	U		0.0318			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	BLIND DUPLICATE_06_07_2011	FD	< 0.001	U		0.00042	J		0.00061	J		< 0.001	U		0.0319			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-6S_09_15_2011	N	< 0.001	U		0.00037	J		0.00054	J		< 0.001	U		0.0246			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-6S_12_15_2011	N	0.00045	J		0.0004	J		0.00056	J		< 0.001	U		0.0353			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-6S_03_14_2012	N	0.00043	J		0.00027	J		0.0005	J		< 0.001	U		0.0299			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-6S_06_26_2012	N	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.0239			< 0.002	U		< 0.002	U		< 0.01	U		< 0.05	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.004	U	
	10/3/2012	MW-6S_10_03_2012	N	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.0547			< 0.002	U		< 0.002	U		< 0.01	U		< 0.05	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.004	U	
	4/23/2013	MW-6S_04_23_2013	N	< 0.001	U		0.00029	J		0.00047	J		< 0.001	U		0.0266			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-6S_10_25_2013	N	< 0.001	U		0.00024	J	J	0.00034	J	J	< 0.001	U		0.0244		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-6S_04_08_2014	N	< 0.001	U		0.00042	J		0.00065	J		< 0.001	U		0.041			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-6S_10_21_2014	N	< 0.001	U		0.0004	J		< 0.001	U		< 0.001	U		0.04			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
PZ-3	2/7/2008	PZ-3_02_07_2008	N	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		0.0079			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	PZ-3_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0036			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	PZ-3_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	PZ-3_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	PZ-3_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	PZ-3_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		0.0102			< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	PZ-3_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	PZ-3_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	PZ-3_03_11_2010	N	< 0.001	U		0.00037	J		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	PZ-3_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	PZ-3_09_10_2010	N	< 0.001	U		0.00071	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U		< 0.001	U		< 0.005	U		0.0946			< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	PZ-3_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-1D	2/7/2008	MW-1D_02_07_2008	N	< 0.001	U		0.0013			< 0.001	U		< 0.001	U		0.0156			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0002	J		0.002			< 0.001	U	
	5/6/2008	MW-1D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0091			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			< 0.001	U	
	8/29/2008	MW-1D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.023			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		0.0031			< 0.001	U	
	12/22/2008	MW-1D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0185			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			< 0.001	U	
	3/19/2009	MW-1D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0307			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0016			< 0.001	U	R
	6/19/2009	MW-1D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0623			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0022			0.0017		
	9/18/2009	MW-1D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0386			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00189			0.00133		
	12/23/2009	MW-1D_12_23_2009	N	< 0.001	U		< 0.001	U		0.0021			< 0.001	U		0.046			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00066	J		0.0018			0.00074	J	
	3/11/2010	MW-1D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0103			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00055	J		< 0.001	U	
	6/28/2010	MW-1D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0111			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00068	J		< 0.001	U	
	9/10/2010	MW-1D_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.014			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00079	J		< 0.001	U	
	12/16/2010	MW-1D_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0265			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00048	J		0.0016			0.00068	J	
	4/4/2011	MW-1D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0114			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	6/7/2011	MW-1D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0105			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00099	J		< 0.001	U	
	9/15/2011	MW-1D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0165			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			0.00035	J	
	12/15/2011	MW-1D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0133			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			< 0.001	U	
	3/14/2012	MW-1D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0139			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
	6/26/2012	MW-1D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0131			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U	
	10/3/2012	MW-1D_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0163			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00032	J		0.0021			< 0.001	U	
	4/23/2013	MW-1D_04_23_2013	N	0.00024	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0185			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00038	J		0.0017			< 0.001	U	
	10/25/2013	MW-1D_10_25_2013	N	0.00021	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0137			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00034	J		0.0017			< 0.001	U	
	4/8/2014	MW-1D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0047			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	10/21/2014	MW-1D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0036			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U	
MW-1S	2/7/2008	MW-1S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.002			< 0.001	U	
	5/6/2008	MW-1S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0063			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U	
	8/29/2008	MW-1S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U	
	12/22/2008	MW-1S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	3/19/2009	MW-1S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0081			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			< 0.001	U	R
	6/19/2009	MW-1S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	9/18/2009	MW-1S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-1S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00075	J		< 0.001	U	
	3/11/2010	MW-1S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0032			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00097	J		< 0.001	U	
	6/28/2010	MW-1S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00047	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00056	J		< 0.001	U	
	9/10/2010	MW-1S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00061	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00051	J		< 0.001	U	
	12/16/2010	MW-1S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00059	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00054	J		< 0.001	U	
	4/4/2011	MW-1S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0032			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	6/7/2011	MW-1S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.001			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00065	J		< 0.001	U	
	9/15/2011	MW-1S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0011			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00098	J		< 0.001	U	
	12/15/2011	MW-1S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00053	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			< 0.001	U	
	3/14/2012	MW-1S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0012			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U	
	6/26/2012	MW-1S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0015			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	10/3/2012	MW-1S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0016			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0032			< 0.001	U	
	4/23/2013	MW-1S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.002			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U	
	10/25/2013	MW-1S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.003			< 0.001	U	
	4/8/2014	MW-1S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0011			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00094	J		< 0.001	U	
	10/21/2014	MW-1S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00082	J		< 0.001	U	
MW-2D	2/7/2008	MW-2D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0265			< 0.001	U		< 0.001	U		0.0038			< 0.001	U		0.00043	J		**0.0073**			< 0.001	U	
	5/6/2008	MW-2D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		0.0014			0.011			< 0.001	U		< 0.001	U		0.0018			< 0.001	U		< 0.001	U		**0.012**			< 0.001	U	
	8/29/2008	MW-2D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0414			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00073	J		**0.0151**			< 0.001	U	
	12/22/2008	MW-2D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0174			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0112**			< 0.001	U	
	3/19/2009	MW-2D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.04			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.006**			< 0.001	U	R
	3/19/2009	BLIND DUPLICATE_03_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0453			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0069**			< 0.001	U	R
	6/19/2009	MW-2D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0425			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0042			< 0.001	U	
	6/19/2009	BLIND DUPLICATE_06_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0382			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	9/18/2009	MW-2D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0382			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.00522**			0.00124		
	9/18/2009	BLIND DUP_09_18_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0321			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00115			0.00492			0.00105		
	12/23/2009	MW-2D_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0443			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00091	J		0.0048			0.001		
	3/11/2010	MW-2D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00027	J		0.0231			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0051**			0.00057	J	
	6/28/2010	MW-2D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00038	J		0.011			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0071**			< 0.001	U	
	9/10/2010	MW-2D_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00039	J		0.0145			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0072**			< 0.001	U	
	12/16/2010	MW-2D_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0138			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0048			< 0.001	U	
	4/4/2011	MW-2D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0317			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00051	J		0.0039			0.0009	J	
	6/7/2011	MW-2D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0323			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00054	J		0.0036			0.00078	J	
	9/15/2011	MW-2D_09_15_2011	N	0.00023	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0436			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00069	J		0.0037			0.0011		
	12/15/2011	MW-2D_12_15_2011	N	0.00023	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0334			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00064	J		0.0035			0.00047	J	
	3/14/2012	MW-2D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0339			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00057	J		0.0025			0.00079	J	
	6/26/2012	MW-2D_06_26_2012	N	0.00025	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0472			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00071	J		0.002			0.00093	J	
	10/3/2012	MW-2D_10_03_2012	N	0.00029	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0419			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00072	J		0.0021			0.00093	J	
	4/23/2013	MW-2D_04_23_2013	N	0.00033	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0466			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00074	J		0.0014			0.0012		
	10/25/2013	MW-2D_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0246			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00058	J		**0.005**			0.00093	J	
	4/8/2014	MW-2D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0163			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			0.00074	J	
	10/21/2014	MW-2D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0246			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00052	J		0.0014			0.0016		

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-2S	2/7/2008	MW-2S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.053			< 0.001	U		< 0.001	U		**0.103**			< 0.001	U		0.00094	J		**0.0099**			< 0.001	U	
	2/7/2008	BLIND DUPLICATE_02_07_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0491			< 0.001	U		< 0.001	U		**0.0947**			< 0.001	U		0.00079	J		**0.0091**			< 0.001	U	
	5/6/2008	MW-2S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		**0.0284**			< 0.001	U		< 0.001	U		0.0033			< 0.001	U	
	5/6/2008	BLIND DUP_05_06_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		**0.0241**			< 0.001	U		< 0.001	U		0.0031			< 0.001	U	
	8/29/2008	MW-2S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0027			< 0.001	U		< 0.001	U		**0.0192**			< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	8/29/2008	BLIND DUP_08_29_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U		< 0.001	U		**0.0167**			< 0.001	U		< 0.001	U		0.0025			< 0.001	U	
	12/22/2008	MW-2S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0099			< 0.001	U		< 0.001	U		**0.0289**			< 0.001	U		< 0.001	U		0.0029			< 0.001	U	
	12/22/2008	BLIND DUP_12_22_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0101			< 0.001	U		< 0.001	U		**0.0289**			< 0.001	U		< 0.001	U		0.003			< 0.001	U	
	3/19/2009	MW-2S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0194**			< 0.001	U		< 0.001	U		0.0011			< 0.001	U	R
	6/19/2009	MW-2S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0181**			< 0.001	U		< 0.001	U		0.001			< 0.001	U	
	9/18/2009	MW-2S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.00646**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-2S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00042	J		< 0.005	U		< 0.001	U		**0.007**			< 0.001	U		< 0.001	U		0.00058	J		< 0.001	U	
	3/11/2010	MW-2S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.0041			< 0.001	U		< 0.001	U		0.00033	J		< 0.001	U	
	6/28/2010	MW-2S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00052	J		< 0.005	U		< 0.001	U		0.0045			< 0.001	U		< 0.001	U		0.00047	J		< 0.001	U	
	9/10/2010	MW-2S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0022			< 0.005	U		< 0.001	U		**0.0064**			< 0.001	U		< 0.001	U		0.0013			< 0.001	U	
	12/16/2010	MW-2S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0018			< 0.005	U		< 0.001	U		**0.0073**			< 0.001	U		< 0.001	U		0.00089	J		< 0.001	U	
	4/4/2011	MW-2S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0026			< 0.005	U		< 0.001	U		**0.0079**			< 0.001	U		< 0.001	U		0.0013			< 0.001	U	
	6/7/2011	MW-2S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0023			< 0.005	U		< 0.001	U		**0.0053**			< 0.001	U		< 0.001	U		0.0016			< 0.001	U	
	9/15/2011	MW-2S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00069	J		0.0242			< 0.005	U		< 0.001	U		**0.0217**			< 0.001	U		0.00047	J		**0.0158**			< 0.001	U	
	12/15/2011	MW-2S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00076	J		0.0311			< 0.005	U		< 0.001	U		**0.0575**			< 0.001	U		0.00066	J		**0.0082**			< 0.001	U	
	3/14/2012	MW-2S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		0.0004	J		0.0198			< 0.005	U		< 0.001	U		**0.0454**			< 0.001	U		0.00041	J		0.0048			< 0.001	U	
	6/26/2012	MW-2S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00037	J		0.016			< 0.005	U		< 0.001	U		**0.0464**			< 0.001	U		< 0.001	U		**0.0052**			< 0.001	U	
	10/3/2012	MW-2S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0039			< 0.005	U		< 0.001	U		**0.0116**			< 0.001	U		< 0.001	U		0.0034			< 0.001	U	
	4/23/2013	MW-2S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0051			< 0.005	U		< 0.001	U		**0.0121**			< 0.001	U		< 0.001	U		0.0033			< 0.001	U	
	10/25/2013	MW-2S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		**0.0051**			< 0.001	U		< 0.001	U		0.0041			< 0.001	U	
	4/8/2014	MW-2S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00038	J		< 0.005	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
	10/21/2014	MW-2S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00048	J		< 0.005	U		< 0.001	U		0.00068	J		< 0.001	U		< 0.001	U		0.0024			< 0.001	U	
MW-3D	2/7/2008	MW-3D_02_07_2008	N	< 0.001	U		0.0019			< 0.001	U		0.0013			0.0172			< 0.001	U		< 0.001	U		**0.006**			< 0.001	U		0.00032	J		0.0047			< 0.001	U	
	5/6/2008	MW-3D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0615			< 0.001	U		< 0.001	U		0.0012			< 0.001	U		0.0016			**0.0116**			0.0018		
	8/29/2008	MW-3D_08_29_2008	N	< 0.001	U		0.0018			< 0.001	U		< 0.001	U		0.0611			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			**0.0095**			0.0017		
	12/22/2008	MW-3D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0708**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			**0.0069**			**0.0022**		
	3/19/2009	MW-3D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.11**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			**0.0065**			**0.0029**		J
	6/19/2009	MW-3D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.113**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0027			**0.0061**			**0.0027**		
	9/18/2009	MW-3D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0314			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0034			0.00104		
	12/23/2009	MW-3D_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0946**		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.003			0.004			**0.0028**		
	3/11/2010	MW-3D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00027	J		0.0301		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00057	J		0.0023			0.00096	J	
	3/11/2010	BLIND DUPLICATE_03_11_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0809**		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			0.0032			**0.0024**		
	6/28/2010	MW-3D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0498			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			0.0036			0.0014		
	9/10/2010	MW-3D_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0544		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			0.0037			0.0018		
	12/16/2010	MW-3D_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0521		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00083	J		0.0027			0.0015		
	4/4/2011	MW-3D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0291			< 0.005	U		< 0.001	U		0.00026	J		< 0.001	U		0.00051	J		0.0026			< 0.001	U	
	4/4/2011	BLIND DUPLICATE_02_04_04_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.058			< 0.005	U		< 0.001	U		< 0.001	U		0.00035	J		0.001			**0.005**			0.0016		
	4/4/2011	MW-3D PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0478			< 0.005	U		< 0.001	U		< 0.001	U		0.00035	J		0.00089	J		0.0041			0.0012		
	6/7/2011	MW-3D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0564			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		0.0029			0.0012		
	6/7/2011	MW-3D PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0516			< 0.005	U		< 0.001	U		< 0.001	U		0.00036	J		0.00087	J		0.0035			0.0015		
	9/15/2011	MW-3D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0526			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00099	J		0.0034			0.0016		
	12/15/2011	MW-3D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0448			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		0.0028			0.0012		
	3/14/2012	MW-3D_03_14_2012	N	< 0.001	U		< 0.001	U		0.00053	J		< 0.001	U		0.0217			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00043	J		0.0025			< 0.001	U	
	6/26/2012	MW-3D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0714**			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			0.002			**0.002**		
	10/3/2012	MW-3D_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0362			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00077	J		0.0029			0.00074	J	
	10/3/2012	BLIND DUP-D_10_03_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0594			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			0.0018			0.0016		
	4/23/2013	MW-3D_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.06			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			0.0017			0.0014		
	4/23/2013	BLIND DUP-D_04_23_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0857**			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			0.0017			**0.0021**		
	10/25/2013	MW-3D_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0535			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			0.0029			0.0011		
	10/25/2013	BLIND DUP D_10_25_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0527		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011		J	0.0023		J	0.00097	J	J
	4/8/2014	MW-3D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0627			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			0.0013			0.0019		
	4/8/2014	BLIND DUP-D_04_08_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0615			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			0.0013			0.0014		
	10/21/2014	MW-3D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0429			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00087	J		0.0015			< 0.001	U	
	10/21/2014	BLIND DUP-D_10_21_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0397			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00087	J		0.0016			< 0.001	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-3S	2/7/2008	MW-3S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		**0.0501**			< 0.001	U		< 0.001	U		**0.0165**			< 0.001	U	
	5/6/2008	MW-3S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0074			< 0.001	U		< 0.001	U		**0.0193**			< 0.001	U		< 0.001	U		**0.0156**			< 0.001	U	
	8/29/2008	MW-3S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0058			< 0.001	U		< 0.001	U		**0.0119**			< 0.001	U		< 0.001	U		**0.0168**			< 0.001	U	
	12/22/2008	MW-3S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0028			< 0.001	U		< 0.001	U		**0.011**			< 0.001	U		< 0.001	U		**0.014**			< 0.001	U	
	3/19/2009	MW-3S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			< 0.001	U		< 0.001	U		**0.0165**			< 0.001	U		< 0.001	U		**0.012**			< 0.001	U	R
	6/19/2009	MW-3S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U		< 0.001	U		**0.0072**			< 0.001	U		< 0.001	U		**0.0071**			< 0.001	U	
	9/18/2009	MW-3S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.00383			< 0.001	U		< 0.001	U		0.00478			< 0.001	U	
	12/23/2009	MW-3S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00028	J		< 0.005	U		< 0.001	U		**0.017**			< 0.001	U		< 0.001	U		0.0049			< 0.001	U	
	12/23/2009	BLIND DUP_12_23_2009	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00029	J		< 0.005	U		< 0.001	U		**0.0145**			< 0.001	U		< 0.001	U		0.0045			< 0.001	U	
	3/11/2010	MW-3S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.0158**			< 0.001	U		< 0.001	U		0.0044			< 0.001	U	
	6/28/2010	MW-3S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0013			< 0.005	U		< 0.001	U		**0.0111**			< 0.001	U		< 0.001	U		**0.0056**			< 0.001	U	
	6/28/2010	BLIND DUPLICATE_06_28_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0012			< 0.005	U		< 0.001	U		**0.0102**			< 0.001	U		< 0.001	U		**0.0053**			< 0.001	U	
	9/10/2010	MW-3S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0016			< 0.005	U		< 0.001	U		**0.0319**			< 0.001	U		< 0.001	U		**0.0068**			< 0.001	U	
	9/10/2010	BLIND DUPLICATE_09_10_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		**0.0248**			< 0.001	U		< 0.001	U		**0.0059**			< 0.001	U	
	12/16/2010	MW-3S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00054	J		< 0.005	U		< 0.001	U		**0.0146**			< 0.001	U		< 0.001	U		0.0041			< 0.001	U	
	12/16/2010	BLIND DUP_12_16_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00055	J		< 0.005	U		< 0.001	U		**0.0135**			< 0.001	U		< 0.001	U		0.004			< 0.001	U	
	4/4/2011	MW-3S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0024			< 0.005	U		< 0.001	U		**0.0149**			< 0.001	U		< 0.001	U		**0.0063**			< 0.001	U	
	4/4/2011	MW-3S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0079			< 0.005	U		< 0.001	U		**0.0072**			0.00024	J		< 0.001	U		**0.0059**			< 0.001	U	
	6/7/2011	MW-3S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0037		J	< 0.005	U		< 0.001	U		**0.0162**			< 0.001	U		< 0.001	U		**0.0065**			< 0.001	U	
	6/7/2011	MW-3S PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0122			< 0.005	U		< 0.001	U		**0.0062**			< 0.001	U		< 0.001	U		**0.0059**			< 0.001	U	
	9/15/2011	MW-3S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.006			< 0.005	U		< 0.001	U		**0.0243**			< 0.001	U		< 0.001	U		**0.008**			< 0.001	U	
	12/15/2011	MW-3S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00024	J		0.0051			< 0.005	U		< 0.001	U		**0.0283**			< 0.001	U		< 0.001	U		**0.0072**			< 0.001	U	
	12/15/2011	BLIND DUPLICATE_12_15_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0047			< 0.005	U		< 0.001	U		**0.0284**			< 0.001	U		< 0.001	U		**0.0065**			< 0.001	U	
	3/14/2012	MW-3S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0026			< 0.005	U		< 0.001	U		**0.0267**			< 0.001	U		< 0.001	U		**0.0055**			< 0.001	U	
	3/14/2012	BLIND DUPLICATE_03_14_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0024			< 0.005	U		< 0.001	U		**0.0279**			< 0.001	U		< 0.001	U		**0.0056**			< 0.001	U	
	6/26/2012	MW-3S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		**0.0121**			< 0.001	U		< 0.001	U		**0.0054**			< 0.001	U	
	6/26/2012	BLIND DUP_06_26_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.002			< 0.005	U		< 0.001	U		**0.0083**			< 0.001	U		< 0.001	U		**0.005**			< 0.001	U	
	10/3/2012	MW-3S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0026			< 0.005	U		< 0.001	U		**0.0233**			< 0.001	U		< 0.001	U		0.0049			< 0.001	U	
	10/3/2012	BLIND DUP-S_10_03_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0024			< 0.005	U		< 0.001	U		**0.0209**			< 0.001	U		< 0.001	U		0.0047			< 0.001	U	
	4/23/2013	MW-3S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0023			< 0.005	U		< 0.001	U		**0.0379**			< 0.001	U		< 0.001	U		0.0031			< 0.001	U	
	4/23/2013	BLIND DUP-S_04_23_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0022			< 0.005	U		< 0.001	U		**0.0378**			< 0.001	U		< 0.001	U		0.003			< 0.001	U	
	10/25/2013	MW-3S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0016			< 0.005	U		< 0.001	U		**0.0113**			< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
	10/25/2013	BLIND DUP S_10_25_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0012		J	< 0.005	U		< 0.001	U		**0.0106**		J	< 0.001	U		< 0.001	U		0.0016		J	< 0.001	U	
	4/8/2014	MW-3S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00087	J		< 0.005	U		< 0.001	U		**0.0217**			< 0.001	U		< 0.001	U		0.0014			< 0.001	U	
	4/8/2014	BLIND DUP-S_04_08_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0013			< 0.005	U		< 0.001	U		**0.0242**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
	10/21/2014	MW-3S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00044	J		< 0.005	U		< 0.001	U		**0.0193**			< 0.001	U		< 0.001	U		0.002			< 0.001	U	
	10/21/2014	BLIND DUP-S_10_21_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.0211**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
MW-4D	4/4/2011	MW-4D BAG_04_04_2011	N	< 0.001	U		0.0019			< 0.002	U		0.0013			0.0201			< 0.005	U		< 0.001	U		0.00069	J		< 0.001	U		< 0.001	U		0.002			0.00044	J	
	6/7/2011	MW-4D BAG_06_07_2011	N	0.00033	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0354			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00057	J		0.0032			0.001		
	9/15/2011	MW-4D_09_15_2011	N	0.0003	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0315			< 0.005	U		< 0.001	U		0.00026	J		< 0.001	U		0.00048	J		0.0032			0.00077	J	
	12/15/2011	MW-4D_12_15_2011	N	0.00027	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0226			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0004	J		0.0027			0.00049	J	
	3/14/2012	MW-4D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0179			< 0.005	U		< 0.001	U		0.00059	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U	
	6/26/2012	MW-4D_06_26_2012	N	0.00021	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0201			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0028			< 0.001	U	
	10/3/2012	MW-4D_10_03_2012	N	0.00026	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0192			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00046	J		0.0029			< 0.001	U	
	4/23/2013	MW-4D_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0143			< 0.005	U		< 0.001	U		0.0004	J		< 0.001	U		0.00033	J		0.0023			< 0.001	U	
	10/25/2013	MW-4D_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0181			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00045	J		0.0024			< 0.001	U	
	4/8/2014	MW-4D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0136			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U	
	10/21/2014	MW-4D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0111			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
MW-4S	4/4/2011	MW-4S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0044			< 0.005	U		< 0.001	U		0.00065	J		0.0002	J		< 0.001	U		0.0019			< 0.001	U	
	6/7/2011	MW-4S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00052	J		0.00081	J		< 0.005	U		< 0.001	U		0.0045			< 0.001	U		< 0.001	U		0.00081	J		< 0.001	U	
	9/15/2011	MW-4S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00029	J		0.00091	J		< 0.005	U		< 0.001	U		0.0049			< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	12/15/2011	MW-4S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00079	J		< 0.005	U		< 0.001	U		0.0013			< 0.001	U		< 0.001	U		0.00058	J		< 0.001	U	
	3/14/2012	MW-4S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.001			< 0.005	U		< 0.001	U		0.0011			< 0.001	U		< 0.001	U		0.0007	J		< 0.001	U	
	6/26/2012	MW-4S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00082	J		< 0.005	U		< 0.001	U		0.0032			< 0.001	U		< 0.001	U		0.00066	J		< 0.001	U	
	10/3/2012	MW-4S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0015			< 0.005	U		< 0.001	U		0.0011			< 0.001	U		< 0.001	U		0.0008	J		< 0.001	U	
	4/23/2013	MW-4S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	J	U	0.00053	J		< 0.005	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		0.00064	J		< 0.001	U	
	10/25/2013	MW-4S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00029	J		0.00046	J		< 0.005	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		0.0004	J		< 0.001	U	
	4/8/2014	MW-4S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.0011			< 0.001	U		< 0.001	U		0.00044	J		< 0.001	U	
	10/21/2014	MW-4S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.001			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
MW-5D	4/4/2011	MW-5D BAG_04_04_2011	N	< 0.001	U		0.0016			< 0.002	U		0.0013			0.0351			< 0.005	U		< 0.001	U		0.00066	J		0.00026	J		0.00059	J		0.0126			0.001		
	4/4/2011	BLIND DUPLICATE_01_04_04_2011	FD	< 0.001	U		0.0015			< 0.002	U		0.0012			0.0389			< 0.005	U		< 0.001	U		0.00059	J		0.00025	J		0.00062	J		**0.0133**			0.0011		
	4/4/2011	MW-5D PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0824**			< 0.005	U		< 0.001	U		0.00037	J		0.00055	J		0.0013			**0.0173**			**0.0023**		
	6/7/2011	MW-5D BAG_06_07_2011	N	< 0.001	U		0.0011			< 0.002	U		0.001			0.0389			< 0.005	U		< 0.001	U		0.00071	J		0.00027	J		0.00069	J		**0.01**			0.0011		
	6/7/2011	MW-5D PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0795**			< 0.005	U		< 0.001	U		0.00033	J		0.00048	J		0.0018			**0.023**			**0.0036**		
	9/15/2011	MW-5D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0622			< 0.005	U		< 0.001	U		0.00045	J		< 0.001	U		0.00099	J		**0.0172**			0.0017		
	12/15/2011	MW-5D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0613			< 0.005	U		< 0.001	U		0.00035	J		0.0002	J		0.00091	J		**0.016**			0.0017		
	3/14/2012	MW-5D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0365			< 0.005	U		< 0.001	U		0.00027	J		< 0.001	U		0.00041	J		**0.0094**			0.0004	J	
	6/26/2012	MW-5D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0632			< 0.005	U		< 0.001	U		0.00041	J		< 0.001	U		0.00097	J		**0.0166**			0.0014		
	10/3/2012	MW-5D_10_03_2012	N	0.00024	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0569			< 0.005	U		0.0003	J		0.00067	J		< 0.001	U		0.00098	J		**0.0167**			0.0013		
	4/23/2013	MW-5D_04_23_2013	N	0.00028	J		< 0.001	U		< 0.002	U		< 0.001	U		0.057			< 0.005	U		< 0.001	U		0.0005	J		< 0.001	U		0.0012			**0.0137**			0.0012		
	10/25/2013	MW-5D_10_25_2013	N	0.0002	J	J	< 0.001	U		< 0.002	U		< 0.001	U		0.037		J	< 0.005	U		< 0.001	U		0.0007	J	J	< 0.001	U		0.001		J	**0.0146**		J	0.00081	J	J
	4/8/2014	MW-5D_04_08_2014	N	0.00025	J		< 0.001	U		< 0.002	U		< 0.001	U		0.039			< 0.005	U		< 0.001	U		0.00068	J		< 0.001	U		0.00097	J		**0.0146**			0.00076	J	
	10/21/2014	MW-5D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0325			< 0.005	U		< 0.001	U		0.00064	J		< 0.001	U		0.00084	J		**0.0136**			0.00074	J	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

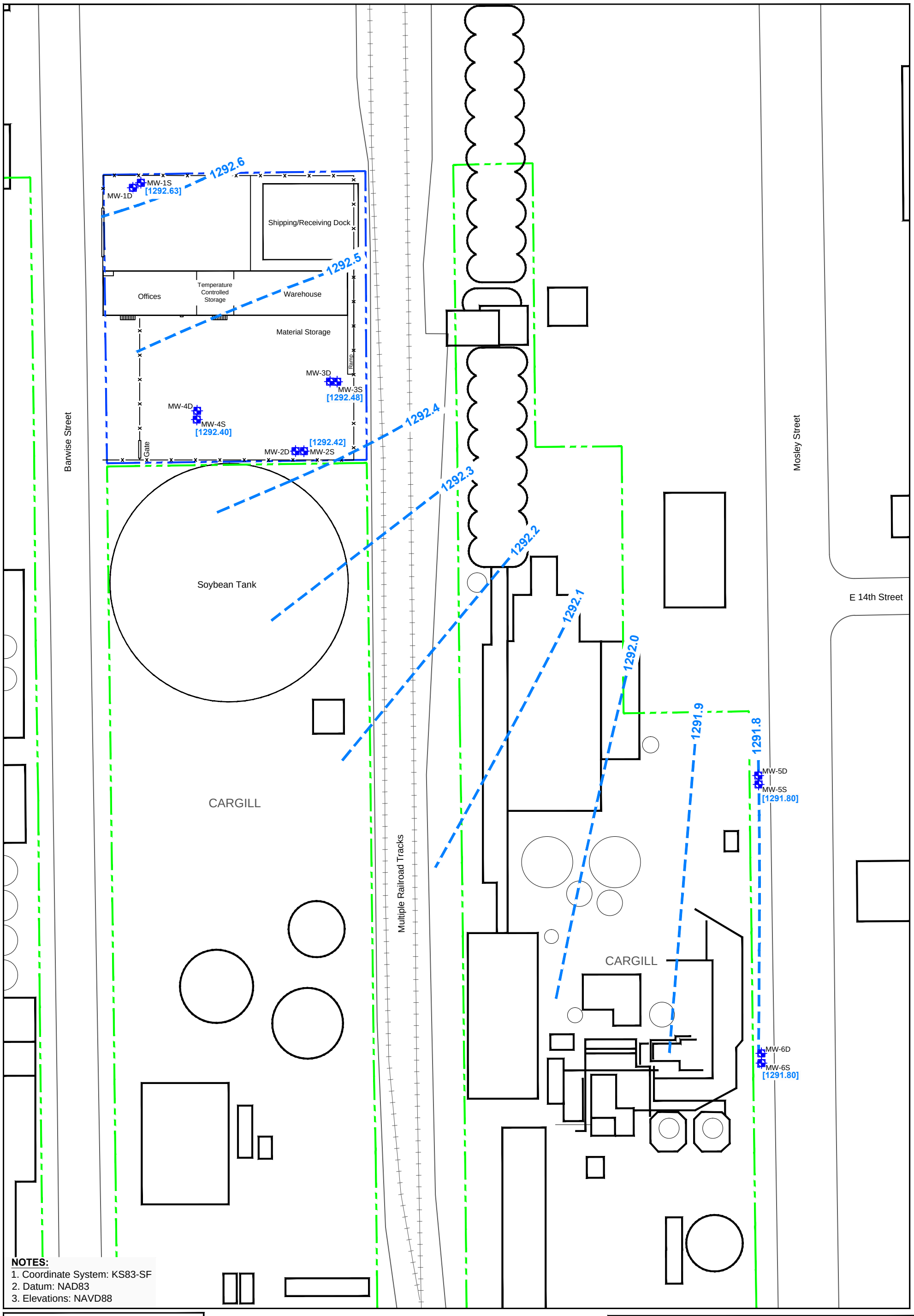
			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-5S	4/4/2011	MW-5S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0227			< 0.005	U		< 0.001	U		**0.0279**			< 0.001	U		0.00062	J		**0.0317**			0.00064	J	
	4/4/2011	MW-5S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0189			< 0.005	U		< 0.001	U		**0.0361**			0.00022	J		0.00059	J		**0.0225**			0.00042	J	
	6/7/2011	MW-5S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0291			< 0.005	U		< 0.001	U		**0.018**			< 0.001	U		0.00079	J		**0.0314**			0.00086	J	
	6/7/2011	MW-5S PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.02			< 0.005	U		< 0.001	U		**0.0187**			< 0.001	U		0.00056	J		**0.0215**			0.00058	J	
	9/15/2011	MW-5S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0047			< 0.005	U		< 0.001	U		**0.0122**			< 0.001	U		< 0.001	U		**0.0075**			< 0.001	U	
	12/15/2011	MW-5S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0025			< 0.005	U		< 0.001	U		**0.0161**			< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	3/14/2012	MW-5S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0189			< 0.005	U		< 0.001	U		**0.0072**			< 0.001	U		0.00046	J		**0.0148**			0.00036	J	
	6/26/2012	MW-5S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0183			< 0.005	U		< 0.001	U		**0.0056**			< 0.001	U		< 0.001	U		**0.0148**			< 0.001	U	
	10/3/2012	MW-5S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0193			< 0.005	U		< 0.001	U		**0.0064**			< 0.001	U		0.00043	J		**0.0149**			< 0.001	U	
	4/23/2013	MW-5S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0225			< 0.005	U		< 0.001	U		0.0044			< 0.001	U		0.00055	J		**0.0143**			0.00061	J	
	10/25/2013	MW-5S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0094		J	< 0.005	U		< 0.001	U		0.0049		J	< 0.001	U		0.00026	J	J	**0.0081**		J	< 0.001	U	
	4/8/2014	MW-5S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0232			< 0.005	U		< 0.001	U		0.0046			< 0.001	U		0.00063	J		**0.0183**			0.00052	J	
	10/21/2014	MW-5S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0017			< 0.005	U		< 0.001	U		0.0043			< 0.001	U		< 0.001	U		0.0038			< 0.001	U	
MW-6D	4/4/2011	MW-6D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00035	J		0.0483		J	< 0.005	U		< 0.001	U		0.00072	J		0.00024	J		0.00077	J		**0.0108**		J	0.0015		
	4/4/2011	MW-6D PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0655			< 0.005	U		< 0.001	U		0.00084	J		0.00026	J		0.0011			**0.014**			0.0019		
	6/7/2011	MW-6D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0847**			< 0.005	U		< 0.001	U		0.00065	J		< 0.001	U		0.0012			**0.0172**			**0.0021**		
	6/7/2011	MW-6D_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0788**		J	< 0.005	U		< 0.001	U		0.00081	J		< 0.001	U		0.0014			**0.0173**			**0.0025**		
	9/15/2011	MW-6D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.08**			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			**0.0166**			0.0018		
	12/15/2011	MW-6D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0841**			< 0.005	U		< 0.001	U		0.00044	J		< 0.001	U		0.0014			**0.0178**			**0.0024**		
	3/14/2012	MW-6D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0763**			< 0.005	U		< 0.001	U		0.00056	J		< 0.001	U		0.0013			**0.0164**			0.0019		
	6/26/2012	MW-6D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0671			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			**0.0167**			0.0017		
	10/3/2012	MW-6D_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0658			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0016			**0.0163**			0.0017		
	4/23/2013	MW-6D_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0756**			< 0.005	U		< 0.001	U		0.00042	J		< 0.001	U		0.0015			**0.0181**			0.0016		
	10/25/2013	MW-6D_10_25_2013	N	< 0.001	U		< 0.001	U		0.0006	J		< 0.001	U		0.0536		J	< 0.005	U		< 0.001	U		0.00047	J	J	< 0.001	U		0.0011		J	**0.0128**		J	0.00069	J	J
	4/8/2014	MW-6D_04_08_2014	N	0.00026	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0619			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			**0.0085**			0.0014		
	10/21/2014	MW-6D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0491			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00091	J		**0.0116**			0.0012		
MW-6S	4/4/2011	MW-6S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0232			< 0.005	U		< 0.001	U		**0.0225**			< 0.001	U		< 0.001	U		**0.0115**			**0.0029**		
	4/4/2011	MW-6S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0291			< 0.005	U		< 0.001	U		**0.0266**			0.00031	J		0.0004	J		**0.0134**			**0.0027**		
	6/7/2011	MW-6S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0338			< 0.005	U		< 0.001	U		**0.0101**			< 0.001	U		0.00054	J		**0.0169**			0.00078	J	
	6/7/2011	BLIND DUPLICATE BAG_06_07_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0333			< 0.005	U		< 0.001	U		**0.0102**			< 0.001	U		0.00049	J		**0.0165**			0.00069	J	
	6/7/2011	MW-6S_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0312			< 0.005	U		< 0.001	U		**0.0247**			< 0.001	U		0.00056	J		**0.0147**			0.0009	J	
	6/7/2011	BLIND DUPLICATE_06_07_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0314			< 0.005	U		< 0.001	U		**0.025**			< 0.001	U		0.00054	J		**0.0156**			0.00085	J	
	9/15/2011	MW-6S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0242			< 0.005	U		< 0.001	U		**0.0216**			< 0.001	U		0.00037	J		**0.015**			0.00041	J	
	12/15/2011	MW-6S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0347			< 0.005	U		< 0.001	U		**0.0794**			< 0.001	U		0.00055	J		**0.0221**			< 0.001	U	
	3/14/2012	MW-6S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0292			< 0.005	U		< 0.001	U		**0.181**			< 0.001	U		0.00072	J		**0.0263**			0.00058	J	
	6/26/2012	MW-6S_06_26_2012	N	< 0.002	U		< 0.002	U		< 0.004	U		< 0.002	U		0.0239			0.0066	J		< 0.002	U		**0.134**			< 0.002	U		< 0.002	U		**0.0198**			0.0011	J	
	10/3/2012	MW-6S_10_03_2012	N	< 0.002	U		< 0.002	U		< 0.004	U		< 0.002	U		0.0547			< 0.01	U		< 0.002	U		**0.0682**			< 0.002	U		< 0.002	U		**0.0181**			**0.0038**		
	4/23/2013	MW-6S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0258			< 0.005	U		< 0.001	U		**0.0694**			< 0.001	U		0.00082	J		**0.0188**			0.00056	J	
	10/25/2013	MW-6S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0238		J	< 0.005	U		< 0.001	U		**0.0363**		J	< 0.001	U		0.00058	J	J	**0.0148**		J	< 0.001	U	
	4/8/2014	MW-6S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0401			< 0.005	U		< 0.001	U		**0.0442**			< 0.001	U		0.00092	J		**0.0128**			0.00067	J	
	10/21/2014	MW-6S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0389			< 0.005	U		< 0.001	U		**0.0315**			< 0.001	U		0.0011			**0.0136**			0.0012		
PZ-3	2/7/2008	PZ-3_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0076			< 0.001	U		< 0.001	U		**0.117**			< 0.001	U		< 0.001	U		**0.0081**			< 0.001	U	
	5/6/2008	PZ-3_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0036			< 0.001	U		< 0.001	U		**0.0734**			< 0.001	U		< 0.001	U		0.0044			< 0.001	U	
	8/29/2008	PZ-3_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		**0.0209**			< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
	12/22/2008	PZ-3_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0252**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
	3/19/2009	PZ-3_03_19_2009	N	0.0019			< 0.001	U		< 0.001	U		< 0.001	U		0.0012			< 0.001	U		< 0.001	U		**0.0127**			< 0.001	U		< 0.001	U		0.0011			< 0.001	U	R
	6/19/2009	PZ-3_06_19_2009	N	0.0017			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	9/18/2009	PZ-3_09_18_2009	N	0.0011			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.00702**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	PZ-3_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0009	J		< 0.005	U		< 0.001	U		0.0016			< 0.001	U		< 0.001	U		0.0006	J		< 0.001	U	
	3/11/2010	PZ-3_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00064	J		< 0.005	U		< 0.001	U		**0.0232**			< 0.001	U		< 0.001	U		0.0023			< 0.001	U	
	6/28/2010	PZ-3_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00065	J		< 0.005	U		< 0.001	U		**0.0122**			< 0.001	U		< 0.001	U		0.0013			< 0.001	U	
	9/10/2010	PZ-3_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0023			< 0.005	U		< 0.001	U		**0.0487**			< 0.001	U		< 0.001	U		0.0048			< 0.001	U	
	12/16/2010	PZ-3_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00079	J		0.00048	J		< 0.005	U		< 0.001	U		**0.022**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	

Prepared by: DJD
Checked by: RMK

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Figures



NOTES:
1. Coordinate System: KS83-SF
2. Datum: NAD83
3. Elevations: NAVD88

LEGEND

	Monitoring Well Location
	Fence
	Brenntag Property Boundary
	Cargill Property Boundary
	Groundwater Contour (Ft. MSL)
[1292.00]	Groundwater Elevation (Ft. MSL)

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Foth

N

0 30 60 Feet

BRENNTAG SOUTHWEST

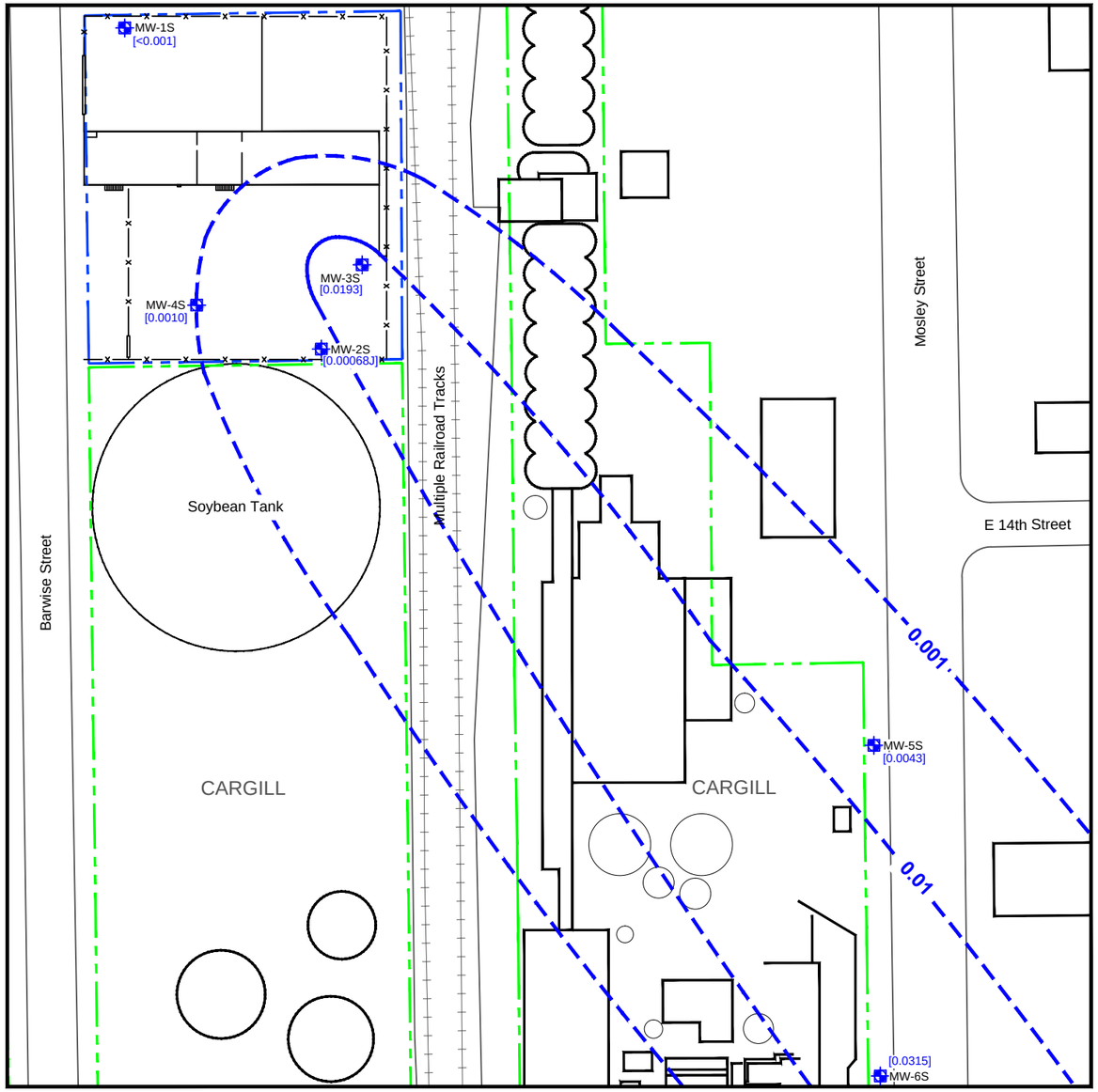
FIGURE 1

GROUNDWATER CONTOUR MAP - OCTOBER 2014
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: NOVEMBER 2014	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477

Nov 18, 2014 - 7:40am ADM1 X:\SP\IE\2012\12B477\GIS\dwg\GW Report Figures\12B477_WatLev14 KS83-SF.dwg

PCE ISOCONCENTRATION CONTOURS



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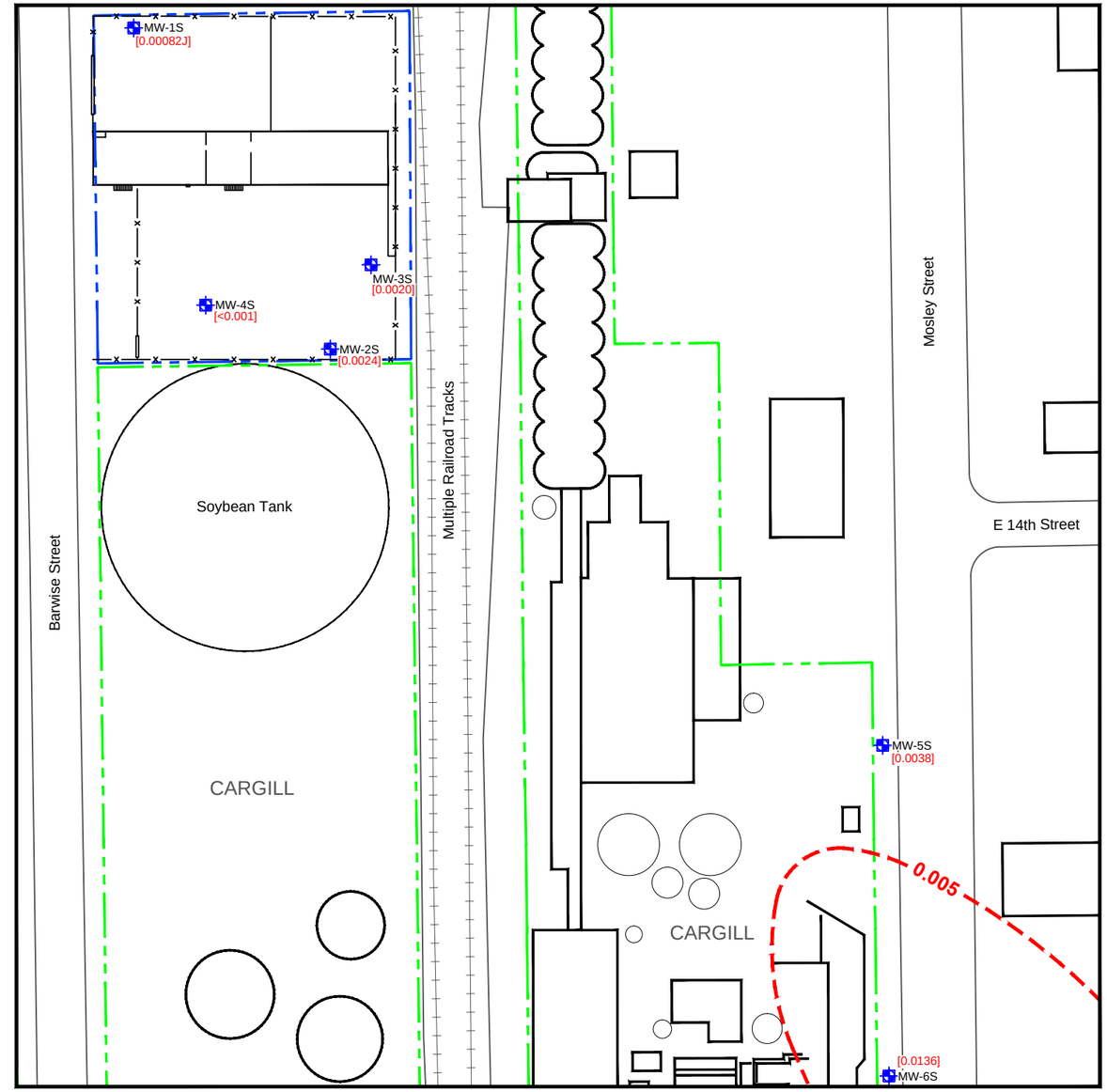


LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 PCE Contour (mg/L)
- 0.01 TCE Contour (mg/L)

NOTE:
1. J = Estimated Value

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

0 40 80 Feet

BRENNTAG SOUTHWEST

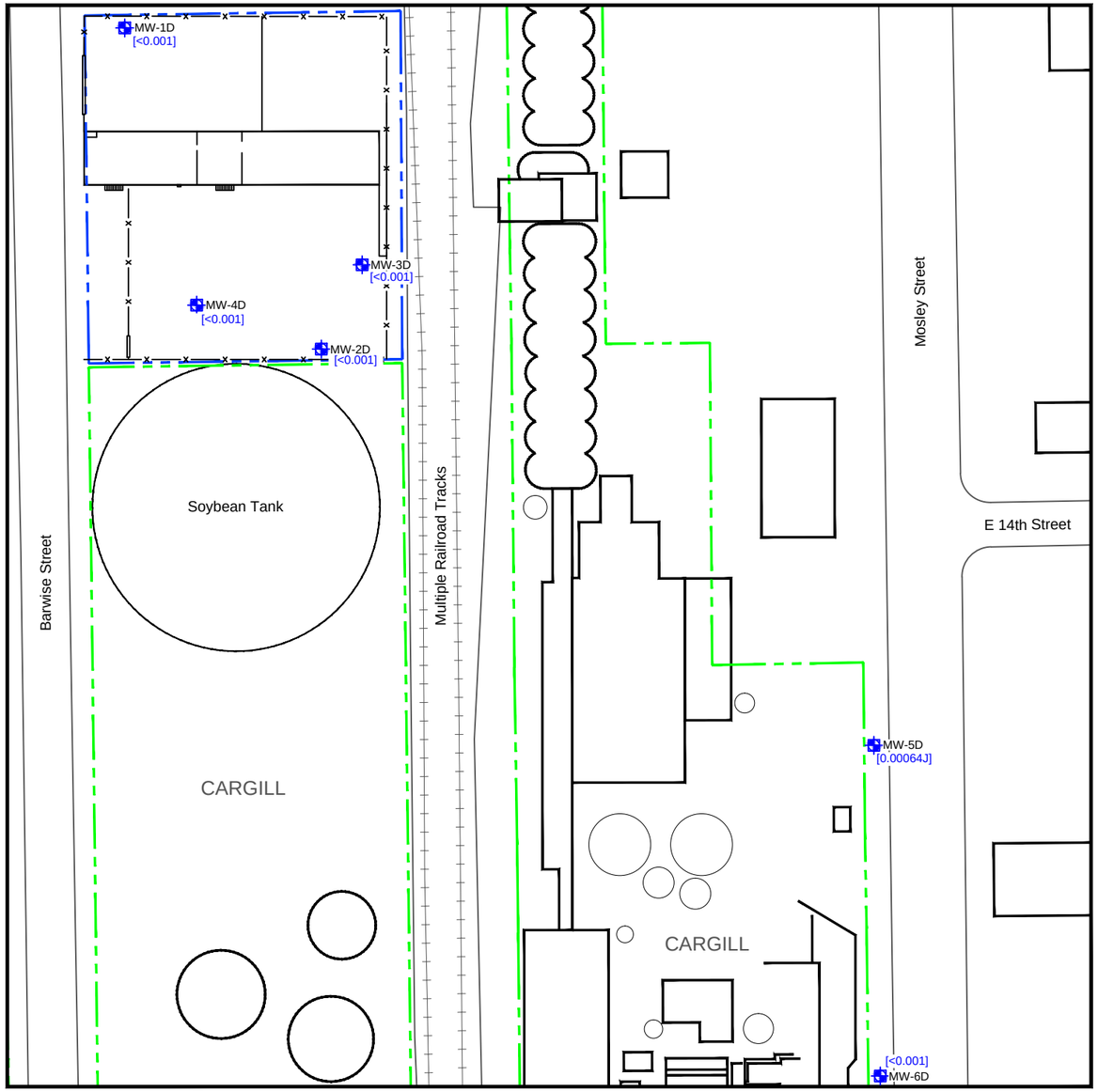
FIGURE 2

SHALLOW WELLS - OCTOBER 2014
1520 N. BARWISE STREET
WICHITA, KANSAS

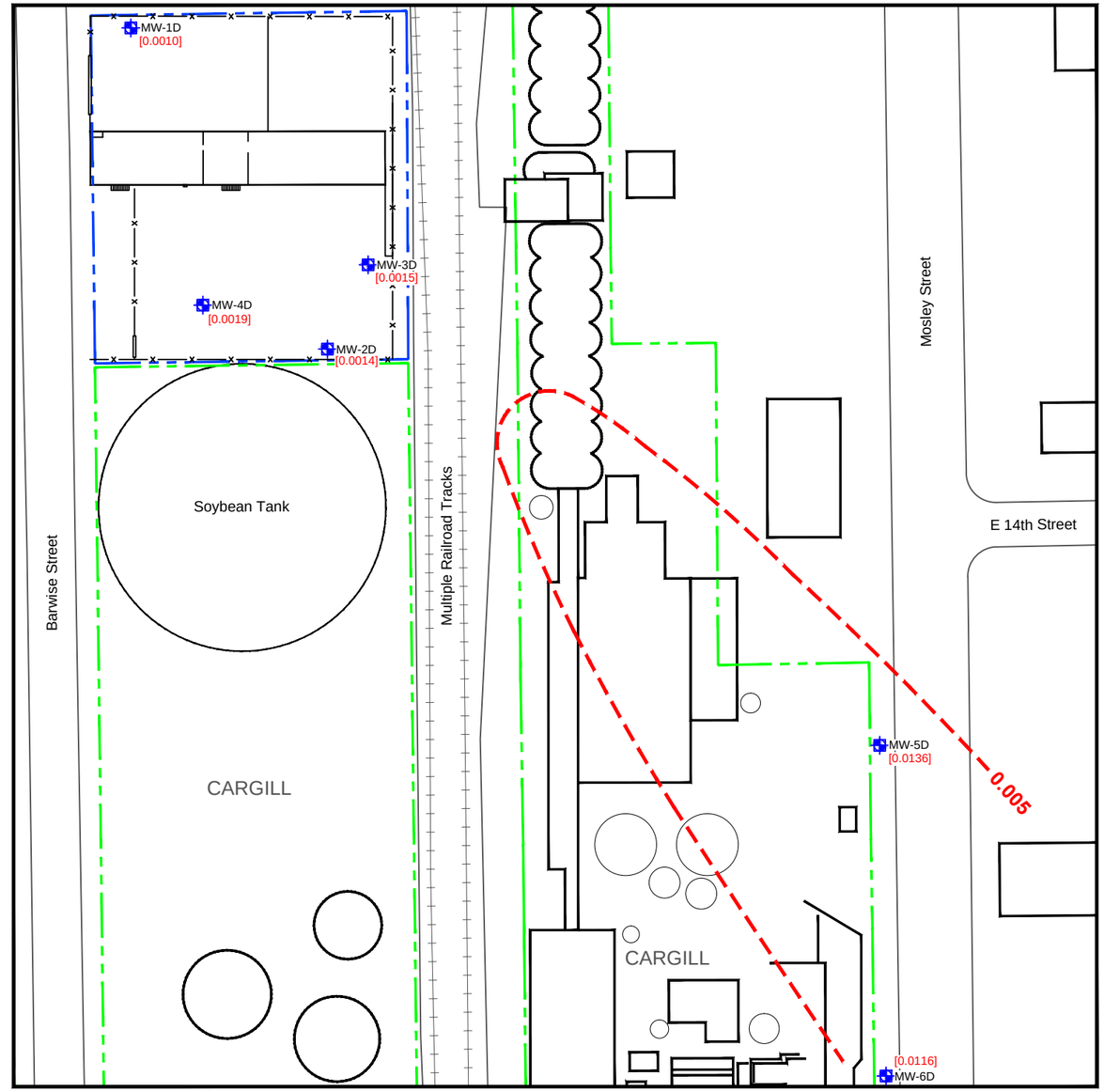
Date: JANUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477

Jan 21, 2015 - 5:55am ADM1 C:\Users\adm1\appdata\local\temp\AcPublish_3680\12B477_Analytical14.dwg

PCE ISOCONCENTRATION CONTOURS



TCE ISOCONCENTRATION CONTOURS



LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 PCE Contour (mg/L)
- 0.01 TCE Contour (mg/L)

NOTE:
1. J = Estimated Value

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Foth

N

0 40 80 Feet

BRENNTAG SOUTHWEST

FIGURE 3

DEEP WELLS - OCTOBER 2014
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: JANUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477

Jan 21, 2015 - 5:54am ADM1 C:\Users\adm1\appdata\local\temp\AcPublish_3680\12B477_Analytical14.dwg

Attachment 1
Groundwater Monitoring Field Forms

Groundwater Monitoring Event

Month Year OCT. 2014

Project Name BRENNTAG

Project Location 1520 N. BOWISE

Project Number 087013

Well ID	Date	Depth to and/or LNAPLThickness	Depth to Water (from TOC)	Depth to and/or DNAPLThickness	Well Depth	Sample ID(s)	Sample Time
MW-1S	10-21-14	—	12.57	—	24.70	—	1000
MW-1D	↑	|	12.50	|	36.89	|	1005
MW-2S	|	|	14.12	|	24.83	|	1030
MW-2D	|	|	14.03	|	37.35	|	1035
MW-3S	|	DUP-S	14.06	|	24.85	|	1110
MW-3D	|	DUP-D	14.11	|	37.83	|	1115
MW-4S	|	|	13.77	|	25.21	|	1135
MW-4D	|	|	13.72	|	37.96	|	1140
MW-5S	|	|	13.04	|	26.30	|	1215
MW-5D	|	|	13.01	|	33.53	|	1220
MW-6S	↓	|	12.94	|	25.29	|	1240
MW-6D	10-21-14	—	12.96	—	33.07	—	1245

FIELD NOTES

PROJECT NAME: BRENNTAG

PROJECT LOCATION: WICHITA, KS.

PROJECT NUMBER: 08708

DATE: 10-21-14

WEATHER: Sunny @ 72°

NOTES: On site @ 0945 checked in @ office - Jerry will have to unlock gates when I need to go in & sample.

MW-1S & 1D Sampled @ S ≠ 1000 D ≠ 1005

Jerry had to unlock gate for sampling MW 3S - 4S.

MW-2S sampled @ 1030 & MW-2D @ 1035

MW-3S sampled @ 1110 & MW-3D @ 1115. Duplicates were taken from MW-3S & 3D.

MW-4S & MW-4D had to have tanks moved off of wells. MW4S Sampled @ 1135; MW4D Sampled @ 1140

Jerry had to unlock gate for me to let me out.

MW-5S sampled @ 1215 MW-5D Sampled @ 1220

MW-6S Sampled @ 12.94, MW6D Sampled @ 1245.

Packed samples, put tools away & trash. Shipped Samples via Fed Ex.

Back @ office @ 1330

Begin Mileage = 25739

End Mileage = 25783

Donna J. Kirk

Attachment 2

Graphical Trend Analysis

MW-1S

MW-1D

MW-2S

MW-2D

MW-3S

MW-3D

MW-4S

MW-4D

MW-5S

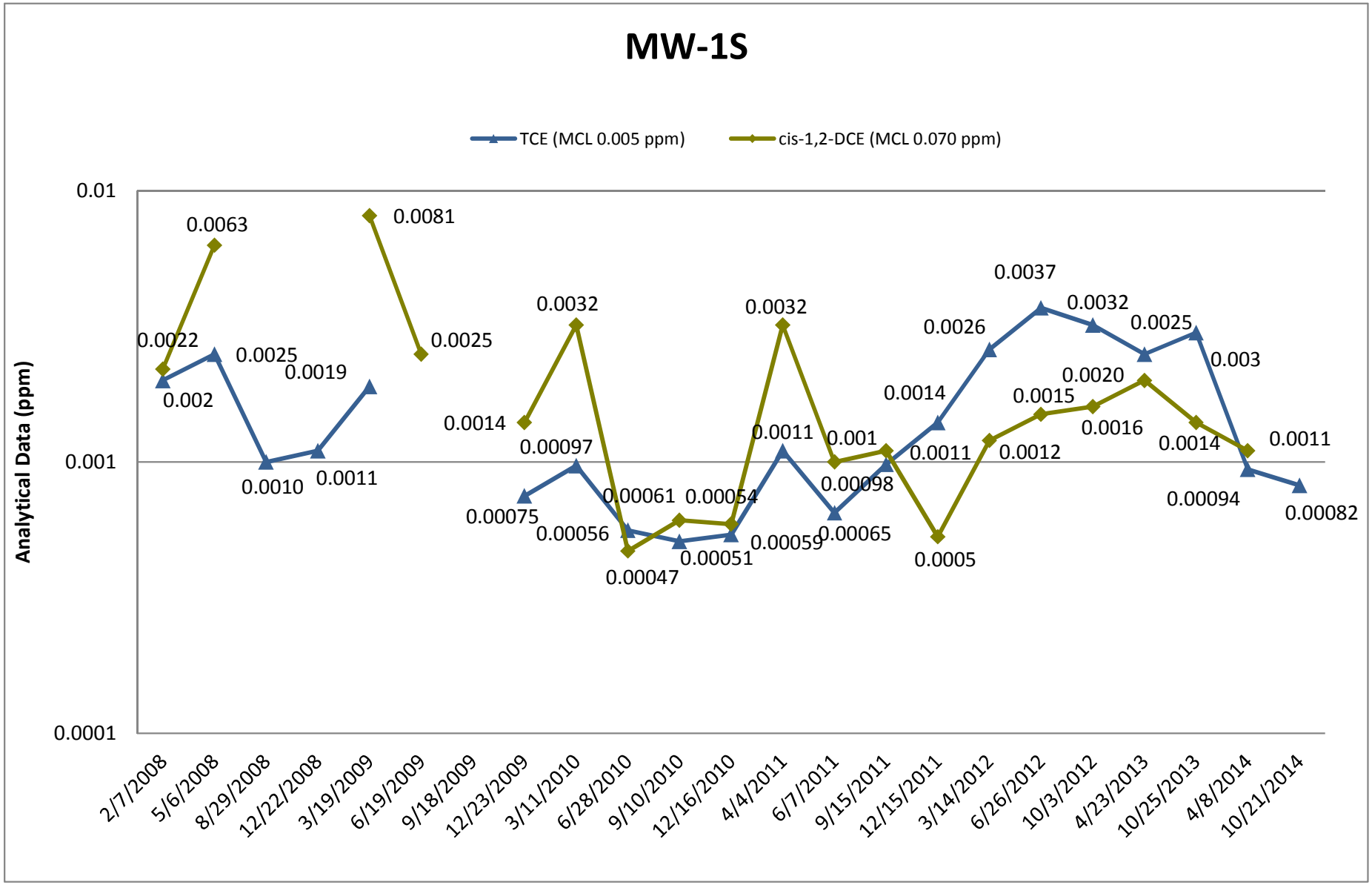
MW-5D

MW-6S

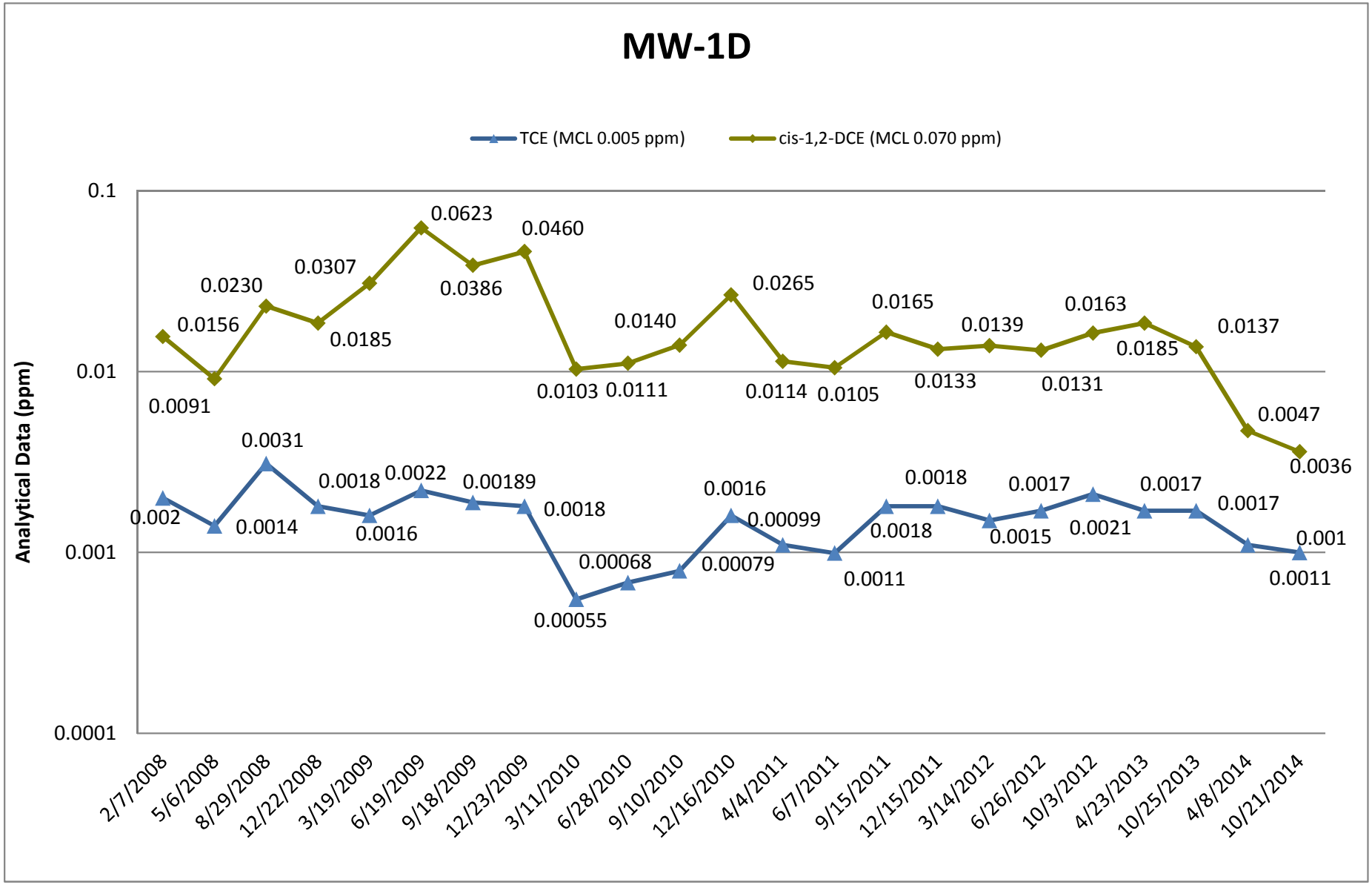
MW-6D

Note: Breaks in data graphs indicate that the analyte was not detected.

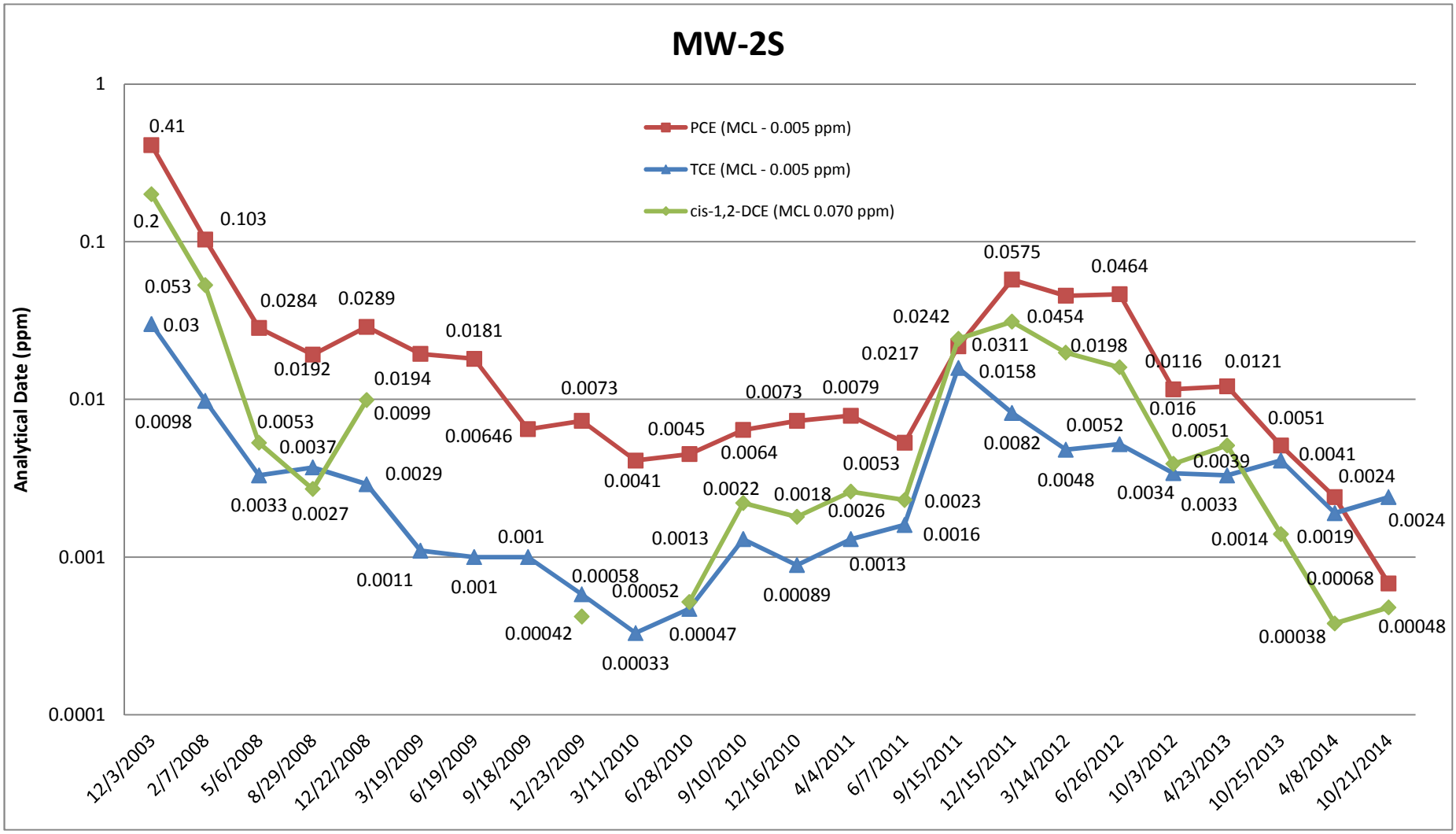
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



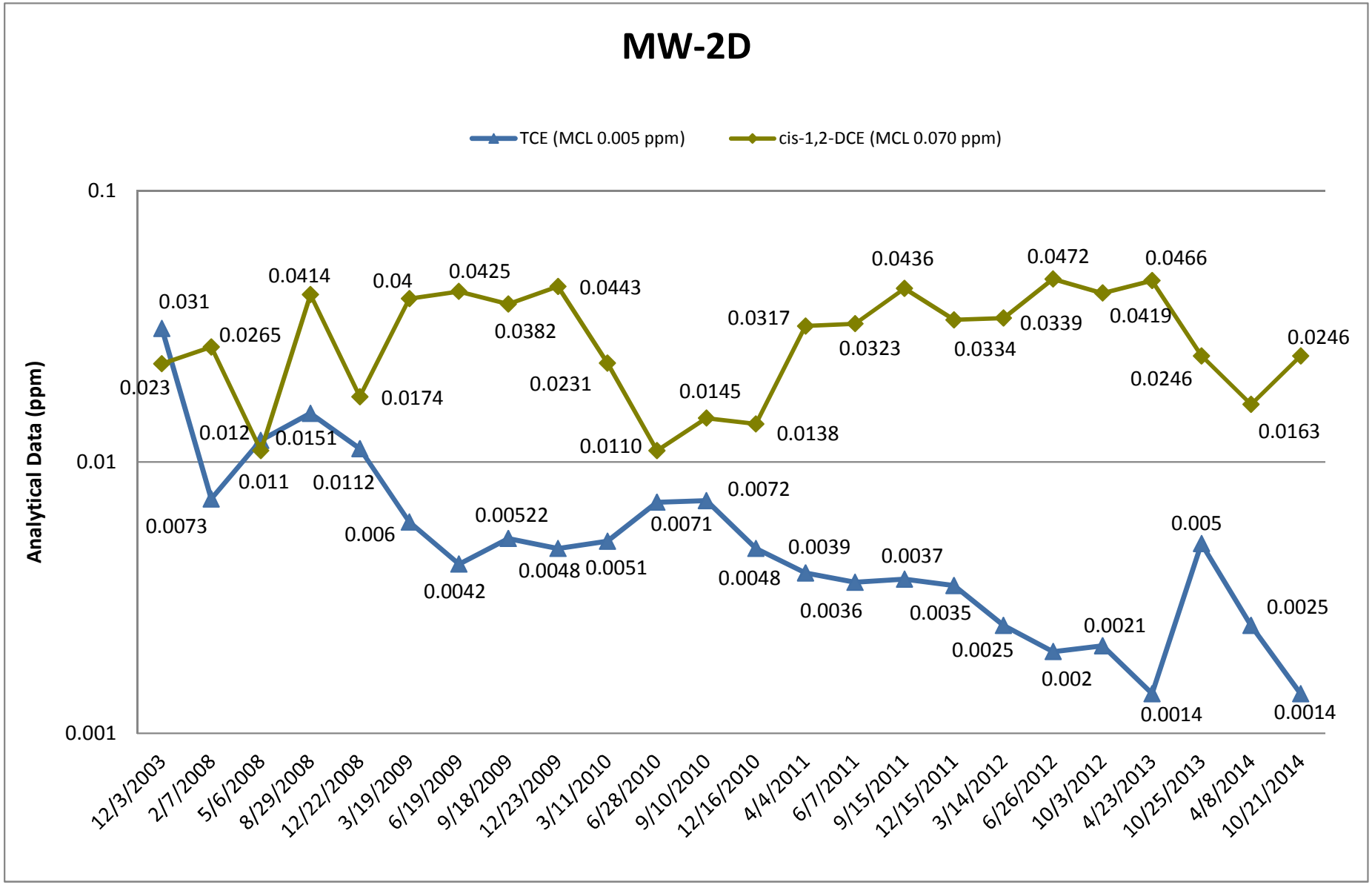
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



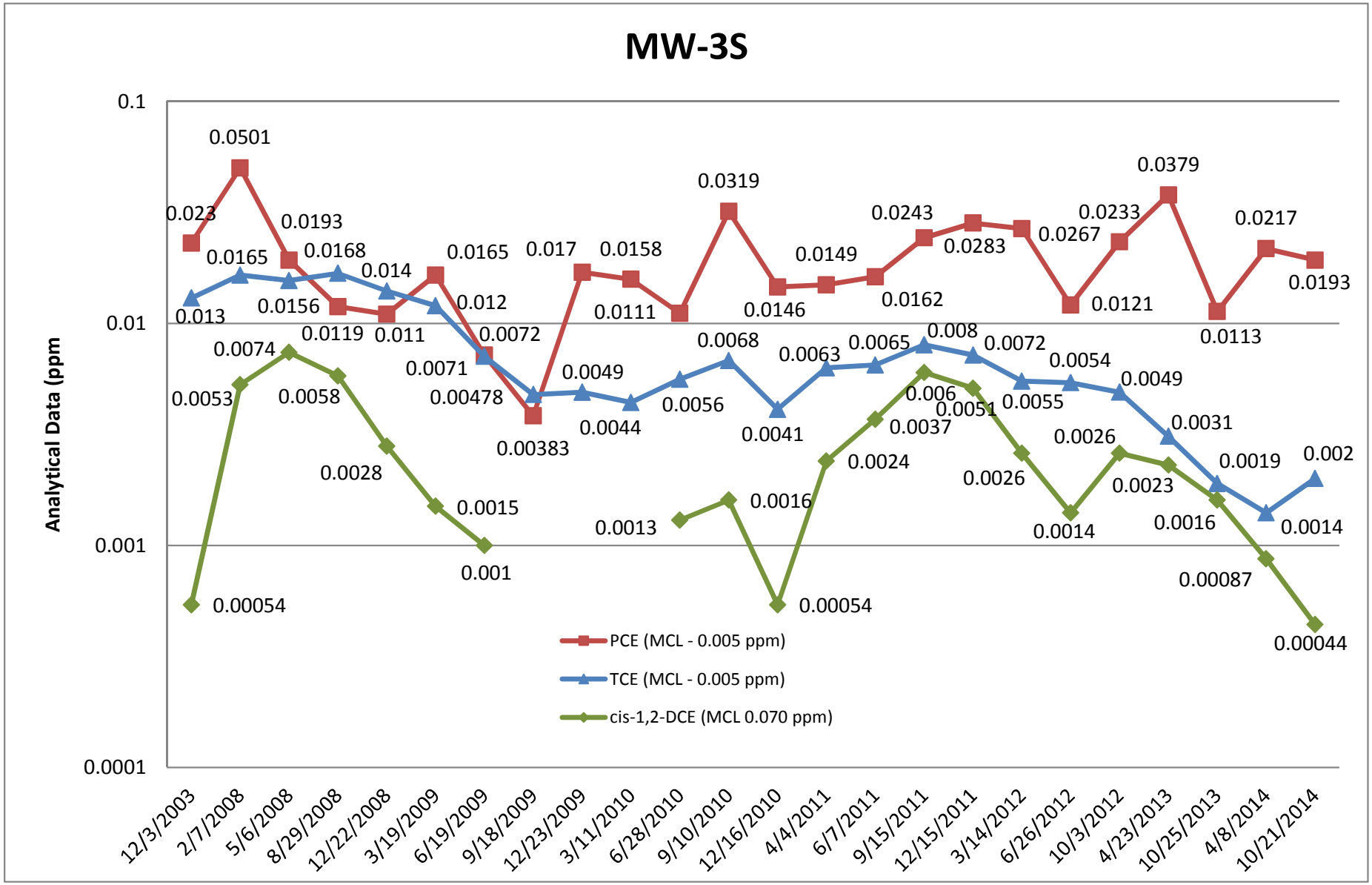
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



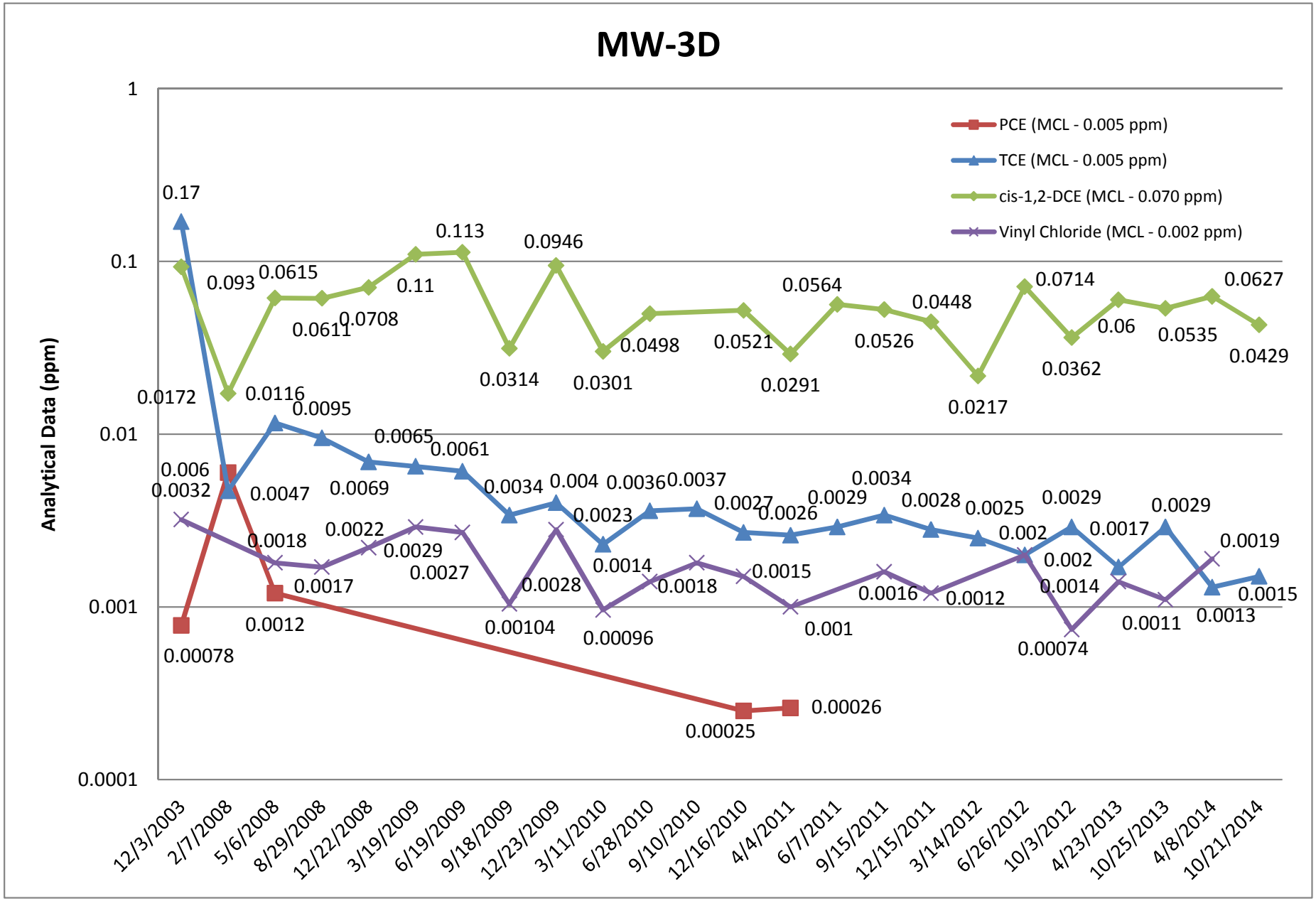
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



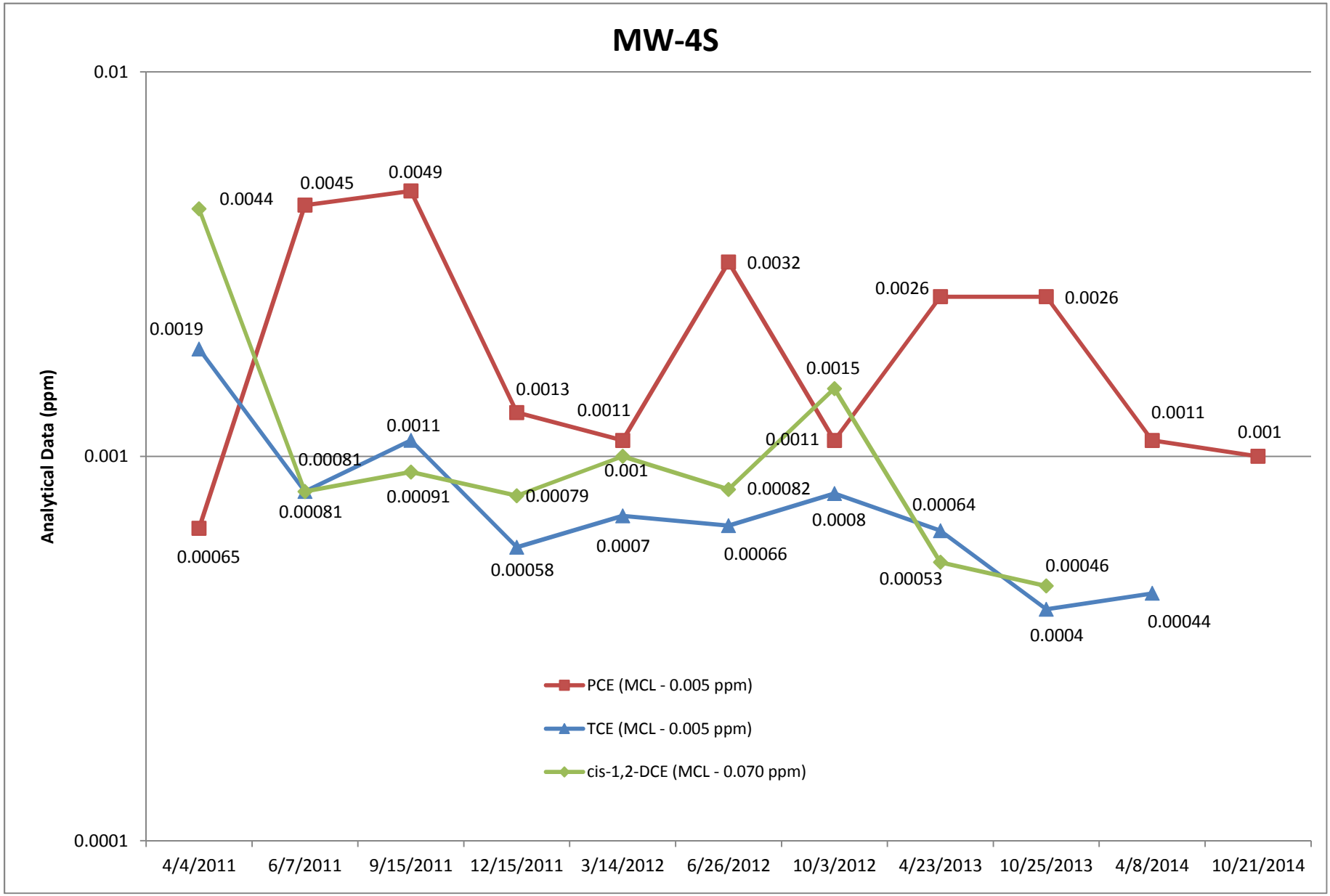
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



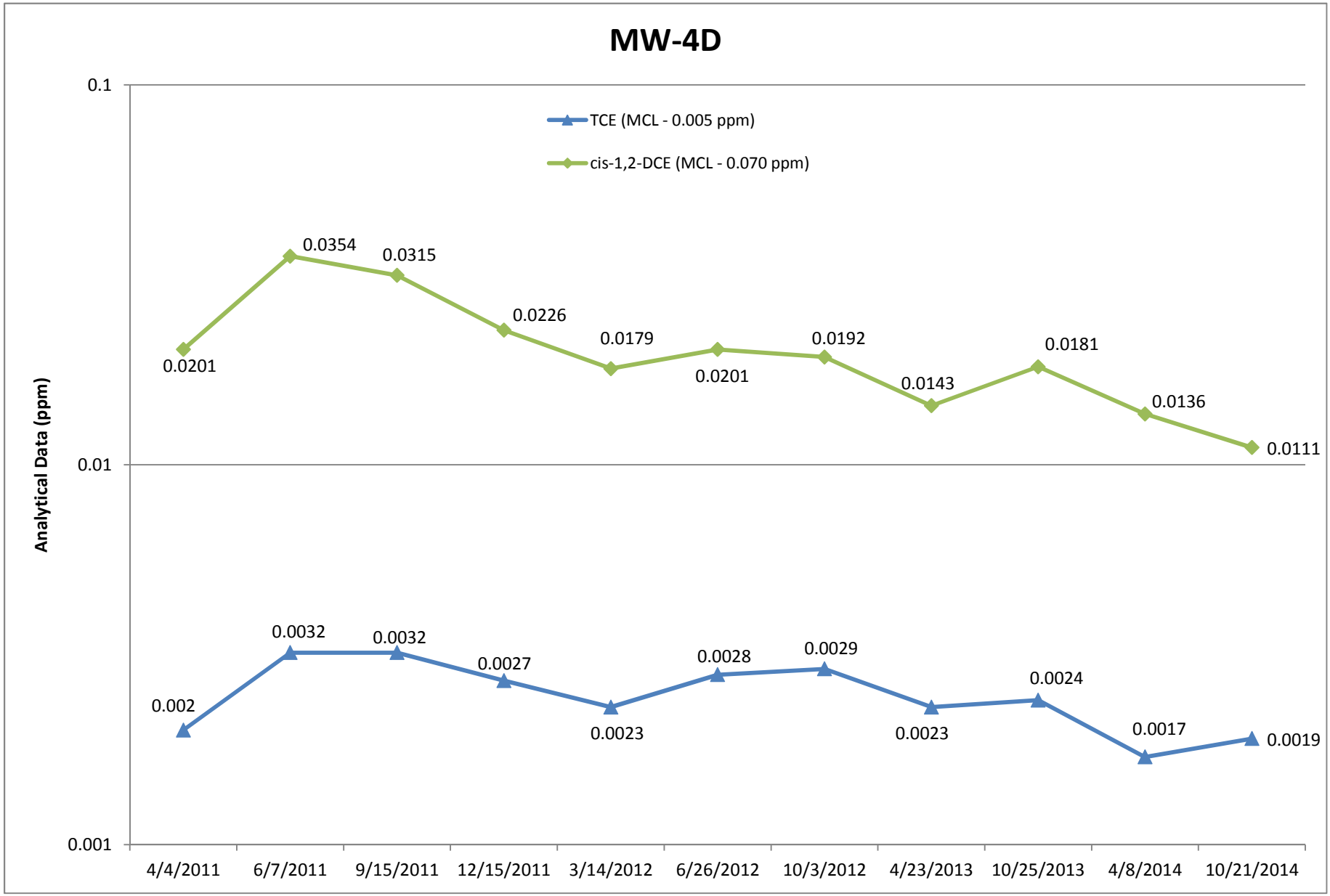
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



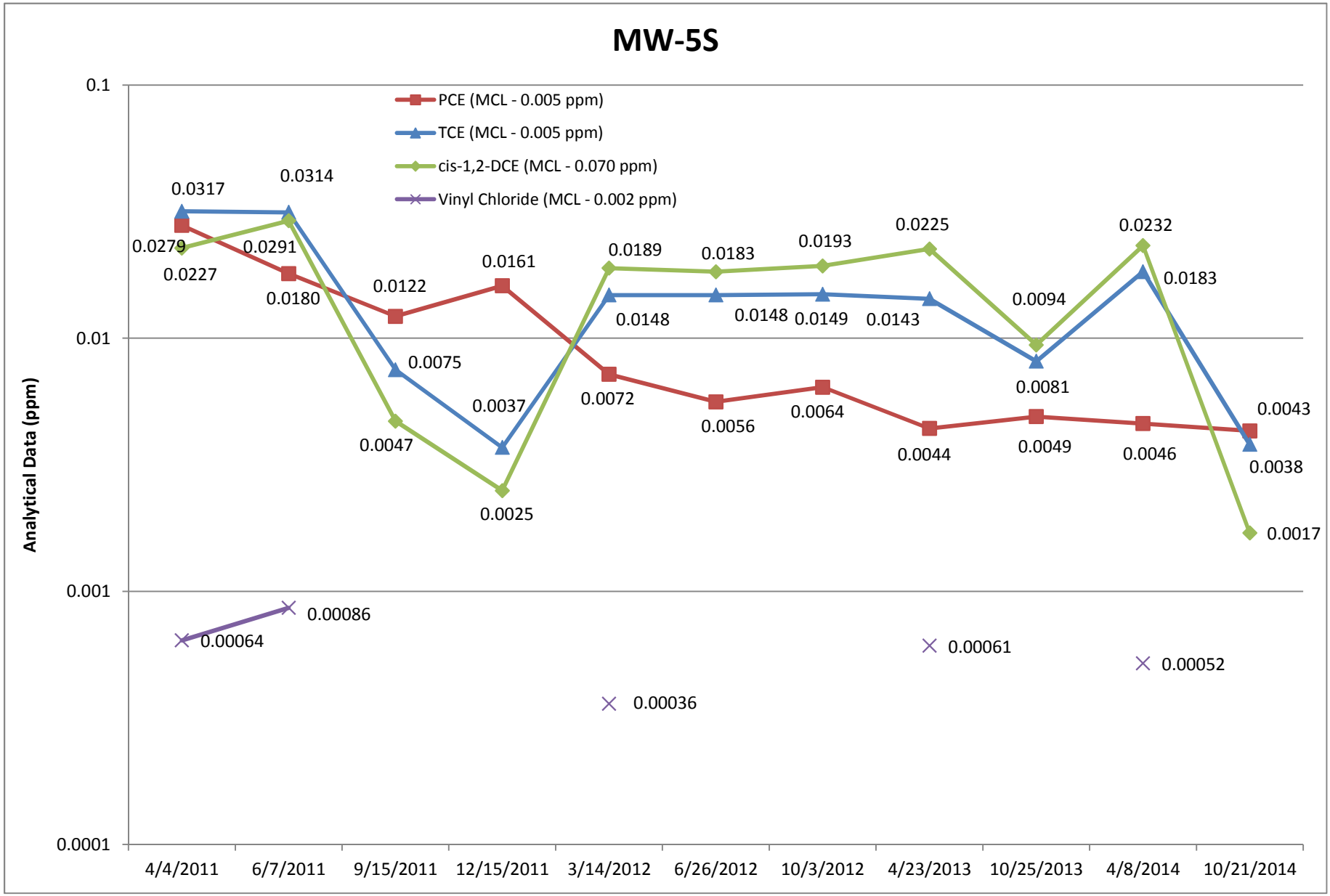
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



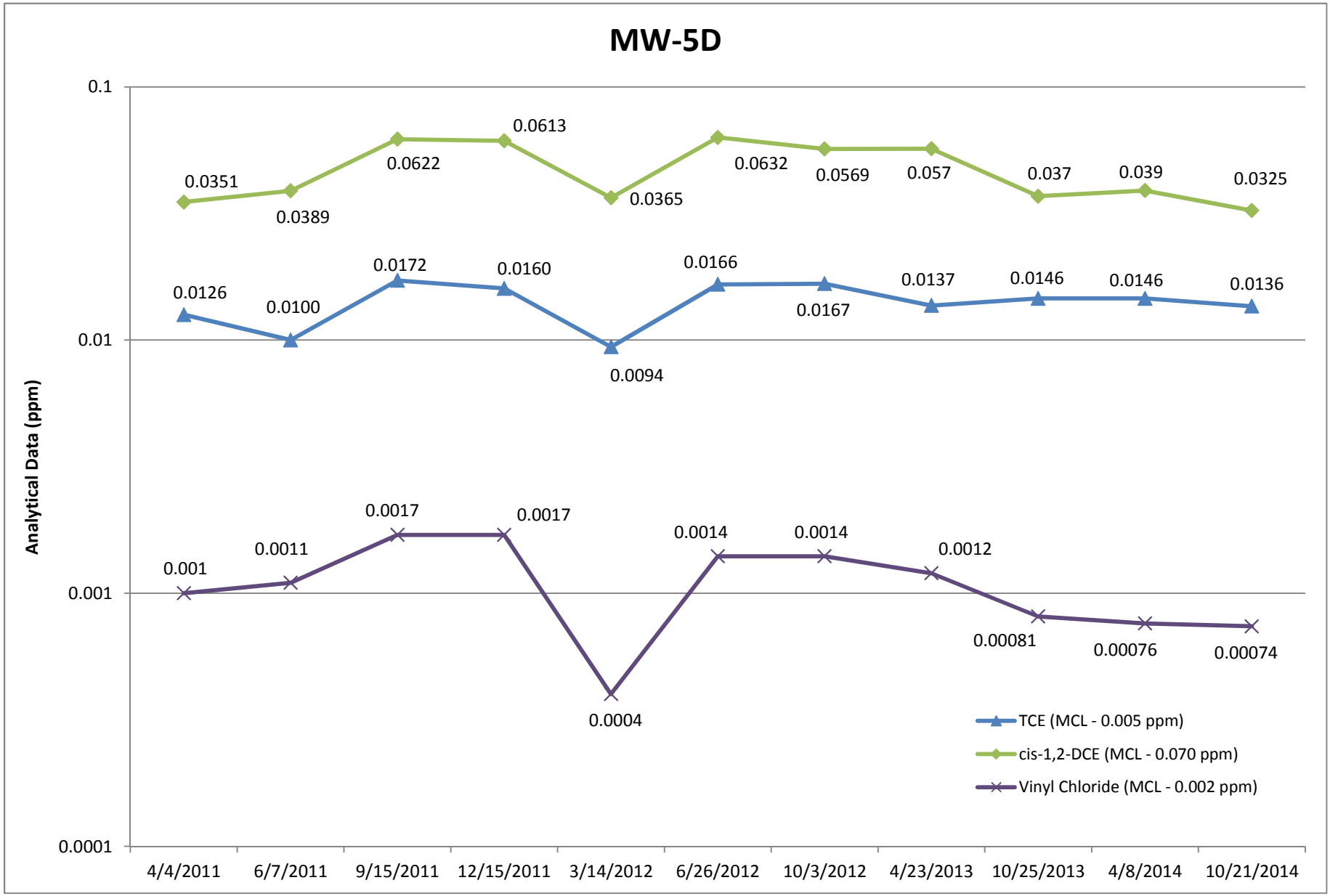
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



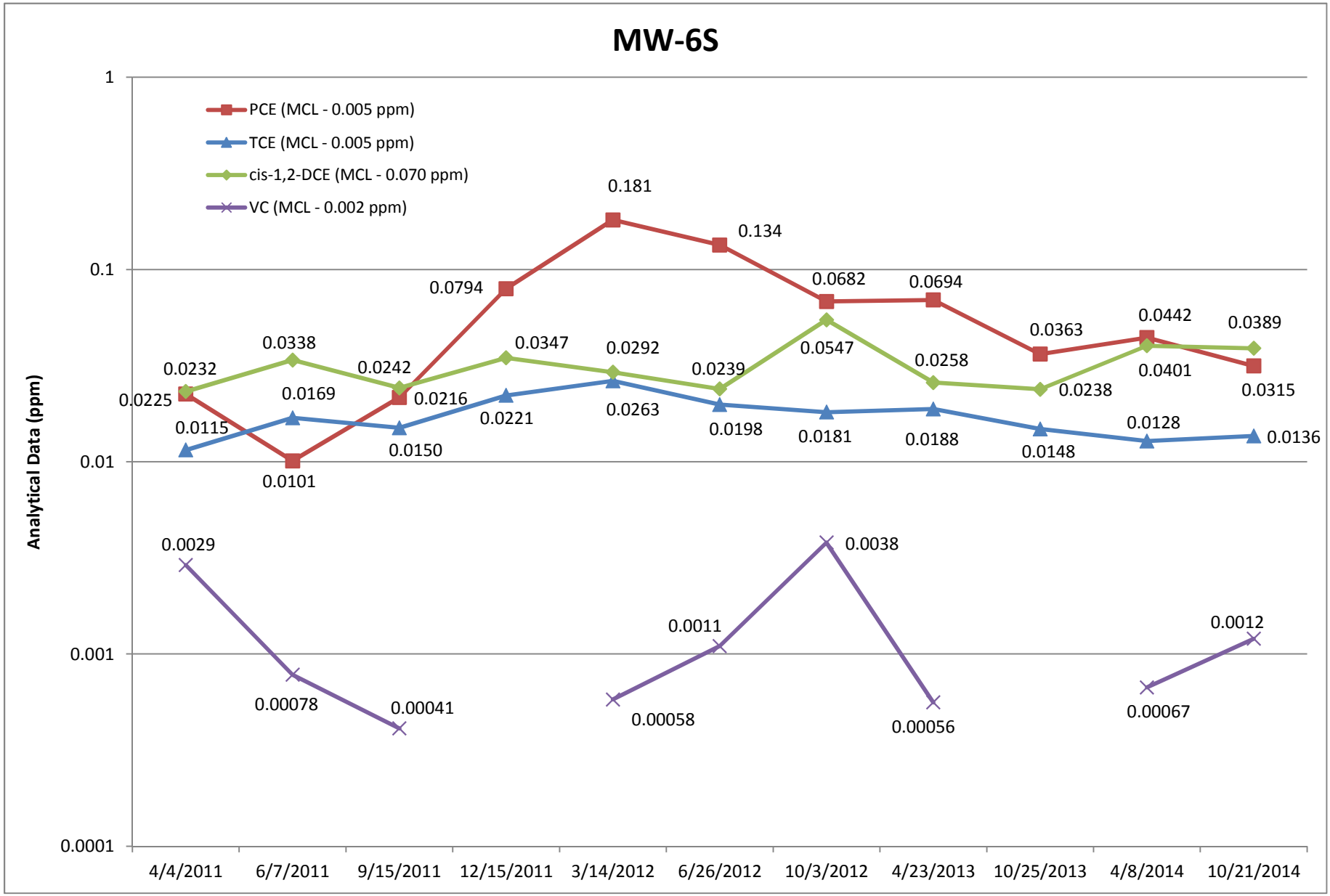
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



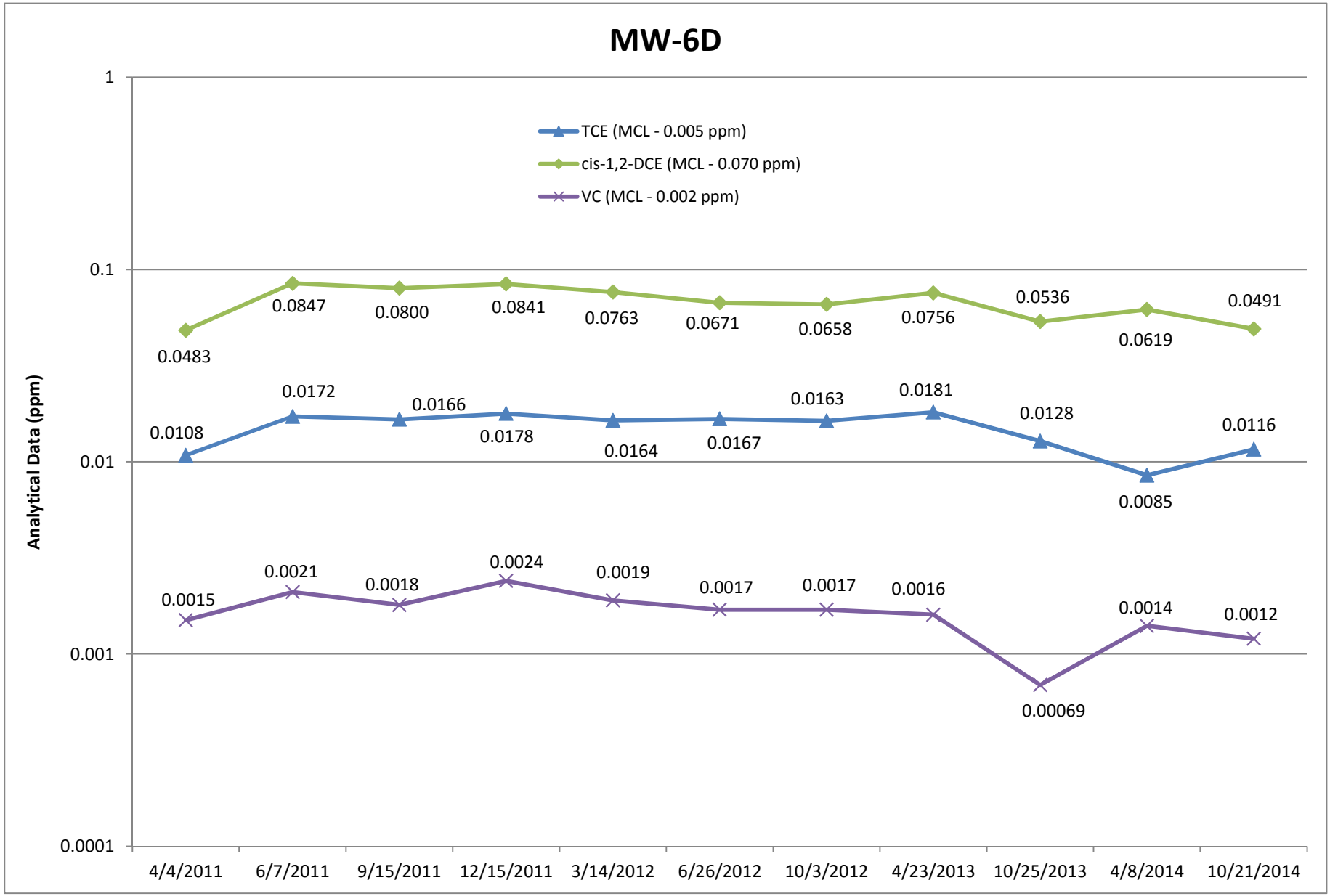
Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



Trend Analysis Graph
Through October 2014
Brenntag Southwest, Inc.
Wichita, KS



Attachment 3
Analytical Data & Validation

Southeast ACCUTEST LABORATORIES

11/05/14

Technical Report for

Geotechnical Services Inc

Brenntag; 1520 N Barwise, Wichita, KS

087013

Accutest Job Number: FA19285

Sampling Date: 10/21/14

Report to:

GSI
4503 E 47th St S
Wichita, KS 67210
droy@gsinetwork.com; kris.gamble@foth.com

ATTN: Doug Roy

Total number of pages in report: **92**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Geotechnical Services Inc

Job No: FA19285

Brenntag; 1520 N Barwise, Wichita, KS
Project No: 087013

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA19285-1	10/21/14	10:00	DK	10/22/14	AQ	Ground Water	MW-1S
FA19285-2	10/21/14	10:05	DK	10/22/14	AQ	Ground Water	MW-1D
FA19285-3	10/21/14	10:30	DK	10/22/14	AQ	Ground Water	MW-2S
FA19285-4	10/21/14	10:35	DK	10/22/14	AQ	Ground Water	MW-2D
FA19285-5	10/21/14	11:10	DK	10/22/14	AQ	Ground Water	MW-3S
FA19285-6	10/21/14	11:15	DK	10/22/14	AQ	Ground Water	MW-3D
FA19285-7	10/21/14	11:35	DK	10/22/14	AQ	Ground Water	MW-4S
FA19285-8	10/21/14	11:40	DK	10/22/14	AQ	Ground Water	MW-4D
FA19285-9	10/21/14	12:15	DK	10/22/14	AQ	Ground Water	MW-5S
FA19285-10	10/21/14	12:20	DK	10/22/14	AQ	Ground Water	MW-5D
FA19285-11	10/21/14	12:40	DK	10/22/14	AQ	Ground Water	MW-6S
FA19285-12	10/21/14	12:45	DK	10/22/14	AQ	Ground Water	MW-6D
FA19285-13	10/21/14	00:00	DK	10/22/14	AQ	Ground Water	BLIND DUP-S

Sample Summary
(continued)

Geotechnical Services Inc

Job No: FA19285

Brenntag; 1520 N Barwise, Wichita, KS
Project No: 087013

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA19285-14	10/21/14	00:00	DK	10/22/14	AQ	Ground Water	BLIND DUP-D
FA19285-15	10/21/14	00:00	DK	10/22/14	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA19285
Account: Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS
Collected: 10/21/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA19285-1	**MW-1S**					
Trichloroethylene		0.00082 J	0.0010	0.00030	mg/l	SW846 8260B
FA19285-2	**MW-1D**					
cis-1,2-Dichloroethylene		0.0036	0.0010	0.00033	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0036	0.0020	0.00067	mg/l	SW846 8260B
Trichloroethylene		0.0010	0.0010	0.00030	mg/l	SW846 8260B
FA19285-3	**MW-2S**					
cis-1,2-Dichloroethylene		0.00048 J	0.0010	0.00033	mg/l	SW846 8260B
Tetrachloroethylene		0.00068 J	0.0010	0.00026	mg/l	SW846 8260B
Trichloroethylene		0.0024	0.0010	0.00030	mg/l	SW846 8260B
FA19285-4	**MW-2D**					
Benzene		0.00024 J	0.0010	0.00024	mg/l	SW846 8260B
1,1-Dichloroethane		0.00042 J	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethylene		0.00058 J	0.0010	0.00025	mg/l	SW846 8260B
cis-1,2-Dichloroethylene		0.0246	0.0010	0.00033	mg/l	SW846 8260B
trans-1,2-Dichloroethylene		0.00052 J	0.0010	0.00034	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0252	0.0020	0.00067	mg/l	SW846 8260B
Trichloroethylene		0.0014	0.0010	0.00030	mg/l	SW846 8260B
Vinyl chloride		0.0016	0.0010	0.00033	mg/l	SW846 8260B
FA19285-5	**MW-3S**					
cis-1,2-Dichloroethylene		0.00044 J	0.0010	0.00033	mg/l	SW846 8260B
1,1,1-Trichloroethane		0.00059 J	0.0010	0.00034	mg/l	SW846 8260B
Tetrachloroethylene		0.0193	0.0010	0.00026	mg/l	SW846 8260B
Trichloroethylene		0.0020	0.0010	0.00030	mg/l	SW846 8260B
FA19285-6	**MW-3D**					
1,1-Dichloroethylene		0.00095 J	0.0010	0.00025	mg/l	SW846 8260B
cis-1,2-Dichloroethylene		0.0429	0.0010	0.00033	mg/l	SW846 8260B
trans-1,2-Dichloroethylene		0.00087 J	0.0010	0.00034	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0438	0.0020	0.00067	mg/l	SW846 8260B
Trichloroethylene		0.0015	0.0010	0.00030	mg/l	SW846 8260B
FA19285-7	**MW-4S**					
Tetrachloroethylene		0.0010	0.0010	0.00026	mg/l	SW846 8260B

Summary of Hits

Job Number: FA19285
Account: Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS
Collected: 10/21/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA19285-8	**MW-4D**					
cis-1,2-Dichloroethylene		0.0111	0.0010	0.00033	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0111	0.0020	0.00067	mg/l	SW846 8260B
Trichloroethylene		0.0019	0.0010	0.00030	mg/l	SW846 8260B
FA19285-9	**MW-5S**					
cis-1,2-Dichloroethylene		0.0017	0.0010	0.00033	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0017 J	0.0020	0.00067	mg/l	SW846 8260B
Tetrachloroethylene		0.0043	0.0010	0.00026	mg/l	SW846 8260B
Trichloroethylene		0.0038	0.0010	0.00030	mg/l	SW846 8260B
FA19285-10	**MW-5D**					
1,1-Dichloroethane		0.00032 J	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethylene		0.00095 J	0.0010	0.00025	mg/l	SW846 8260B
cis-1,2-Dichloroethylene		0.0325	0.0010	0.00033	mg/l	SW846 8260B
trans-1,2-Dichloroethylene		0.00084 J	0.0010	0.00034	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0333	0.0020	0.00067	mg/l	SW846 8260B
Tetrachloroethylene		0.00064 J	0.0010	0.00026	mg/l	SW846 8260B
Trichloroethylene		0.0136	0.0010	0.00030	mg/l	SW846 8260B
Vinyl chloride		0.00074 J	0.0010	0.00033	mg/l	SW846 8260B
FA19285-11	**MW-6S**					
1,1-Dichloroethane		0.00040 J	0.0010	0.00026	mg/l	SW846 8260B
cis-1,2-Dichloroethylene		0.0389	0.0010	0.00033	mg/l	SW846 8260B
trans-1,2-Dichloroethylene		0.0011	0.0010	0.00034	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0400	0.0020	0.00067	mg/l	SW846 8260B
Tetrachloroethylene		0.0315	0.0010	0.00026	mg/l	SW846 8260B
Trichloroethylene		0.0136	0.0010	0.00030	mg/l	SW846 8260B
Vinyl chloride		0.0012	0.0010	0.00033	mg/l	SW846 8260B
FA19285-12	**MW-6D**					
1,1-Dichloroethane		0.00057 J	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethylene		0.0013	0.0010	0.00025	mg/l	SW846 8260B
cis-1,2-Dichloroethylene		0.0491	0.0010	0.00033	mg/l	SW846 8260B
trans-1,2-Dichloroethylene		0.00091 J	0.0010	0.00034	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0500	0.0020	0.00067	mg/l	SW846 8260B
Trichloroethylene		0.0116	0.0010	0.00030	mg/l	SW846 8260B
Vinyl chloride		0.0012	0.0010	0.00033	mg/l	SW846 8260B

Summary of Hits

Job Number: FA19285
Account: Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS
Collected: 10/21/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA19285-13	**BLIND DUP-S**					
1,1,1-Trichloroethane		0.00069 J	0.0010	0.00034	mg/l	SW846 8260B
Tetrachloroethylene		0.0211	0.0010	0.00026	mg/l	SW846 8260B
Trichloroethylene		0.0015	0.0010	0.00030	mg/l	SW846 8260B
FA19285-14	**BLIND DUP-D**					
1,1-Dichloroethane		0.00045 J	0.0010	0.00026	mg/l	SW846 8260B
1,1-Dichloroethylene		0.0010	0.0010	0.00025	mg/l	SW846 8260B
cis-1,2-Dichloroethylene		0.0397	0.0010	0.00033	mg/l	SW846 8260B
trans-1,2-Dichloroethylene		0.00087 J	0.0010	0.00034	mg/l	SW846 8260B
1,2-Dichloroethene (total)		0.0406	0.0020	0.00067	mg/l	SW846 8260B
Trichloroethylene		0.0016	0.0010	0.00030	mg/l	SW846 8260B
FA19285-15	**TRIP BLANK**					
Toluene		0.00035 J	0.0010	0.00020	mg/l	SW846 8260B

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	FA19285-1	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78362.D	1	10/27/14	RB	n/a	n/a	VM3313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	FA19285-1	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.00082	0.0010	0.00030	mg/l	J
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1S		
Lab Sample ID:	FA19285-1	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	FA19285-2	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78363.D	1	10/27/14	RB	n/a	n/a	VM3313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0036	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	FA19285-2	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0036	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0010	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	FA19285-2	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	FA19285-3	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78364.D	1	10/27/14	RB	n/a	n/a	VM3313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00048	0.0010	0.00033	mg/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	FA19285-3	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.00068	0.0010	0.00026	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0024	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	FA19285-3	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	FA19285-4	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78365.D	1	10/27/14	RB	n/a	n/a	VM3313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	0.00024	0.0010	0.00024	mg/l	J
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	0.00042	0.0010	0.00026	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00058	0.0010	0.00025	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0246	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	FA19285-4	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00052	0.0010	0.00034	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0252	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0014	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0016	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	FA19285-4	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3S		
Lab Sample ID:	FA19285-5	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78428.D	1	10/28/14	RB	n/a	n/a	VM3316
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00044	0.0010	0.00033	mg/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3S		
Lab Sample ID:	FA19285-5	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00059	0.0010	0.00034	mg/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.0193	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0020	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3D		
Lab Sample ID:	FA19285-6	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78429.D	1	10/28/14	RB	n/a	n/a	VM3316
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	0.00095	0.0010	0.00025	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0429	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3D		
Lab Sample ID:	FA19285-6	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00087	0.0010	0.00034	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0438	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0015	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	FA19285-7	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78430.D	1	10/28/14	RB	n/a	n/a	VM3316
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4S		
Lab Sample ID:	FA19285-7	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.0010	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4D		
Lab Sample ID:	FA19285-8	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78388.D	1	10/27/14	RB	n/a	n/a	VM3315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0111	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4D		
Lab Sample ID:	FA19285-8	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0111	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0019	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4D		
Lab Sample ID:	FA19285-8	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S		
Lab Sample ID:	FA19285-9	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78389.D	1	10/27/14	RB	n/a	n/a	VM3315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0017	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S		
Lab Sample ID:	FA19285-9	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0017	0.0020	0.00067	mg/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.0043	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0038	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S		
Lab Sample ID:	FA19285-9	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D		
Lab Sample ID:	FA19285-10	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78390.D	1	10/27/14	RB	n/a	n/a	VM3315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	0.00032	0.0010	0.00026	mg/l	J
75-35-4	1,1-Dichloroethylene	0.00095	0.0010	0.00025	mg/l	J
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0325	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D		
Lab Sample ID:	FA19285-10	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00084	0.0010	0.00034	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0333	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.00064	0.0010	0.00026	mg/l	J
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0136	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.00074	0.0010	0.00033	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D		
Lab Sample ID:	FA19285-10	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	FA19285-11	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78391.D	1	10/27/14	RB	n/a	n/a	VM3315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	0.00040	0.0010	0.00026	mg/l	J
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0389	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	FA19285-11	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.0011	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	0.0400	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.0315	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0136	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0012	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S		
Lab Sample ID:	FA19285-11	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D		
Lab Sample ID:	FA19285-12	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78392.D	1	10/27/14	RB	n/a	n/a	VM3315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	0.00057	0.0010	0.00026	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0013	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0491	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D		
Lab Sample ID:	FA19285-12	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00091	0.0010	0.00034	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0500	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0116	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	0.0012	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D		
Lab Sample ID:	FA19285-12	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BLIND DUP-S		
Lab Sample ID:	FA19285-13	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78621.D	1	11/01/14	RB	n/a	n/a	VM3326
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BLIND DUP-S		
Lab Sample ID:	FA19285-13	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00069	0.0010	0.00034	mg/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	0.0211	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0015	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	86%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BLIND DUP-S		
Lab Sample ID:	FA19285-13	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BLIND DUP-D		
Lab Sample ID:	FA19285-14	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78622.D	1	11/01/14	RB	n/a	n/a	VM3326
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [a]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	0.00045	0.0010	0.00026	mg/l	J
75-35-4	1,1-Dichloroethylene	0.0010	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.0397	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BLIND DUP-D		
Lab Sample ID:	FA19285-14	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.00087	0.0010	0.00034	mg/l	J
540-59-0	1,2-Dichloroethene (total)	0.0406	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
79-01-6	Trichloroethylene	0.0016	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BLIND DUP-D		
Lab Sample ID:	FA19285-14	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA19285-15	**Date Sampled:**	10/21/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M78620.D	1	11/01/14	RB	n/a	n/a	VM3326
Run #2 [a]	N0080696.D	1	11/05/14	RB	n/a	n/a	VN3555

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.011	mg/l	
71-43-2	Benzene	ND	0.0010	0.00024	mg/l	
108-86-1	Bromobenzene	ND	0.0010	0.00031	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00038	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00026	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00038	mg/l	
104-51-8	n-Butylbenzene	ND	0.0010	0.00030	mg/l	
135-98-8	sec-Butylbenzene	ND	0.0010	0.00027	mg/l	
98-06-6	tert-Butylbenzene	ND	0.0010	0.00029	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00024	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00050	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00031	mg/l	
95-49-8	o-Chlorotoluene	ND	0.0010	0.00023	mg/l	
106-43-4	p-Chlorotoluene	ND	0.0010	0.00029	mg/l	
75-15-0	Carbon disulfide [b]	ND	0.0020	0.00020	mg/l	
56-23-5	Carbon tetrachloride	ND	0.0010	0.00040	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00025	mg/l	
563-58-6	1,1-Dichloropropene	ND	0.0010	0.00028	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00078	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00024	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00024	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00036	mg/l	
142-28-9	1,3-Dichloropropane	ND	0.0010	0.00034	mg/l	
594-20-7	2,2-Dichloropropane	ND	0.0010	0.00033	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00036	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00033	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
541-73-1	m-Dichlorobenzene	ND	0.0010	0.00020	mg/l	
95-50-1	o-Dichlorobenzene	ND	0.0010	0.00029	mg/l	
106-46-7	p-Dichlorobenzene	ND	0.0010	0.00020	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA19285-15	**Date Sampled:**	10/21/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00034	mg/l	
540-59-0	1,2-Dichloroethene (total)	ND	0.0020	0.00067	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00021	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00028	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0020	0.00050	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00020	mg/l	
99-87-6	p-Isopropyltoluene	ND	0.0010	0.00024	mg/l	
108-10-1	4-Methyl-2-pentanone	ND	0.0050	0.0010	mg/l	
74-83-9	Methyl bromide	ND	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	ND	0.0020	0.00053	mg/l	
74-95-3	Methylene bromide	ND	0.0020	0.00029	mg/l	
75-09-2	Methylene chloride	ND	0.0050	0.0020	mg/l	
78-93-3	Methyl ethyl ketone	ND	0.0050	0.0015	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
91-20-3	Naphthalene	ND	0.0030	0.0010	mg/l	
103-65-1	n-Propylbenzene	ND	0.0010	0.00024	mg/l	
100-42-5	Styrene	ND	0.0010	0.00023	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	0.00025	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00034	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00027	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00032	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
96-18-4	1,2,3-Trichloropropane	ND	0.0020	0.00057	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0010	0.00050	mg/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	0.00024	mg/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	0.00020	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00026	mg/l	
108-88-3	Toluene	0.00035	0.0010	0.00020	mg/l	J
79-01-6	Trichloroethylene	ND	0.0010	0.00030	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl chloride	ND	0.0010	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.00066	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	105%	79-125%
2037-26-5	Toluene-D8	99%	98%	85-112%
460-00-4	4-Bromofluorobenzene	90%	102%	83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA19285-15	**Date Sampled:**	10/21/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Brenntag; 1520 N Barwise, Wichita, KS		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Confirmation run for internal standard areas.
(b) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA19285 PAGE 1 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Foth Infrastructure & Enviro.
Address: 1005 N. Boonville
City: Springfield State: MO. Zip: 65806
Project Contact: Kris Gamble E-mail: kris@foth.com
Phone#: 417-864-6444
Sampler(s) Name(s) (Printed): Donna J. Kurtz

Project Information

Project Name: Brenntag
Street: 1520 N. Barwise
City: Wichita State: Kansas
Project #: 087013
Fax #: 316-554-0744
Client Purchase Order #:

Analytical Information

8260 VOC

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	8260 VOC	Lab Use Only
1	MW-1S	10/21/14	1000	DK	GW	3			X							X	
2	MW-1D	↑	1005	↑	↑	3			X							X	
3	MW-2S		1030			3			X							X	
4	MW-2D		1035			3			X							X	
5	MW-3S		1110			3			X							X	
6	MW-3D		1115			3			X							X	
7	MW-4S		1135			3			X							X	
8	MW-4D		1140			3			X							X	
9	MW-5S		1215			3			X							X	
10	MW-5D		1220			3			X							X	
11	MW-6S	↓	1240	↓	↓	3			X							X	
12	MW-6D	10/21/14	1245	DK	GW	3			X							X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [X] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Donna J. Kurtz	10/21/14 1330	2 FX	3 FX	10-22-14	4 J. Crane (AVE) 09:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2-8

4.1 4

FA19285: Chain of Custody
Page 1 of 4

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA19285 PAGE 2 OF 2

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: FOTH INFRASTRUCTURE & ENVIRO.
Address: 605 N. BOONVILLE
City: SPRINGFIELD State: MO. Zip: 65806
Project Contact: KRIS GAMBLE E-mail: KRIS@foth.com
Phone#: 417-864-6444
Sampler(s) Name(s) (Printed): DONNA J. KURTZ

Project Information

Project Name: BRENNTAG
Street: 1520 N. BARWISE
City: WICHITA State: KANSAS
Project #: 087013
Fax #: 316-554-0744
Client Purchase Order #:

Analytical Information

SW 8260 BTEX VOCS

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	Cl WATER	MeOH	SW 8260 BTEX VOCS	LAB USE ONLY
13	BLIND DUP-S	10/21/14	—	DK	GW	3			X							X	
14	BLIND DUP-D	10/21/14	—	DK	GW	3			X							X	
15	TRIPBLANKS	10/21/14	—	DK	GW	2			X							X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1. Donna J. Kurtz	10/21/14 1330	2 FX	3 FX	10-22-14	4 Cooper (ABC) 09:00
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

4.1
4

FA19285: Chain of Custody
Page 2 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 19285 CLIENT: FOTH INFRASTRUCTURE PROJECT: BRENNTAG

DATE/TIME RECEIVED: 10-22-14 09:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 3005

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 10-22-14 REVIEWER SIGNATURE/DATE 10-22-14

RS 04/14 receipt confirmation 041514.xls

FA19285: Chain of Custody

Page 3 of 4

FedEx Express Package US Airbill 8063 1884 3005

Recipient's Copy

1 From [redacted]

Date 10-21-14

Sender's Name DENNIS J. KUETZ Phone 316 554-0725

Company GST ENGINEERING, LLC

Address 4503 E. 47TH ST. SOUTH

City WICHITA State KS ZIP 67210

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 407 425-6700

Company ACCUTEST LABORATORIES SE, INC

Address 4405 VINELAND RD STE C15

HOLD Weekday

HOLD Saturday

Address

City ORLANDO State FL ZIP 32811-5803

0119442531

8063 1884 3005

4 Express Package Service

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

FedEx 2Day A.M.

5 Packaging

FedEx Envelope*

FedEx Pak*

6 Special Handling and Delivery Signature Options

SATURDAY Delivery

No Signature Required

Direct Signature

Does this shipment contain dangerous goods?

Dry Ice

Cargo Aircraft Only

7 Payment Bill to:

Sender

Recipient

Third Party

Credit Card

Total Packages 1 Total Weight 47

fedex.com 10/ dpc. 1.800.463.3339

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3313-MB	M78355.D	1	10/26/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.67	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3313-MB	M78355.D	1	10/26/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	101%	85-112%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3313-MB	M78355.D	1	10/26/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3315-MB	M78382.D	1	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.67	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3315-MB	M78382.D	1	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	98%	85-112%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3315-MB	M78382.D	1	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	83-118%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3316-MB	M78427.D	1	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.67	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3316-MB	M78427.D	1	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	100%	85-112%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3316-MB	M78427.D	1	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3326-MB	M78607.D	1	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	2.0	0.67	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3326-MB	M78607.D	1	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	97%	85-112%

Method Blank Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3326-MB	M78607.D	1	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	83-118%

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3313-BS	M78356.D	1	10/26/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	168	134	50-147
71-43-2	Benzene	25	25.7	103	81-122
108-86-1	Bromobenzene	25	26.6	106	80-121
74-97-5	Bromochloromethane	25	27.5	110	76-123
75-27-4	Bromodichloromethane	25	24.9	100	79-123
75-25-2	Bromoform	25	23.0	92	66-123
104-51-8	n-Butylbenzene	25	23.8	95	79-126
135-98-8	sec-Butylbenzene	25	28.9	116	83-133
98-06-6	tert-Butylbenzene	25	27.3	109	80-133
108-90-7	Chlorobenzene	25	26.9	108	82-124
75-00-3	Chloroethane	25	27.9	112	62-144
67-66-3	Chloroform	25	27.6	110	80-124
95-49-8	o-Chlorotoluene	25	26.3	105	81-127
106-43-4	p-Chlorotoluene	25	28.5	114	83-130
75-15-0	Carbon disulfide	25	37.7	151*	66-148
56-23-5	Carbon tetrachloride	25	28.7	115	76-136
75-34-3	1,1-Dichloroethane	25	27.4	110	81-122
75-35-4	1,1-Dichloroethylene	25	32.9	132	78-137
563-58-6	1,1-Dichloropropene	25	28.1	112	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	20.0	80	64-123
106-93-4	1,2-Dibromoethane	25	23.3	93	75-120
107-06-2	1,2-Dichloroethane	25	27.0	108	75-125
78-87-5	1,2-Dichloropropane	25	25.0	100	76-124
142-28-9	1,3-Dichloropropane	25	23.6	94	80-118
594-20-7	2,2-Dichloropropane	25	28.3	113	74-139
124-48-1	Dibromochloromethane	25	24.2	97	78-122
75-71-8	Dichlorodifluoromethane	25	30.9	124	42-167
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	78-120
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	75-118
541-73-1	m-Dichlorobenzene	25	27.0	108	84-125
95-50-1	o-Dichlorobenzene	25	26.1	104	82-124
106-46-7	p-Dichlorobenzene	25	25.3	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.1	116	76-127
540-59-0	1,2-Dichloroethene (total)	50	54.0	108	77-122
10061-02-6	trans-1,3-Dichloropropene	25	24.2	97	80-120
100-41-4	Ethylbenzene	25	25.2	101	81-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3313-BS	M78356.D	1	10/26/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	125	100	61-129
87-68-3	Hexachlorobutadiene	25	25.0	100	75-142
98-82-8	Isopropylbenzene	25	27.5	110	83-132
99-87-6	p-Isopropyltoluene	25	27.0	108	79-130
108-10-1	4-Methyl-2-pentanone	125	123	98	66-122
74-83-9	Methyl bromide	25	26.5	106	59-143
74-87-3	Methyl chloride	25	26.0	104	50-159
74-95-3	Methylene bromide	25	24.0	96	78-119
75-09-2	Methylene chloride	25	25.9	104	69-135
78-93-3	Methyl ethyl ketone	125	114	91	56-143
1634-04-4	Methyl Tert Butyl Ether	25	24.7	99	72-117
91-20-3	Naphthalene	25	19.9	80	63-132
103-65-1	n-Propylbenzene	25	26.9	108	82-133
100-42-5	Styrene	25	23.5	94	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	24.3	97	77-122
71-55-6	1,1,1-Trichloroethane	25	27.3	109	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	22.9	92	72-120
79-00-5	1,1,2-Trichloroethane	25	26.6	106	76-119
87-61-6	1,2,3-Trichlorobenzene	25	21.8	87	68-131
96-18-4	1,2,3-Trichloropropane	25	23.5	94	77-120
120-82-1	1,2,4-Trichlorobenzene	25	22.0	88	73-129
95-63-6	1,2,4-Trimethylbenzene	25	25.4	102	79-120
108-67-8	1,3,5-Trimethylbenzene	25	23.7	95	79-120
127-18-4	Tetrachloroethylene	25	23.9	96	76-135
108-88-3	Toluene	25	27.1	108	80-120
79-01-6	Trichloroethylene	25	26.4	106	81-126
75-69-4	Trichlorofluoromethane	25	27.0	108	71-156
75-01-4	Vinyl chloride	25	28.9	116	69-159
1330-20-7	Xylene (total)	75	78.8	105	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	100%	85-112%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3313-BS	M78356.D	1	10/26/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3315-BS	M78380.D	1	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	217	174*	50-147
71-43-2	Benzene	25	24.6	98	81-122
108-86-1	Bromobenzene	25	25.6	102	80-121
74-97-5	Bromochloromethane	25	28.2	113	76-123
75-27-4	Bromodichloromethane	25	23.2	93	79-123
75-25-2	Bromoform	25	22.4	90	66-123
104-51-8	n-Butylbenzene	25	21.9	88	79-126
135-98-8	sec-Butylbenzene	25	27.4	110	83-133
98-06-6	tert-Butylbenzene	25	23.8	95	80-133
108-90-7	Chlorobenzene	25	27.2	109	82-124
75-00-3	Chloroethane	25	34.2	137	62-144
67-66-3	Chloroform	25	27.0	108	80-124
95-49-8	o-Chlorotoluene	25	23.6	94	81-127
106-43-4	p-Chlorotoluene	25	25.2	101	83-130
75-15-0	Carbon disulfide	25	37.2	149*	66-148
56-23-5	Carbon tetrachloride	25	26.6	106	76-136
75-34-3	1,1-Dichloroethane	25	26.5	106	81-122
75-35-4	1,1-Dichloroethylene	25	32.1	128	78-137
563-58-6	1,1-Dichloropropene	25	27.4	110	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	19.6	78	64-123
106-93-4	1,2-Dibromoethane	25	23.2	93	75-120
107-06-2	1,2-Dichloroethane	25	26.3	105	75-125
78-87-5	1,2-Dichloropropane	25	23.5	94	76-124
142-28-9	1,3-Dichloropropane	25	23.2	93	80-118
594-20-7	2,2-Dichloropropane	25	27.5	110	74-139
124-48-1	Dibromochloromethane	25	24.5	98	78-122
75-71-8	Dichlorodifluoromethane	25	37.4	150	42-167
156-59-2	cis-1,2-Dichloroethylene	25	24.1	96	78-120
10061-01-5	cis-1,3-Dichloropropene	25	21.7	87	75-118
541-73-1	m-Dichlorobenzene	25	26.9	108	84-125
95-50-1	o-Dichlorobenzene	25	25.7	103	82-124
106-46-7	p-Dichlorobenzene	25	24.4	98	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.6	110	76-127
540-59-0	1,2-Dichloroethene (total)	50	51.6	103	77-122
10061-02-6	trans-1,3-Dichloropropene	25	23.5	94	80-120
100-41-4	Ethylbenzene	25	25.1	100	81-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3315-BS	M78380.D	1	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	153	122	61-129
87-68-3	Hexachlorobutadiene	25	20.7	83	75-142
98-82-8	Isopropylbenzene	25	27.0	108	83-132
99-87-6	p-Isopropyltoluene	25	24.7	99	79-130
108-10-1	4-Methyl-2-pentanone	125	128	102	66-122
74-83-9	Methyl bromide	25	33.7	135	59-143
74-87-3	Methyl chloride	25	31.2	125	50-159
74-95-3	Methylene bromide	25	22.4	90	78-119
75-09-2	Methylene chloride	25	24.4	98	69-135
78-93-3	Methyl ethyl ketone	125	136	109	56-143
1634-04-4	Methyl Tert Butyl Ether	25	23.7	95	72-117
91-20-3	Naphthalene	25	21.0	84	63-132
103-65-1	n-Propylbenzene	25	24.9	100	82-133
100-42-5	Styrene	25	23.0	92	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	24.9	100	77-122
71-55-6	1,1,1-Trichloroethane	25	27.6	110	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	21.8	87	72-120
79-00-5	1,1,2-Trichloroethane	25	26.4	106	76-119
87-61-6	1,2,3-Trichlorobenzene	25	20.9	84	68-131
96-18-4	1,2,3-Trichloropropane	25	22.9	92	77-120
120-82-1	1,2,4-Trichlorobenzene	25	20.4	82	73-129
95-63-6	1,2,4-Trimethylbenzene	25	23.5	94	79-120
108-67-8	1,3,5-Trimethylbenzene	25	22.1	88	79-120
127-18-4	Tetrachloroethylene	25	25.1	100	76-135
108-88-3	Toluene	25	27.7	111	80-120
79-01-6	Trichloroethylene	25	27.2	109	81-126
75-69-4	Trichlorofluoromethane	25	33.2	133	71-156
75-01-4	Vinyl chloride	25	34.0	136	69-159
1330-20-7	Xylene (total)	75	76.7	102	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	101%	85-112%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3315-BS	M78380.D	1	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	91%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3316-BS	M78425.D	1	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	181	145	50-147
71-43-2	Benzene	25	22.7	91	81-122
108-86-1	Bromobenzene	25	22.8	91	80-121
74-97-5	Bromochloromethane	25	24.3	97	76-123
75-27-4	Bromodichloromethane	25	23.5	94	79-123
75-25-2	Bromoform	25	21.2	85	66-123
104-51-8	n-Butylbenzene	25	24.7	99	79-126
135-98-8	sec-Butylbenzene	25	26.7	107	83-133
98-06-6	tert-Butylbenzene	25	26.1	104	80-133
108-90-7	Chlorobenzene	25	27.5	110	82-124
75-00-3	Chloroethane	25	27.4	110	62-144
67-66-3	Chloroform	25	22.0	88	80-124
95-49-8	o-Chlorotoluene	25	24.8	99	81-127
106-43-4	p-Chlorotoluene	25	25.6	102	83-130
75-15-0	Carbon disulfide	25	32.2	129	66-148
56-23-5	Carbon tetrachloride	25	24.3	97	76-136
75-34-3	1,1-Dichloroethane	25	22.8	91	81-122
75-35-4	1,1-Dichloroethylene	25	28.8	115	78-137
563-58-6	1,1-Dichloropropene	25	27.0	108	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	21.6	86	64-123
106-93-4	1,2-Dibromoethane	25	23.3	93	75-120
107-06-2	1,2-Dichloroethane	25	23.1	92	75-125
78-87-5	1,2-Dichloropropane	25	22.7	91	76-124
142-28-9	1,3-Dichloropropane	25	22.2	89	80-118
594-20-7	2,2-Dichloropropane	25	25.3	101	74-139
124-48-1	Dibromochloromethane	25	23.4	94	78-122
75-71-8	Dichlorodifluoromethane	25	33.1	132	42-167
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	78-120
10061-01-5	cis-1,3-Dichloropropene	25	22.9	92	75-118
541-73-1	m-Dichlorobenzene	25	26.7	107	84-125
95-50-1	o-Dichlorobenzene	25	25.4	102	82-124
106-46-7	p-Dichlorobenzene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.2	101	76-127
540-59-0	1,2-Dichloroethene (total)	50	49.4	99	77-122
10061-02-6	trans-1,3-Dichloropropene	25	24.5	98	80-120
100-41-4	Ethylbenzene	25	23.0	92	81-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3316-BS	M78425.D	1	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	149	119	61-129
87-68-3	Hexachlorobutadiene	25	23.2	93	75-142
98-82-8	Isopropylbenzene	25	27.1	108	83-132
99-87-6	p-Isopropyltoluene	25	26.8	107	79-130
108-10-1	4-Methyl-2-pentanone	125	129	103	66-122
74-83-9	Methyl bromide	25	28.0	112	59-143
74-87-3	Methyl chloride	25	29.0	116	50-159
74-95-3	Methylene bromide	25	22.2	89	78-119
75-09-2	Methylene chloride	25	26.3	105	69-135
78-93-3	Methyl ethyl ketone	125	131	105	56-143
1634-04-4	Methyl Tert Butyl Ether	25	24.4	98	72-117
91-20-3	Naphthalene	25	21.3	85	63-132
103-65-1	n-Propylbenzene	25	26.3	105	82-133
100-42-5	Styrene	25	23.8	95	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	23.1	92	77-122
71-55-6	1,1,1-Trichloroethane	25	24.3	97	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	24.5	98	72-120
79-00-5	1,1,2-Trichloroethane	25	24.9	100	76-119
87-61-6	1,2,3-Trichlorobenzene	25	22.1	88	68-131
96-18-4	1,2,3-Trichloropropane	25	25.1	100	77-120
120-82-1	1,2,4-Trichlorobenzene	25	21.6	86	73-129
95-63-6	1,2,4-Trimethylbenzene	25	24.0	96	79-120
108-67-8	1,3,5-Trimethylbenzene	25	23.6	94	79-120
127-18-4	Tetrachloroethylene	25	24.4	98	76-135
108-88-3	Toluene	25	25.9	104	80-120
79-01-6	Trichloroethylene	25	23.3	93	81-126
75-69-4	Trichlorofluoromethane	25	25.1	100	71-156
75-01-4	Vinyl chloride	25	27.9	112	69-159
1330-20-7	Xylene (total)	75	76.8	102	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	95%	85-112%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3316-BS	M78425.D	1	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3326-BS	M78605.D	1	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	144	115	50-147
71-43-2	Benzene	25	24.4	98	81-122
108-86-1	Bromobenzene	25	23.6	94	80-121
74-97-5	Bromochloromethane	25	27.2	109	76-123
75-27-4	Bromodichloromethane	25	25.7	103	79-123
75-25-2	Bromoform	25	27.9	112	66-123
104-51-8	n-Butylbenzene	25	23.4	94	79-126
135-98-8	sec-Butylbenzene	25	25.3	101	83-133
98-06-6	tert-Butylbenzene	25	24.3	97	80-133
108-90-7	Chlorobenzene	25	28.8	115	82-124
75-00-3	Chloroethane	25	27.4	110	62-144
67-66-3	Chloroform	25	24.8	99	80-124
95-49-8	o-Chlorotoluene	25	23.6	94	81-127
106-43-4	p-Chlorotoluene	25	24.3	97	83-130
75-15-0	Carbon disulfide	25	40.7	163*	66-148
56-23-5	Carbon tetrachloride	25	28.1	112	76-136
75-34-3	1,1-Dichloroethane	25	25.1	100	81-122
75-35-4	1,1-Dichloroethylene	25	32.1	128	78-137
563-58-6	1,1-Dichloropropene	25	29.1	116	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	19.3	77	64-123
106-93-4	1,2-Dibromoethane	25	24.5	98	75-120
107-06-2	1,2-Dichloroethane	25	26.2	105	75-125
78-87-5	1,2-Dichloropropane	25	24.8	99	76-124
142-28-9	1,3-Dichloropropane	25	23.1	92	80-118
594-20-7	2,2-Dichloropropane	25	29.7	119	74-139
124-48-1	Dibromochloromethane	25	25.0	100	78-122
75-71-8	Dichlorodifluoromethane	25	29.7	119	42-167
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	78-120
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	75-118
541-73-1	m-Dichlorobenzene	25	25.6	102	84-125
95-50-1	o-Dichlorobenzene	25	24.2	97	82-124
106-46-7	p-Dichlorobenzene	25	23.9	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.5	106	76-127
540-59-0	1,2-Dichloroethene (total)	50	51.4	103	77-122
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	80-120
100-41-4	Ethylbenzene	25	24.0	96	81-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3326-BS	M78605.D	1	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	135	108	61-129
87-68-3	Hexachlorobutadiene	25	28.1	112	75-142
98-82-8	Isopropylbenzene	25	28.7	115	83-132
99-87-6	p-Isopropyltoluene	25	25.0	100	79-130
108-10-1	4-Methyl-2-pentanone	125	131	105	66-122
74-83-9	Methyl bromide	25	27.4	110	59-143
74-87-3	Methyl chloride	25	27.4	110	50-159
74-95-3	Methylene bromide	25	24.0	96	78-119
75-09-2	Methylene chloride	25	29.6	118	69-135
78-93-3	Methyl ethyl ketone	125	138	110	56-143
1634-04-4	Methyl Tert Butyl Ether	25	25.7	103	72-117
91-20-3	Naphthalene	25	19.7	79	63-132
103-65-1	n-Propylbenzene	25	25.0	100	82-133
100-42-5	Styrene	25	24.2	97	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	25.3	101	77-122
71-55-6	1,1,1-Trichloroethane	25	27.3	109	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	23.0	92	72-120
79-00-5	1,1,2-Trichloroethane	25	26.1	104	76-119
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	68-131
96-18-4	1,2,3-Trichloropropane	25	23.3	93	77-120
120-82-1	1,2,4-Trichlorobenzene	25	22.0	88	73-129
95-63-6	1,2,4-Trimethylbenzene	25	22.0	88	79-120
108-67-8	1,3,5-Trimethylbenzene	25	22.5	90	79-120
127-18-4	Tetrachloroethylene	25	29.5	118	76-135
108-88-3	Toluene	25	26.0	104	80-120
79-01-6	Trichloroethylene	25	25.5	102	81-126
75-69-4	Trichlorofluoromethane	25	27.6	110	71-156
75-01-4	Vinyl chloride	25	27.3	109	69-159
1330-20-7	Xylene (total)	75	80.2	107	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	91%	85-112%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM3326-BS	M78605.D	1	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	87%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19240-1MS	M78375.D	1	10/27/14	RB	n/a	n/a	VM3313
FA19240-1MSD	M78376.D	1	10/27/14	RB	n/a	n/a	VM3313
FA19240-1	M78359.D	1	10/27/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Compound	FA19240-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	102	82	125	102	82	0	50-147/21
71-43-2	Benzene	1.0 U		25	27.0	108	25	25.1	100	7	81-122/14
108-86-1	Bromobenzene	1.0 U		25	26.8	107	25	25.2	101	6	80-121/14
74-97-5	Bromochloromethane	1.0 U		25	31.4	126*	25	30.1	120	4	76-123/14
75-27-4	Bromodichloromethane	1.0 U		25	25.4	102	25	24.2	97	5	79-123/19
75-25-2	Bromoform	1.0 U		25	20.8	83	25	20.8	83	0	66-123/21
104-51-8	n-Butylbenzene	1.0 U		25	23.5	94	25	22.3	89	5	79-126/16
135-98-8	sec-Butylbenzene	1.0 U		25	29.1	116	25	26.9	108	8	83-133/16
98-06-6	tert-Butylbenzene	1.0 U		25	25.3	101	25	25.1	100	1	80-133/16
108-90-7	Chlorobenzene	1.0 U		25	27.3	109	25	26.6	106	3	82-124/14
75-00-3	Chloroethane	2.0 U		25	28.1	112	25	27.2	109	3	62-144/20
67-66-3	Chloroform	1.0 U		25	30.2	121	25	27.3	109	10	80-124/15
95-49-8	o-Chlorotoluene	1.0 U		25	24.9	100	25	24.6	98	1	81-127/15
106-43-4	p-Chlorotoluene	1.0 U		25	27.1	108	25	26.4	106	3	83-130/15
75-15-0	Carbon disulfide	2.0 U		25	37.8	151*	25	28.9	116	27*	66-148/23
56-23-5	Carbon tetrachloride	1.0 U		25	32.0	128	25	27.0	108	17	76-136/23
75-34-3	1,1-Dichloroethane	1.0 U		25	28.4	114	25	27.0	108	5	81-122/15
75-35-4	1,1-Dichloroethylene	1.0 U		25	33.7	135	25	30.5	122	10	78-137/18
563-58-6	1,1-Dichloropropene	1.0 U		25	29.3	117	25	27.0	108	8	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	20.4	82	25	19.2	77	6	64-123/18
106-93-4	1,2-Dibromoethane	1.0 U		25	23.0	92	25	23.0	92	0	75-120/13
107-06-2	1,2-Dichloroethane	1.0 U		25	28.7	115	25	26.5	106	8	75-125/14
78-87-5	1,2-Dichloropropane	1.0 U		25	26.1	104	25	23.5	94	10	76-124/14
142-28-9	1,3-Dichloropropane	1.0 U		25	22.1	88	25	22.7	91	3	80-118/13
594-20-7	2,2-Dichloropropane	1.0 U		25	31.5	126	25	28.3	113	11	74-139/17
124-48-1	Dibromochloromethane	1.0 U		25	24.7	99	25	23.2	93	6	78-122/19
75-71-8	Dichlorodifluoromethane	2.0 U		25	37.5	150	25	33.1	132	12	42-167/19
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	26.3	105	25	24.5	98	7	78-120/15
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	20.6	82	25	18.5	74*	11	75-118/23
541-73-1	m-Dichlorobenzene	1.0 U		25	27.9	112	25	27.6	110	1	84-125/14
95-50-1	o-Dichlorobenzene	1.0 U		25	27.4	110	25	27.0	108	1	82-124/14
106-46-7	p-Dichlorobenzene	1.0 U		25	26.4	106	25	25.5	102	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	29.5	118	25	27.5	110	7	76-127/17
540-59-0	1,2-Dichloroethene (total)	2.0 U		50	55.8	112	50	52.0	104	7	77-122/15
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	20.6	82	25	21.2	85	3	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	25.5	102	25	24.6	98	4	81-121/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19240-1MS	M78375.D	1	10/27/14	RB	n/a	n/a	VM3313
FA19240-1MSD	M78376.D	1	10/27/14	RB	n/a	n/a	VM3313
FA19240-1	M78359.D	1	10/27/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Compound	FA19240-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	10	U	125	98.8	79	125	100	80	1	61-129/18
87-68-3	Hexachlorobutadiene	2.0	U	25	21.6	86	25	21.2	85	2	75-142/19
98-82-8	Isopropylbenzene	1.0	U	25	26.7	107	25	25.1	100	6	83-132/15
99-87-6	p-Isopropyltoluene	1.0	U	25	27.1	108	25	25.5	102	6	79-130/16
108-10-1	4-Methyl-2-pentanone	5.0	U	125	114	91	125	114	91	0	66-122/16
74-83-9	Methyl bromide	2.0	U	25	29.6	118	25	26.9	108	10	59-143/19
74-87-3	Methyl chloride	2.0	U	25	28.8	115	25	27.1	108	6	50-159/19
74-95-3	Methylene bromide	2.0	U	25	25.1	100	25	22.5	90	11	78-119/14
75-09-2	Methylene chloride	5.0	U	25	27.6	110	25	25.2	101	9	69-135/16
78-93-3	Methyl ethyl ketone	5.0	U	125	105	84	125	103	82	2	56-143/18
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	23.3	93	25	23.7	95	2	72-117/14
91-20-3	Naphthalene	5.0	U	25	19.2	77	25	20.0	80	4	63-132/25
103-65-1	n-Propylbenzene	1.0	U	25	26.2	105	25	24.7	99	6	82-133/15
100-42-5	Styrene	1.0	U	25	19.8	79	25	21.6	86	9	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	25.6	102	25	24.2	97	6	77-122/19
71-55-6	1,1,1-Trichloroethane	1.0	U	25	30.3	121	25	26.8	107	12	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	22.0	88	25	22.6	90	3	72-120/14
79-00-5	1,1,2-Trichloroethane	1.0	U	25	26.1	104	25	25.9	104	1	76-119/14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	21.6	86	25	21.8	87	1	68-131/25
96-18-4	1,2,3-Trichloropropane	2.0	U	25	21.5	86	25	23.7	95	10	77-120/16
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	20.6	82	25	21.5	86	4	73-129/20
95-63-6	1,2,4-Trimethylbenzene	2.0	U	25	23.5	94	25	23.2	93	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	2.0	U	25	23.3	93	25	22.5	90	3	79-120/19
127-18-4	Tetrachloroethylene	1.0	U	25	24.1	96	25	23.6	94	2	76-135/16
108-88-3	Toluene	1.0	U	25	26.8	107	25	25.4	102	5	80-120/14
79-01-6	Trichloroethylene	1.0	U	25	28.7	115	25	26.5	106	8	81-126/15
75-69-4	Trichlorofluoromethane	2.0	U	25	30.7	123	25	28.3	113	8	71-156/21
75-01-4	Vinyl chloride	1.0	U	25	29.8	119	25	28.4	114	5	69-159/18
1330-20-7	Xylene (total)	3.0	U	75	76.9	103	75	73.9	99	4	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA19240-1	Limits
1868-53-7	Dibromofluoromethane	109%	105%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	99%	79-125%
2037-26-5	Toluene-D8	94%	98%	102%	85-112%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19240-1MS	M78375.D	1	10/27/14	RB	n/a	n/a	VM3313
FA19240-1MSD	M78376.D	1	10/27/14	RB	n/a	n/a	VM3313
FA19240-1	M78359.D	1	10/27/14	RB	n/a	n/a	VM3313

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-1, FA19285-2, FA19285-3, FA19285-4

CAS No.	Surrogate Recoveries	MS	MSD	FA19240-1	Limits
460-00-4	4-Bromofluorobenzene	90%	94%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19174-24MS	M78403.D	50	10/27/14	RB	n/a	n/a	VM3315
FA19174-24MSD	M78404.D	50	10/27/14	RB	n/a	n/a	VM3315
FA19174-24	M78397.D	50	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Compound	FA19174-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6250	5310	85	6250	5850	94	10	50-147/21
71-43-2	Benzene	ND		1250	1190	95	1250	1300	104	9	81-122/14
108-86-1	Bromobenzene	ND		1250	1260	101	1250	1330	106	5	80-121/14
74-97-5	Bromochloromethane	ND		1250	1380	110	1250	1510	121	9	76-123/14
75-27-4	Bromodichloromethane	ND		1250	1210	97	1250	1270	102	5	79-123/19
75-25-2	Bromoform	ND		1250	1040	83	1250	1160	93	11	66-123/21
104-51-8	n-Butylbenzene	ND		1250	1080	86	1250	1100	88	2	79-126/16
135-98-8	sec-Butylbenzene	ND		1250	1300	104	1250	1380	110	6	83-133/16
98-06-6	tert-Butylbenzene	ND		1250	1170	94	1250	1270	102	8	80-133/16
108-90-7	Chlorobenzene	ND		1250	1290	103	1250	1400	112	8	82-124/14
75-00-3	Chloroethane	ND		1250	1270	102	1250	1480	118	15	62-144/20
67-66-3	Chloroform	55.5		1250	1410	108	1250	1450	112	3	80-124/15
95-49-8	o-Chlorotoluene	ND		1250	1150	92	1250	1200	96	4	81-127/15
106-43-4	p-Chlorotoluene	ND		1250	1210	97	1250	1260	101	4	83-130/15
75-15-0	Carbon disulfide	ND		1250	1700	136	1250	1730	138	2	66-148/23
56-23-5	Carbon tetrachloride	ND		1250	1370	110	1250	1500	120	9	76-136/23
75-34-3	1,1-Dichloroethane	ND		1250	1320	106	1250	1360	109	3	81-122/15
75-35-4	1,1-Dichloroethylene	ND		1250	1550	124	1250	1710	137	10	78-137/18
563-58-6	1,1-Dichloropropene	ND		1250	1290	103	1250	1440	115	11	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	980	78	1250	1020	82	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		1250	1070	86	1250	1150	92	7	75-120/13
107-06-2	1,2-Dichloroethane	ND		1250	1320	106	1250	1370	110	4	75-125/14
78-87-5	1,2-Dichloropropane	ND		1250	1140	91	1250	1220	98	7	76-124/14
142-28-9	1,3-Dichloropropane	ND		1250	1070	86	1250	1110	89	4	80-118/13
594-20-7	2,2-Dichloropropane	ND		1250	1380	110	1250	1500	120	8	74-139/17
124-48-1	Dibromochloromethane	ND		1250	1110	89	1250	1230	98	10	78-122/19
75-71-8	Dichlorodifluoromethane	ND		1250	1670	134	1250	1860	149	11	42-167/19
156-59-2	cis-1,2-Dichloroethylene	128		1250	1360	99	1250	1360	99	0	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1020	82	1250	1100	88	8	75-118/23
541-73-1	m-Dichlorobenzene	ND		1250	1290	103	1250	1380	110	7	84-125/14
95-50-1	o-Dichlorobenzene	ND		1250	1320	106	1250	1350	108	2	82-124/14
106-46-7	p-Dichlorobenzene	ND		1250	1240	99	1250	1310	105	5	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1350	108	1250	1420	114	5	76-127/17
540-59-0	1,2-Dichloroethene (total)	128		2500	2720	104	2500	2780	106	2	77-122/15
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1090	87	1250	1180	94	8	80-120/22
100-41-4	Ethylbenzene	ND		1250	1180	94	1250	1290	103	9	81-121/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19174-24MS	M78403.D	50	10/27/14	RB	n/a	n/a	VM3315
FA19174-24MSD	M78404.D	50	10/27/14	RB	n/a	n/a	VM3315
FA19174-24	M78397.D	50	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Compound	FA19174-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		6250	4720	76	6250	4960	79	5	61-129/18
87-68-3	Hexachlorobutadiene	ND		1250	1050	84	1250	1100	88	5	75-142/19
98-82-8	Isopropylbenzene	ND		1250	1270	102	1250	1360	109	7	83-132/15
99-87-6	p-Isopropyltoluene	ND		1250	1250	100	1250	1320	106	5	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		6250	5300	85	6250	5770	92	8	66-122/16
74-83-9	Methyl bromide	ND		1250	1260	101	1250	1550	124	21*	59-143/19
74-87-3	Methyl chloride	ND		1250	1280	102	1250	1420	114	10	50-159/19
74-95-3	Methylene bromide	ND		1250	1180	94	1250	1220	98	3	78-119/14
75-09-2	Methylene chloride	ND		1250	1210	97	1250	1290	103	6	69-135/16
78-93-3	Methyl ethyl ketone	ND		6250	4840	77	6250	5270	84	9	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1140	91	1250	1190	95	4	72-117/14
91-20-3	Naphthalene	ND		1250	942	75	1250	1040	83	10	63-132/25
103-65-1	n-Propylbenzene	ND		1250	1170	94	1250	1250	100	7	82-133/15
100-42-5	Styrene	ND		1250	1080	86	1250	1160	93	7	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		1250	1260	101	1250	1310	105	4	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		1250	1390	111	1250	1480	118	6	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1080	86	1250	1100	88	2	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		1250	1200	96	1250	1260	101	5	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1050	84	1250	1110	89	6	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		1250	1110	89	1250	1240	99	11	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		1250	974	78	1250	1090	87	11	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND		1250	1130	90	1250	1180	94	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		1250	1090	87	1250	1120	90	3	79-120/19
127-18-4	Tetrachloroethylene	6070	E	1250	7380	105	1250	7500	114	2	76-135/16
108-88-3	Toluene	ND		1250	1240	99	1250	1340	107	8	80-120/14
79-01-6	Trichloroethylene	95.4		1250	1390	104	1250	1410	105	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	1450	116	1250	1600	128	10	71-156/21
75-01-4	Vinyl chloride	ND		1250	1380	110	1250	1530	122	10	69-159/18
1330-20-7	Xylene (total)	ND		3750	3610	96	3750	3840	102	6	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA19174-24	Limits
1868-53-7	Dibromofluoromethane	109%	107%	109%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	102%	79-125%
2037-26-5	Toluene-D8	96%	95%	99%	85-112%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19174-24MS	M78403.D	50	10/27/14	RB	n/a	n/a	VM3315
FA19174-24MSD	M78404.D	50	10/27/14	RB	n/a	n/a	VM3315
FA19174-24	M78397.D	50	10/27/14	RB	n/a	n/a	VM3315

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-8, FA19285-9, FA19285-10, FA19285-11, FA19285-12

CAS No.	Surrogate Recoveries	MS	MSD	FA19174-24	Limits
460-00-4	4-Bromofluorobenzene	92%	90%	94%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19174-13MS	M78442.D	5	10/29/14	RB	n/a	n/a	VM3316
FA19174-13MSD	M78443.D	5	10/29/14	RB	n/a	n/a	VM3316
FA19174-13	M78431.D	5	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Compound	FA19174-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		625	432	69	625	423	68	2	50-147/21
71-43-2	Benzene	ND		125	120	96	125	110	88	9	81-122/14
108-86-1	Bromobenzene	ND		125	113	90	125	104	83	8	80-121/14
74-97-5	Bromochloromethane	ND		125	124	99	125	114	91	8	76-123/14
75-27-4	Bromodichloromethane	ND		125	115	92	125	106	85	8	79-123/19
75-25-2	Bromoform	ND		125	93.4	75	125	81.3	65*	14	66-123/21
104-51-8	n-Butylbenzene	ND		125	125	100	125	112	90	11	79-126/16
135-98-8	sec-Butylbenzene	ND		125	136	109	125	121	97	12	83-133/16
98-06-6	tert-Butylbenzene	ND		125	134	107	125	119	95	12	80-133/16
108-90-7	Chlorobenzene	ND		125	141	113	125	128	102	10	82-124/14
75-00-3	Chloroethane	ND		125	141	113	125	140	112	1	62-144/20
67-66-3	Chloroform	ND		125	118	94	125	107	86	10	80-124/15
95-49-8	o-Chlorotoluene	ND		125	130	104	125	119	95	9	81-127/15
106-43-4	p-Chlorotoluene	ND		125	128	102	125	114	91	12	83-130/15
75-15-0	Carbon disulfide	ND		125	175	140	125	133	106	27*	66-148/23
56-23-5	Carbon tetrachloride	ND		125	132	106	125	119	95	10	76-136/23
75-34-3	1,1-Dichloroethane	ND		125	116	93	125	108	86	7	81-122/15
75-35-4	1,1-Dichloroethylene	ND		125	152	122	125	136	109	11	78-137/18
563-58-6	1,1-Dichloropropene	ND		125	138	110	125	125	100	10	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		125	116	93	125	93.0	74	22*	64-123/18
106-93-4	1,2-Dibromoethane	ND		125	123	98	125	113	90	8	75-120/13
107-06-2	1,2-Dichloroethane	ND		125	120	96	125	107	86	11	75-125/14
78-87-5	1,2-Dichloropropane	4.5	J	125	122	94	125	112	86	9	76-124/14
142-28-9	1,3-Dichloropropane	ND		125	116	93	125	101	81	14*	80-118/13
594-20-7	2,2-Dichloropropane	ND		125	121	97	125	112	90	8	74-139/17
124-48-1	Dibromochloromethane	ND		125	115	92	125	104	83	10	78-122/19
75-71-8	Dichlorodifluoromethane	ND		125	168	134	125	172	138	2	42-167/19
156-59-2	cis-1,2-Dichloroethylene	23.9		125	154	104	125	145	97	6	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		125	104	83	125	96.9	78	7	75-118/23
541-73-1	m-Dichlorobenzene	ND		125	134	107	125	122	98	9	84-125/14
95-50-1	o-Dichlorobenzene	ND		125	129	103	125	118	94	9	82-124/14
106-46-7	p-Dichlorobenzene	ND		125	126	101	125	116	93	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	127	102	125	118	94	7	76-127/17
540-59-0	1,2-Dichloroethene (total)	23.9		250	281	103	250	264	96	6	77-122/15
10061-02-6	trans-1,3-Dichloropropene	ND		125	123	98	125	104	83	17	80-120/22
100-41-4	Ethylbenzene	ND		125	119	95	125	109	87	9	81-121/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19174-13MS	M78442.D	5	10/29/14	RB	n/a	n/a	VM3316
FA19174-13MSD	M78443.D	5	10/29/14	RB	n/a	n/a	VM3316
FA19174-13	M78431.D	5	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Compound	FA19174-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		625	562	90	625	506	81	10	61-129/18
87-68-3	Hexachlorobutadiene	ND		125	114	91	125	102	82	11	75-142/19
98-82-8	Isopropylbenzene	ND		125	142	114	125	131	105	8	83-132/15
99-87-6	p-Isopropyltoluene	ND		125	137	110	125	122	98	12	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		625	631	101	625	564	90	11	66-122/16
74-83-9	Methyl bromide	ND		125	141	113	125	148	118	5	59-143/19
74-87-3	Methyl chloride	ND		125	144	115	125	145	116	1	50-159/19
74-95-3	Methylene bromide	ND		125	110	88	125	103	82	7	78-119/14
75-09-2	Methylene chloride	ND		125	135	108	125	121	97	11	69-135/16
78-93-3	Methyl ethyl ketone	ND		625	522	84	625	477	76	9	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		125	123	98	125	112	90	9	72-117/14
91-20-3	Naphthalene	ND		125	103	82	125	90.5	72	13	63-132/25
103-65-1	n-Propylbenzene	ND		125	135	108	125	121	97	11	82-133/15
100-42-5	Styrene	ND		125	122	98	125	111	89	9	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		125	119	95	125	110	88	8	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		125	123	98	125	117	94	5	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	126	101	125	111	89	13	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		125	131	105	125	122	98	7	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		125	108	86	125	95.8	77	12	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		125	124	99	125	108	86	14	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		125	106	85	125	91.3	73	15	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND		125	121	97	125	107	86	12	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		125	121	97	125	112	90	8	79-120/19
127-18-4	Tetrachloroethylene	130		125	262	106	125	249	95	5	76-135/16
108-88-3	Toluene	ND		125	135	108	125	125	100	8	80-120/14
79-01-6	Trichloroethylene	10.4		125	128	94	125	122	89	5	81-126/15
75-69-4	Trichlorofluoromethane	ND		125	134	107	125	136	109	1	71-156/21
75-01-4	Vinyl chloride	3.2	J	125	139	109	125	143	112	3	69-159/18
1330-20-7	Xylene (total)	ND		375	398	106	375	365	97	9	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA19174-13	Limits
1868-53-7	Dibromofluoromethane	97%	99%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	99%	79-125%
2037-26-5	Toluene-D8	96%	94%	97%	85-112%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19174-13MS	M78442.D	5	10/29/14	RB	n/a	n/a	VM3316
FA19174-13MSD	M78443.D	5	10/29/14	RB	n/a	n/a	VM3316
FA19174-13	M78431.D	5	10/28/14	RB	n/a	n/a	VM3316

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-5, FA19285-6, FA19285-7

CAS No.	Surrogate Recoveries	MS	MSD	FA19174-13	Limits
460-00-4	4-Bromofluorobenzene	95%	90%	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19534-13MS	M78626.D	10	11/02/14	RB	n/a	n/a	VM3326
FA19534-13MSD	M78627.D	10	11/02/14	RB	n/a	n/a	VM3326
FA19534-13 [a]	M78624.D	10	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Compound	FA19534-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	721	58	1250	698	56	3	50-147/21
71-43-2	Benzene	ND		250	244	98	250	211	84	15*	81-122/14
108-86-1	Bromobenzene	ND		250	237	95	250	209	84	13	80-121/14
74-97-5	Bromochloromethane	ND		250	278	111	250	244	98	13	76-123/14
75-27-4	Bromodichloromethane	ND		250	240	96	250	215	86	11	79-123/19
75-25-2	Bromoform	ND		250	254	102	250	220	88	14	66-123/21
104-51-8	n-Butylbenzene	ND		250	218	87	250	193	77*	12	79-126/16
135-98-8	sec-Butylbenzene	ND		250	243	97	250	219	88	10	83-133/16
98-06-6	tert-Butylbenzene	ND		250	236	94	250	210	84	12	80-133/16
108-90-7	Chlorobenzene	ND		250	281	112	250	245	98	14	82-124/14
75-00-3	Chloroethane	ND		250	288	115	250	293	117	2	62-144/20
67-66-3	Chloroform	ND		250	243	97	250	213	85	13	80-124/15
95-49-8	o-Chlorotoluene	ND		250	228	91	250	203	81	12	81-127/15
106-43-4	p-Chlorotoluene	ND		250	230	92	250	203	81*	12	83-130/15
75-15-0	Carbon disulfide	ND		250	368	147	250	308	123	18	66-148/23
56-23-5	Carbon tetrachloride	ND		250	282	113	250	249	100	12	76-136/23
75-34-3	1,1-Dichloroethane	ND		250	245	98	250	213	85	14	81-122/15
75-35-4	1,1-Dichloroethylene	26.5		250	353	131	250	311	114	13	78-137/18
563-58-6	1,1-Dichloropropene	ND		250	280	112	250	241	96	15	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	157	63*	250	151	60*	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		250	227	91	250	206	82	10	75-120/13
107-06-2	1,2-Dichloroethane	ND		250	246	98	250	214	86	14	75-125/14
78-87-5	1,2-Dichloropropane	ND		250	239	96	250	213	85	12	76-124/14
142-28-9	1,3-Dichloropropane	ND		250	212	85	250	191	76*	10	80-118/13
594-20-7	2,2-Dichloropropane	ND		250	270	108	250	244	98	10	74-139/17
124-48-1	Dibromochloromethane	ND		250	244	98	250	221	88	10	78-122/19
75-71-8	Dichlorodifluoromethane	ND		250	257	103	250	268	107	4	42-167/19
156-59-2	cis-1,2-Dichloroethylene	664		250	914	100	250	865	80	6	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		250	230	92	250	204	82	12	75-118/23
541-73-1	m-Dichlorobenzene	ND		250	256	102	250	230	92	11	84-125/14
95-50-1	o-Dichlorobenzene	ND		250	245	98	250	212	85	14	82-124/14
106-46-7	p-Dichlorobenzene	ND		250	240	96	250	208	83	14	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	260	104	250	226	90	14	76-127/17
540-59-0	1,2-Dichloroethene (total)	664		500	1170	101	500	1090	85	7	77-122/15
10061-02-6	trans-1,3-Dichloropropene	ND		250	239	96	250	214	86	11	80-120/22
100-41-4	Ethylbenzene	ND		250	232	93	250	204	82	13	81-121/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19534-13MS	M78626.D	10	11/02/14	RB	n/a	n/a	VM3326
FA19534-13MSD	M78627.D	10	11/02/14	RB	n/a	n/a	VM3326
FA19534-13 [a]	M78624.D	10	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Compound	FA19534-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		1250	1010	81	1250	875	70	14	61-129/18
87-68-3	Hexachlorobutadiene	ND		250	241	96	250	240	96	0	75-142/19
98-82-8	Isopropylbenzene	ND		250	273	109	250	245	98	11	83-132/15
99-87-6	p-Isopropyltoluene	ND		250	252	101	250	225	90	11	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		1250	1170	94	1250	1000	80	16	66-122/16
74-83-9	Methyl bromide	ND		250	315	126	250	307	123	3	59-143/19
74-87-3	Methyl chloride	ND		250	285	114	250	277	111	3	50-159/19
74-95-3	Methylene bromide	ND		250	234	94	250	196	78	18*	78-119/14
75-09-2	Methylene chloride	ND		250	290	116	250	252	101	14	69-135/16
78-93-3	Methyl ethyl ketone	ND		1250	1000	80	1250	883	71	12	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		250	220	88	250	206	82	7	72-117/14
91-20-3	Naphthalene	ND		250	148	59*	250	152	61*	3	63-132/25
103-65-1	n-Propylbenzene	ND		250	244	98	250	210	84	15	82-133/15
100-42-5	Styrene	ND		250	243	97	250	203	81	18	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	243	97	250	227	91	7	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		250	261	104	250	238	95	9	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	225	90	250	194	78	15*	72-120/14
79-00-5	1,1,2-Trichloroethane	ND		250	258	103	250	226	90	13	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		250	184	74	250	192	77	4	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		250	219	88	250	197	79	11	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		250	182	73	250	183	73	1	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND		250	216	86	250	190	76*	13	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		250	216	86	250	192	77*	12	79-120/19
127-18-4	Tetrachloroethylene	136		250	413	111	250	392	102	5	76-135/16
108-88-3	Toluene	2.2	J	250	257	102	250	228	90	12	80-120/14
79-01-6	Trichloroethylene	32.5		250	283	100	250	253	88	11	81-126/15
75-69-4	Trichlorofluoromethane	ND		250	278	111	250	288	115	4	71-156/21
75-01-4	Vinyl chloride	ND		250	262	105	250	278	111	6	69-159/18
1330-20-7	Xylene (total)	ND		750	767	102	750	673	90	13	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA19534-13	Limits
1868-53-7	Dibromofluoromethane	103%	101%	110%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	101%	79-125%
2037-26-5	Toluene-D8	89%	89%	95%	85-112%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19285
Account: GSIKSW Geotechnical Services Inc
Project: Brenntag; 1520 N Barwise, Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA19534-13MS	M78626.D	10	11/02/14	RB	n/a	n/a	VM3326
FA19534-13MSD	M78627.D	10	11/02/14	RB	n/a	n/a	VM3326
FA19534-13 [a]	M78624.D	10	11/01/14	RB	n/a	n/a	VM3326

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA19285-13, FA19285-14, FA19285-15

CAS No.	Surrogate Recoveries	MS	MSD	FA19534-13	Limits
460-00-4	4-Bromofluorobenzene	83%	80%*	93%	83-118%

(a) Sample was not preserved to a pH < 2.

* = Outside of Control Limits.

Foth Infrastructure & Environment, LLC

PROJECT IDENTIFICATION

Project Name: Brenntag – Wichita, KS

Laboratory: Accutest Laboratories Southeast – Orlando, FL

Laboratory Project ID (SDG): FA19285

Sample Collection Dates: 10/21/2014

Sample Analysis Dates: 10/27/2014 – 11/05/2014

Sample Matrix: Ground water

Analytical Fractions: ☒ VOC ☐ SVOC ☐ PEST/PCB ☐ TPH ☐ METALS ☐ ANIONS ☐ CATIONS ☐ WET CHEM

Sample IDs Reviewed: See attached list

Verification and Validation Stage: ☐ 1 ☒ 2A ☐ 2B ☐ 3 ☐ 4

Verified and Validated By: T. Scott Barton, Lead Env Scientist — Name, Title

T. Scott Barton 12/16/2014 — Signature, Date

SUMMARY

Item #	Review Item	Reported		Acceptable		Review Tasks
		Yes	No	Yes	No	
1.	Chain of Custody and Sample Receipt Form	X		X		Confirm relinquish & receipt signatures. Confirm parameters and analytical methods in SRF match COC which match SAP.
2.	Case Narrative		X	X		Review for items noted by the laboratory.
3.	Sample Condition Upon Receipt	X		X		Confirm samples in acceptable condition and no discrepancies noted. Preservation (temperature <6 degrees C, pH, etc)
4.	Methods Requested	X		X		Confirm the following: 1. Analyses ordered match workplan. 2. Lab provided all methods ordered.
5.	Analytes Requested	X		X		Confirm the following: 1. Analytes ordered match workplan. 2. Lab provided all analytes ordered.
6.	Holding Times	X		X		Confirm laboratory performed extractions and analyses within method-required holding times.
7.	Blanks	X		X		Confirm the following: 1. No detections in laboratory (method) blanks. 2. No detections in trip blanks (*VOCs only*). 3. No detections in equipment blanks. 4. Equipment/Trip blanks collected at workplan-required frequency.
8.	Surrogates	X		X		Confirm the following (*organic analyses only*): 1. Surrogates analyzed. 2. Surrogate recovery within QC limits.

Item #	Review Item	Reported		Acceptable		Review Tasks
		Yes	No	Yes	No	
9.	MS/MSDs	X		X		Confirm the following: 1. MS/MSDs at frequency specified in workplan. 2. MS percent recovery within lab specified limits. 3. Organic MSD relative percent difference (RPD) within limits. 4. Inorganic lab replicate RPD within limits.
10.	Field Duplicates	X		X		Confirm the following: 1. Field duplicates collected at required frequency. 2. Field duplicate RPD within acceptable limits.
11.	LCS/LCSDs	NA		NA		Confirm the following (*low-level water analyses only*): 1. LCS analyzed. 2. LCS/LCSD recovery within lab specified limits.
12.	Initial Calibrations	NA		NA		Confirm the following for project compounds and system monitoring compounds: 1. RRFs greater than or equal to 0.05. 2. %RSD from initial calibration less than 30%. If R^2 values are reported instead, R^2 must be > 0.990.
13.	Continuing Calibrations	NA		NA		Confirm the following for project compounds and system monitoring compounds: 1. RRF greater than 0.05. 2. %D less than 25%.
14.	Instrument Tuning	NA		NA		Confirm % relative abundance are within ion abundance criteria.
15.	Internal Standards	NA		NA		Confirm that retention times (RT) of samples are consistent with RT of the standards, within the upper and lower limits.

COMMENTS AND REQUIRED ACTIONS Comments are provided for any items that need additional explanation (referenced by item number above).

3. Samples were received at the lab at a temperature of 2.8 °C.
7. Toluene (0.00035 mg/L) was detected in the trip blank sample. No toluene was reported in any associated ground water samples; therefore no qualifiers are assigned.

9. The MS/MSD % Recovery and/or MS/MSD RPD was outside control limits for the following analytes:

Sample Number	Analyte	MS % Recovery	MSD % Recovery	RPD
FA19240-1MS FA19240-1MSD	Bromochloromethane Carbon disulfide cis-1,3-Dichloropropene	126% > 123% 151% > 148%	 74% < 75%	 27% > 23%
FA19174-24MS FA19174-24MSD	Methyl bromide			21% > 19%
FA19174-13MS FA19174-13MSD	Bromoform Carbon disulfide 1,2-Dibromo-3-chloropropane 1,3-Dichloropropane		65% < 66%	 27% > 23% 22% > 18% 14% > 13%
FA19534-13MS FA19534-13MSD	Benzene n-Butylbenzene p-Chlorotoluene 1,2-Dibromo-3-chloropropane 1,3-Dichloropropane Methylene bromide Naphthalene 1,1,2,2-Tetrachloroethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	 63% < 64% 59% < 63% 	 77% < 79% 81% < 83% 60% < 64% 76% < 80% 61% < 63% 76% < 79% 77% < 79%	15% > 14% 18% > 14% 15% > 14%

No qualifiers are assigned for these control limit exceedances because the parent samples were not part of the sample delivery group submitted from the Brenntag site.

10. Parent and duplicate samples were collected from MW-3S and MW-3D. The precision for both sets of parent/duplicate samples was acceptable.

OVERALL ASSESSMENT OF DATA

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	X		
2. Precision	X		
3. Accuracy	X		
4. Representativeness	X		
5. Comparability	X		
6. Completeness	X		
7. Suitability for Intended Use	X		

Sample Summary

Geotechnical Services Inc

Job No: FA19285

Brenntag; 1520 N Barwise, Wichita, KS
Project No: 087013

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA19285-1	10/21/14	10:00 DK	10/22/14	AQ	Ground Water	MW-1S
FA19285-2	10/21/14	10:05 DK	10/22/14	AQ	Ground Water	MW-1D
FA19285-3	10/21/14	10:30 DK	10/22/14	AQ	Ground Water	MW-2S
FA19285-4	10/21/14	10:35 DK	10/22/14	AQ	Ground Water	MW-2D
FA19285-5	10/21/14	11:10 DK	10/22/14	AQ	Ground Water	MW-3S
FA19285-6	10/21/14	11:15 DK	10/22/14	AQ	Ground Water	MW-3D
FA19285-7	10/21/14	11:35 DK	10/22/14	AQ	Ground Water	MW-4S
FA19285-8	10/21/14	11:40 DK	10/22/14	AQ	Ground Water	MW-4D
FA19285-9	10/21/14	12:15 DK	10/22/14	AQ	Ground Water	MW-5S
FA19285-10	10/21/14	12:20 DK	10/22/14	AQ	Ground Water	MW-5D
FA19285-11	10/21/14	12:40 DK	10/22/14	AQ	Ground Water	MW-6S
FA19285-12	10/21/14	12:45 DK	10/22/14	AQ	Ground Water	MW-6D
FA19285-13	10/21/14	00:00 DK	10/22/14	AQ	Ground Water	BLIND DUP-S

Sample Summary
(continued)

Geotechnical Services Inc

Job No: FA19285

Brenntag; 1520 N Barwise, Wichita, KS
Project No: 087013

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA19285-14	10/21/14	00:00 DK	10/22/14	AQ	Ground Water	BLIND DUP-D
FA19285-15	10/21/14	00:00 DK	10/22/14	AQ	Trip Blank Water	TRIP BLANK

RPD Analysis
Analytical Report FA19285
Brenntag - Wichita, KS

Relative Percent Difference ("RPD") Analysis for Field Duplicate Samples

RPD =

$$\frac{\text{absolute value } (a - b)}{(a + b)/2} \times 100\%$$

Acceptance Criteria*: 35%
(typically 35% for water samples, 50% for soil)

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates relative percent difference ("RPD") is as follows:

- For analytes with concentrations greater than 5x the reporting limit, the RPD should be within 35% for water matrices and 50% for soil matrices.
- For analytes with either or both concentrations less than 5x the reporting limit (indicated below by "low-level"), duplicate concentrations should agree within 5x the reporting limit.

Duplicate Result Analysis

Analyte	Parent Sample Result	Duplicate Sample Result	RPD	Acceptable?
	MW-03S	BLIND DUP-S		
cis-1,2-Dichloroethylene	0.00044	< 0.001	low-level	Yes
1,1,1-Trichloroethane	0.00059	0.00069	low-level	Yes
Tetrachloroethylene	0.0193	0.0211	8.9%	Yes
Trichloroethylene	0.002	0.0015	low-level	Yes
	MW-03D	BLIND DUP-D		
1,1-Dichloroethane	< 0.001	0.00045	low-level	Yes
1,1-Dichloroethylene	0.00095	0.001	low-level	Yes
cis-1,2-Dichloroethylene	0.0429	0.0397	7.7%	Yes
trans-1,2-Dichloroethylene	0.00087	0.00087	low-level	Yes
1,2-Dichloroethene (total)	0.0438	0.0406	7.6%	Yes
Trichloroethylene	0.0015	0.0016	low-level	Yes

Appendix I

Reductive Dechlorination of PCE On and Near Property Memo, August 9, 2009

Memorandum

August 25, 2009

TO: Peter Ramaley, Brenntag Southwest, Inc.

CC: Bob Kick, Foth Infrastructure & Environment, LLC
Scott Barton, Foth Infrastructure & Environment, LLC

FR: Jon Manchester, Foth Infrastructure & Environment, LLC

RE: Reductive Dechlorination of Tetrachloroethene On and Near Brenntag Property

Purpose

This memorandum presents an analysis of historical and recent measurements of tetrachloroethene (PCE) in groundwater under or near the Brenntag facility, located in Wichita, Kansas.

Background

An environmental release of PCE into soil on the Brenntag facility was remediated by excavation of affected soil. Historical measurements of PCE in groundwater suggest this release may have contributed to PCE in groundwater under the facility. Historical and recent measurements of PCE in groundwater under and near the Brenntag facility indicate that PCE in groundwater is undergoing reductive dechlorination. Chemical products produced by dechlorination include trichloroethene (TCE), *cis*-1,2-dichloroethene (DCE), and monochloroethene (also known as vinyl chloride; VC). An analysis of the ratios of PCE and dechlorination products suggests that another source of PCE off-site of the Brenntag facility may be present, and may continue to release PCE and dechlorination products to groundwater down-gradient from the Brenntag facility.

Reductive Dechlorination

Reductive dechlorination refers to the chemical process of replacing a chlorine atom on an organic molecule with a hydrogen atom while simultaneously reducing (increasing electron density around) the affected carbon atom. Reductive dechlorination may be distinguished from other reactions that remove chlorines by observing that the oxidation state of the affected carbon atoms decreases as chlorines are removed. Thus, in the dechlorination series PCE, TCE,

DCE, and VC, the sum of the oxidation states of the two carbon atoms changes from +4 to +2 to 0 to -2, respectively.

The general half-reaction describing reductive dechlorination is:

$$(R-Cl)+2e^{-}+H^{+} \rightarrow (R-H)+Cl^{-} \qquad (1)$$

where R- represents an aliphatic or aromatic molecule with a single open bond. Reaction (1) shows that two electrons are consumed, one by a carbon atom acting as an electron acceptor and a second by the newly-formed chlorine ion. Dechlorination cannot occur without a source (an electron donor) for these two electrons. Extensive research has demonstrated that many naturally occurring substances can act as electron donors in abiotic reductive dechlorination reactions. These substances include sulfide minerals, reduced metals, and natural organic matter. In addition, biological agents that cannot use oxygen as a terminal electron acceptor, such as anaerobic bacteria, must seek alternate electron acceptors to complete their metabolism biochemistry, and biologically-mediated reductive dechlorination is thought to be a dominant mechanism for this process in many natural settings (Larson and Weber, 1994).

The wide range of potential electron donors in natural settings implies that reductive dechlorination should be quite common, and this process has been observed in soils, sediments, and groundwater. The large number of potential pathways also implies that predictions of rates of reductive dechlorination is challenging. Rate predictions are further complicated in the case of PCE and its degradation products, as the products of one dechlorination step become the reactants of subsequent steps. Thus, if TCE begins to accumulate as it forms from dechlorination of PCE, its increasing concentration will inhibit further PCE dechlorination. This will also be true for DCE and VC.

The extent of dechlorination of chlorinated ethenes will depend not only on the extent of removal (for example, by flow of groundwater away from the PCE source) of degradation products, but also on the absolute rate of each dechlorination step. As noted, these reaction rates will vary greatly under different field settings. However, scaling of relative rates is possible using laboratory experiments. Haston and McCarty (1999) cultivated a population of bacteria capable of dechlorinating PCE completely to ethene and used these bacteria in controlled experiments to determine the maximum degradation rates (kX) and half-velocity coefficients (K_S) for PCE, TCE, DCE, and VC; kX values were 77, 59, 14, and 13 micromolar per day (μM/day), with K_S values of 0.11, 1.4, 3.3, 2.6 μM, respectively. Maximum degradation rates reflect the maximum concentration of a chlorinated ethene that can be degraded per unit time; high values indicate a particular compound will be more rapidly degraded. Half-velocity coefficients are equal to the chlorinated ethene concentration at one-half the maximum specific utilization rate; high values for this parameter indicate that low-concentrations of a particular chlorinated ethene will not be readily degraded. Taken together, these values indicate that, given appropriate bacteria and supporting conditions, PCE and to a lesser extent, TCE, will be quickly degraded in the environment, while DCE, and VC may persist, and this effect will be most noticeable for DCE.

The propensity for the accumulation of DCE in groundwater near areas of active PCE dechlorination has been noted by researchers examining field data. Washington and Cameron

(2001) use long-term measurements at a Pennsylvania landfill of PCE, TCE, and DCE to construct a model of PCE degradation. These researchers report that half-lives of PCE and TCE under field conditions at the landfill are 6.2 and 5 days, respectively, but that DCE has a half-life greater than 800 days.

Although dependent on specific field conditions, the relatively rapid rate of PCE dechlorination and the much slower rate of DCE dechlorination suggest that the relative amounts of these chemicals at a specific location may be an indicator of an active source of PCE, given no source for TCE and DCE other than dechlorination of PCE. Thus, a large amount of PCE relative to DCE would indicate an active source of PCE, as PCE concentrations should fall rapidly relative to DCE levels if no current PCE source is present.

Site Conditions and Sampling Methodology

Well measurements taken on the Brenntag site, as well as regional well measurements, show that groundwater on and near the site flows toward the southeast. Based on well heads observed on-site, groundwater flow velocities are 300 to 400 feet per year, with deeper water flowing more rapidly than shallow water.

Historical measurements of chlorinated ethenes were obtained in 2004 from two depths (nominal 17 and 37 feet below ground) at eight sampling locations on the Brenntag site. Historical measurements represent conditions before excavation of soil containing PCE, and so reflect the presence of an active source of PCE.

Recent measurements of chlorinated ethenes in groundwater were off-site and generally down-gradient of the Brenntag property. These samples were obtained using direct-push technology (DPT) and were collected from three depths (nominal 15, 25, and 35 feet below ground) at 11 sampling locations. Samples were collected during March, 2009, approximately 18 months after removal of soil containing PCE from the Brenntag property. All groundwater samples (historical and recent) were analyzed for a suite of organic compounds including PCE, TCE, DCE, and VC.

Sampling locations are shown on Figures 1 and 2. Historical locations (Figures 1 and 2) are labeled GBS-[number] and GBD-[number] for shallow and deep samples at each numbered location. These labels are used in all figures presented here. Recent direct-push sampling locations (Figure 2) are labeled GW-[number] on Figure 2. Subsequent figures presented here use labels with form DPT-[number][A, B, or C], representing samples collected from shallow, intermediate, and deep groundwater (A, B, and C, respectively) at numbered locations shown on Figure 2.

Data Analysis

Laboratory measurements of PCE, TCE, DCE, and VC were screened for this analysis to include only those values greater than the Limit of Quantitation (LOQ) so that comparisons of relative amounts would be valid. A statistical comparison of historical (on-site) and recent (off-site) measurements is presented in Table 1. There are no known releases of PCE degradation products (TCE, DCE, and VC) on-site; it is assumed this is true off-site, as well. Given this, the presence of TCE, DCE, and VC reflects degradation of the PCE parent compound. The

prevalence of degradation is demonstrated by the observation that TCE and DCE are detected above LOQ roughly twice as often as PCE in both on-site and off-site measurements. TCE is the most often detected compound in the historical data set, suggesting the presence of an active PCE source that provides (through degradation) a steady supply of TCE, even as TCE degrades to form DCE. In contrast, DCE is most often detected in the recent data set, suggesting that PCE sources are not able to maintain TCE concentrations, and TCE concentrations decrease as degradation of TCE creates DCE and VC.

Other observations based on the statistical analysis include:

- The active PCE source is apparent in the historical data as average, median and maximum PCE concentrations exceed the same values for all three degradation products;

- Average and median PCE concentrations on-site are roughly 36% and 22% of the maximum value. This is a reasonable distribution given a site dominated by an active source;

- In contrast to the above, off-site PCE average and median values are many times smaller than the maximum PCE value. Depending on location of the maximum value, this may indicate a second, localized PCE source;

- The prevalence of PCE degradation off-site is indicated by the high median concentration of DCE, roughly four and fifteen times greater than median concentrations of TCE and PCE, respectively;

- However, PCE maximum concentration off-site exceeds DCE maximum, again suggesting a second source of PCE off of the Brenntag site.

The concentrations in the historical, on-site data set are compared to those in the recent, off-site data set in Figure 3 for each of the four chlorinated ethenes. Values are graphed by compound. Values on each graph show shallow, intermediate, and deep groundwater concentrations for a single compound. Values are arranged left to right along the x-axis roughly from up-gradient to down-gradient of southeasterly flowing groundwater. This arrangement groups the historical values on the left of each graph.

PCE values are dominated by the concentrations near the historical on-site source. The three high values at GB-7, GB-6, and GB-5 fall smoothly with increasing distance from the later-excavated PCE source. The only other elevated PCE concentration is observed far from the historical source at DPT-6. It is possible that this measurement reflects the presence of a very focused plume flowing from the historical source. This possibility appears less likely, however, given the high concentration at DPT-6. PCE concentrations near the historical source fall by more than fifty percent over the tens of feet between GB-7 and GB-5. It is unlikely that PCE concentration at DPT-6 would still be 65% of the historical concentration at GB-5 after a plume had traveled hundreds of feet to reach DPT-6. Also, given the rate of groundwater flow and more than one year of time between original source excavation and the measurement at DPT-6, it is expected that any original plume that may have existed would have greatly diminished in concentration at the time of the measurement.

While the existence of a plume from the original source cannot be ruled out based solely on the data discussed above, a more likely explanation for the high concentration of PCE at DPT-6 is that another PCE source is present just up-gradient from this location. This possible source would also contribute to the modestly elevated PCE concentration observed in shallow groundwater at nearby DPT-5.

Concentrations of degradation products TCE and DCE, shown on the second and third graph on Figure 3, are generally as would be expected if the PCE from the on-site source was undergoing degradation. The highest TCE concentration was measured in the past at GB-4. This location appears to be side-gradient to the original source. TCE concentrations are also elevated at GB-5, which is down-gradient of the historical source. Concentrations of DCE also peak at several depths at locations GB-7, GB-6, and GB-5. Taken together, the concentrations of PCE, TCE, and DCE near these three locations strongly indicates that PCE from the historical source was undergoing dechlorination.

Concentrations of TCE and DCE are elevated at locations on either side of DPT-6. One explanation for this pattern is that, unlike PCE, TCE, and DCE have migrated off-site from the historical source and are flowing toward DPT-3, DPT-4, and DPT-5. Concentrations of these compounds fall at DPT-6, but then rise again down-gradient from this location at DPT-7 and DPT-8. This could be explained by ongoing degradation of PCE from a source near DPT-6. It is also noted that the highest concentrations of the third degradation product, VC, occur at DPT-7 and DPT-8, again supporting the possibility of a second PCE source near DPT-6.

Mass concentrations, like those shown in Figure 3, are useful for comparing the concentrations of a single compound at multiple sites. However, comparison of relative amounts of different compounds at a single site, particularly parent and degradation product compounds, are best done using molar concentrations (mass concentrations divided by molecular weight). Because one mole of PCE can produce one mole of TCE if completely dechlorinated, and so on for TCE to DCE to VC, the sum of the molar concentrations for these compounds is equal to the molar concentration of the original parent PCE compound. Thus, the total molar concentration provides the best delineation of the flow from the original source or sources.

Molar concentrations of PCE, TCE, DCE, and VC, as well as the sum of these concentrations are shown on Figure 4 (concentrations have units of nanomoles per liter (nmole/L), appropriate given the original microgram per liter concentrations). The five graphs shown on Figure 4 each display date from one depth and either the historical or recent data sets. Locations are arranged as in Figure 3, but historical and recent measurements are on separate graphs. Also shown on each graph is the total molar concentration at each location. Note that the graphs have two y-axes with different scaling so that patterns in compounds present at low concentration are visible.

Graphs on Figure 4 make visible the relationships between parent PCE and degradation products TCE, DCE, and VC. For example, the historical concentrations at GBS-7 show the expected pattern of PCE degradation when a nearby source is maintaining PCE concentration even as PCE is degrading to TCE and then to DCE. Note that TCE at this site is present at less than one-tenth the concentration of PCE because it quickly degrades to DCE, which is present at roughly one-half of the PCE concentration. Thus, while PCE concentrations fall by more than 50% between

GBS-7 and GBS-5, the total chlorinated ethene concentration falls by only one-third between these locations.

The total chlorinated ethene concentration may also make visible vertical migration of compounds from the source. Note that total concentrations at shallow depths at locations GBS-7 and GBS-6 are elevated and consist mostly of PCE and DCE. However, concentrations of these compounds and total concentration are low at deeper depths, indicating the flow from the source is mostly horizontal at these locations. Total concentrations at nearby down-gradient locations GBS-5 and GBD-5 are very similar, although the mixture at depth is almost exclusively DCE and TCE. Thus, while the parent compound (PCE) does not appear to migrate vertically, the degradation products (DCE and TCE) broaden the flow in the vertical direction.

Total concentrations, though low in shallow groundwater, are elevated in deep groundwater at locations GBD-1, GBD-2, GBD-8, and GBD-3, and total concentrations consist of DCE and TCE. These locations are up-gradient from the historical source and near the north and west site boundaries. This pattern suggests that other PCE sources are present off-site to the north and west, and while PCE has not migrated to the site, degradation products may have flowed on-site from the north and west.

Patterns of PCE degradation are visible in the recent data. For example, in shallow groundwater at location DPT-5A, a small source of PCE is present with a greater amount of DCE mixed with lesser amounts of TCE and VC. However, at nearby DPT-6A, total concentrations fall and then rise again at DPT-7A and DPT-8A. This pattern is present at these locations in groundwater from intermediate depths, with the large exception that total concentration is greatest at location DPT-6B, and this total consists mostly of PCE. The exception would support the possibility of a nearby PCE source distinct from the original historical source. This source then contributes to the elevated concentrations of DCE and TCE found in intermediate and deep groundwater at locations DPT-7B, DPT-7C, DPT-8B, and DPT-8C.

A more explicit representation of the molar ratios of PCE and its degradation products is presented in Figure 5. Graphs on this figure contain the same data sets as those shown on the graphs in Figure 4. However, in Figure 5 molar concentrations are presented as percentages of the total chlorinated ethenes at each location. The stacked bars are all of equal height (representing 100% of total chlorinated ethene at each location) although the absolute amount of total chlorinated ethene varies greatly among locations. To provide perspective, the total chlorinated ethene concentration at a location is shown at the top of each bar.

Several patterns are visible in Figure 5. For example, as discussed before, the relationship among concentrations of PCE and its degradation products when an active source of PCE is present nearby is clearly shown by the stacked bars at locations GBS-7, GBS-6, and GBS-5. Note that GBS-7, closest to the historical PCE source, has the largest percentage of PCE parent compound, and the PCE percentage falls as distance from the source increases, while the percentage of degradation products, particularly DCE, increases. The large fraction of DCE is as predicted, based on research presented above regarding degradation rates: PCE degrades quickly to TCE, which also quickly degrades to DCE, but DCE degrades slowly, resulting in an increasing fraction of DCE and little or no VC. The predominance of DCE is visible at almost all off-site locations.

Also visible in the molar ratios is the relative lack of PCE, and the abundance of DCE and TCE. This supports the premise that PCE does not migrate readily from a source location, and conversely, the presence of a significant PCE fraction at a given location implies a nearby source. Thus, the molar fraction pattern at locations DPT-6B, DPT-6A, and DPT-5A resemble those at locations GBS-7, GBS-6, and GBS-5, although total concentrations are greater at the historical locations. This common pattern strongly indicates that a second PCE source must be nearby location DPT-6.

Finally, the fraction of VC is low or zero at almost all locations with the exception of locations DPT-7(A,B), DPT-8(A,B), and DPT-9A. These locations are down-gradient of the source that appears to be near DPT-6. The presence of VC near this source suggests conditions for dechlorination are more favorable than at other locations.

Conclusions

The following conclusions are offered based on an analysis of historical and recent measurements of tetrachloroethene (PCE) in groundwater under or near the Brenntag facility and review of relevant literature:

- Reductive dechlorination of PCE produces TCE, DCE and VC;
- PCE and TCE have relatively short half-lives, while DCE has a much longer half-life;
- DCE is the most common compound detected in the March 2009 DPT groundwater investigation data;
- A large amount of PCE relative to DCE indicates an active source of PCE. PCE concentrations should decrease rapidly relative to DCE levels if no current PCE source is present;
- The maximum off-site PCE concentration exceeds the maximum off-site DCE concentration suggesting a PCE source other than the Brenntag site;
- The presence of a significant PCE molar fraction at DPT-GW-6 implies a nearby source;
- TCE and DCE may have flowed on-site from the north and west from other PCE sources based on data from locations GBD-1, GBD-2, GBD-8, and GBD-3.

References

Haston, Z.C. and P.L. McCarty. 1999. "Chlorinated Ethene Half-Velocity Coefficients (K_S) for Reductive Dehalogenation." *Environmental Science & Technology.* 33: 223-226.

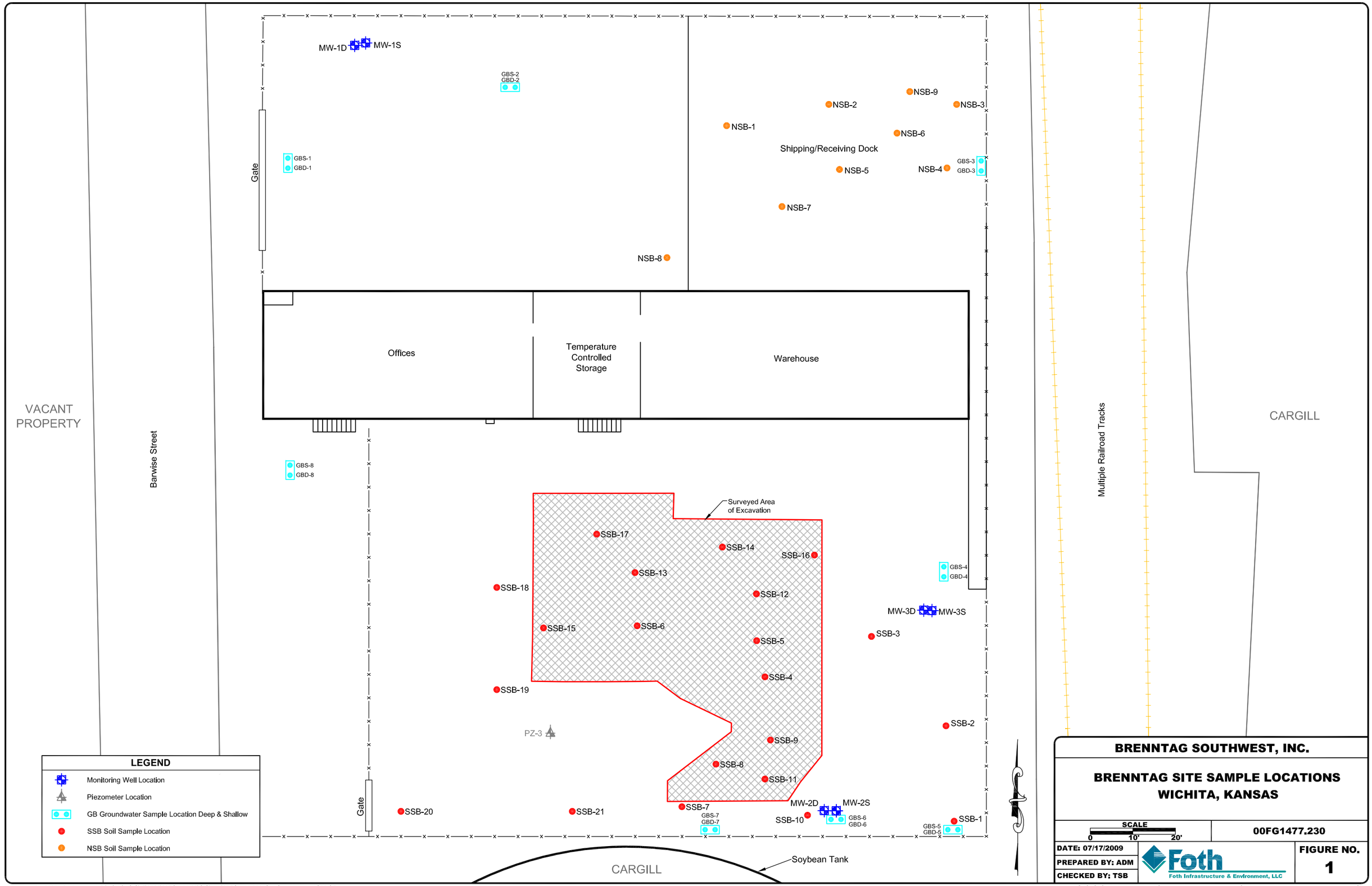
Larson, R.A. and E.J. Weber. 1994. *Reaction Mechanisms in Environmental Organic Chemistry.* Boca Raton: CRC Press.

Washington, J.W. and B.A. Cameron. 2001. "Evaluating Degradation Rates of Chlorinated Organics in Groundwater Using Analytical Models." *Environmental Toxicology and Chemistry*, 20(9): 1909-1915.

Table 1
Statistical Comparison of Historical and Recent Measurements of Chlorinated Ethenes in Groundwater Under and Near the Brenntag Site

Chemical Name	Historical Measurements On-site (µg/L)					Recent (DPT) Measurements Off-site (µg/L)				
	n	Average	Median	Minimum	Maximum	n	Average	Median	Minimum	Maximum
Tetrachloroethene (PCE)	6	211.8	131.5	1.6	590.0	17	14.3	2.7	1.0	156.0
Trichloroethene (TCE)	15	45.0	31.0	4.1	170.0	32	15.2	10.1	1.0	66.5
cis-1,2-Dichloroethene (DCE)	11	100.1	93.0	20.0	220.0	35	45.2	41.0	3.0	125.0
Vinyl chloride (VC)	3	3.4	3.2	2.2	4.7	19	3.4	2.2	1.1	13.5

Figures



BRENNTAG SOUTHWEST, INC.

BRENNTAG SITE SAMPLE LOCATIONS
WICHITA, KANSAS

SCALE 0 10' 20'

00FG1477.230

DATE: 07/17/2009
PREPARED BY: ADM
CHECKED BY: TSB

Foth
Foth Infrastructure & Environment, LLC

FIGURE NO. 1

Aug 24, 2009 - 2:15pm adm1 P:\KCMO- GIS\IE\2009\00FG1477.00\GIS\dwg\00FG1477.230_Site Sample Locs KS83-SF.dwg

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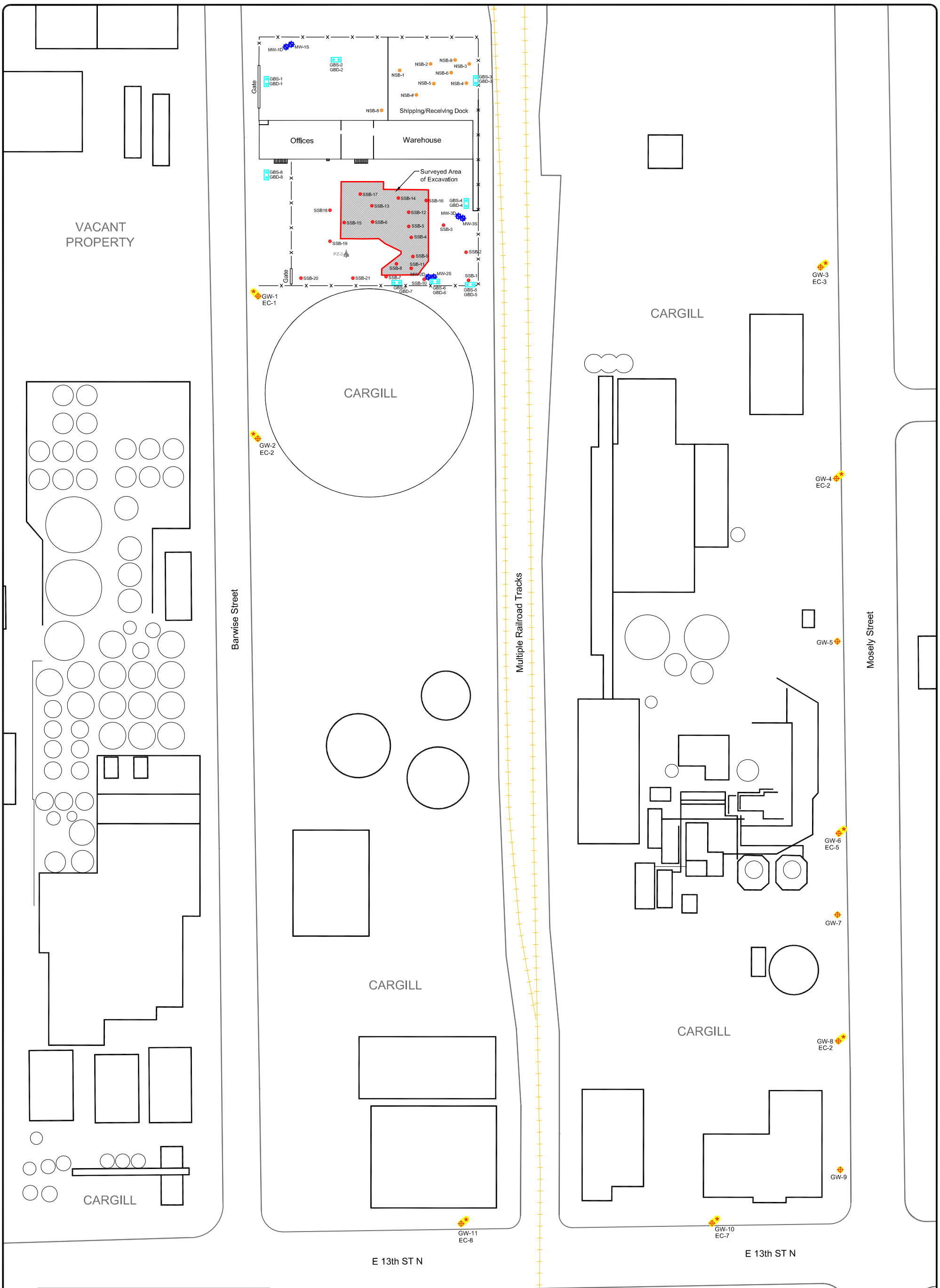

LEGEND

- Monitoring Well Location
- Piezometer Location
- GB Groundwater Sample Location Deep & Shallow
- SSB Soil Sample Location
- NSB Soil Sample Location
- Off-Site DPT Groundwater Location

Note:
1) Locations (8) indicated by an asterisk (*) had EC logging performed till refusal.

BRENNTAG SOUTHWEST, INC.

BRENNTAG SITE SAMPLE LOCATIONS
WICHITA, KANSAS

SCALE 0 35' 70'

00FG1477.230

DATE: 07/17/2009
PREPARED BY: ADM
CHECKED BY: TBS

Foth Infrastructure & Environment, LLC

FIGURE NO. 2

Aug 24, 2009 - 2:14pm adm1 P:\KCMO- GIS\IE\2009\00FG1477.00\GIS\dwg\00FG1477.230_Site Sample Locs KS83-SF.dwg

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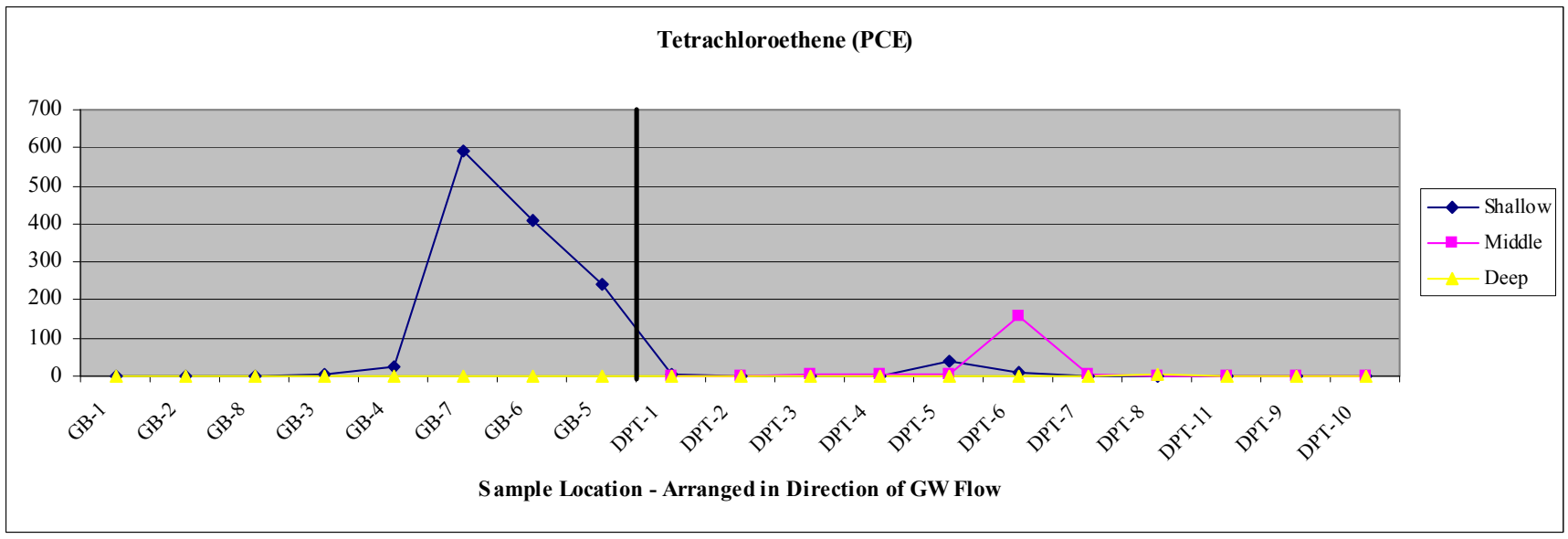
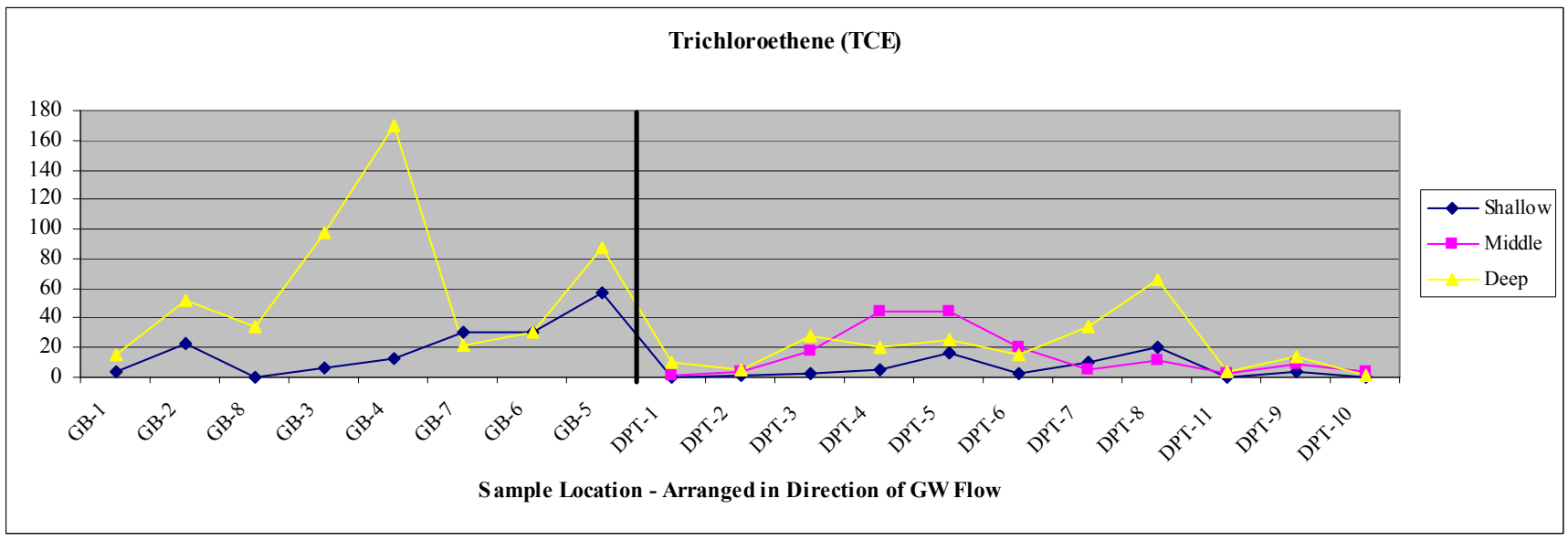
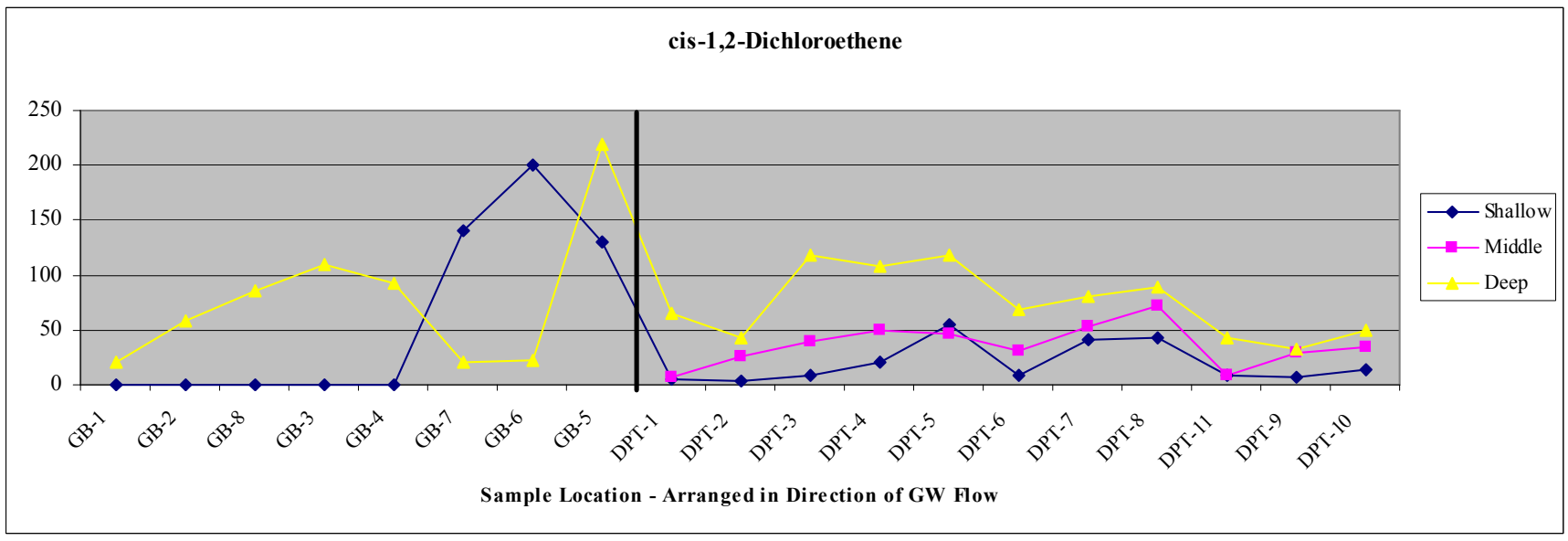
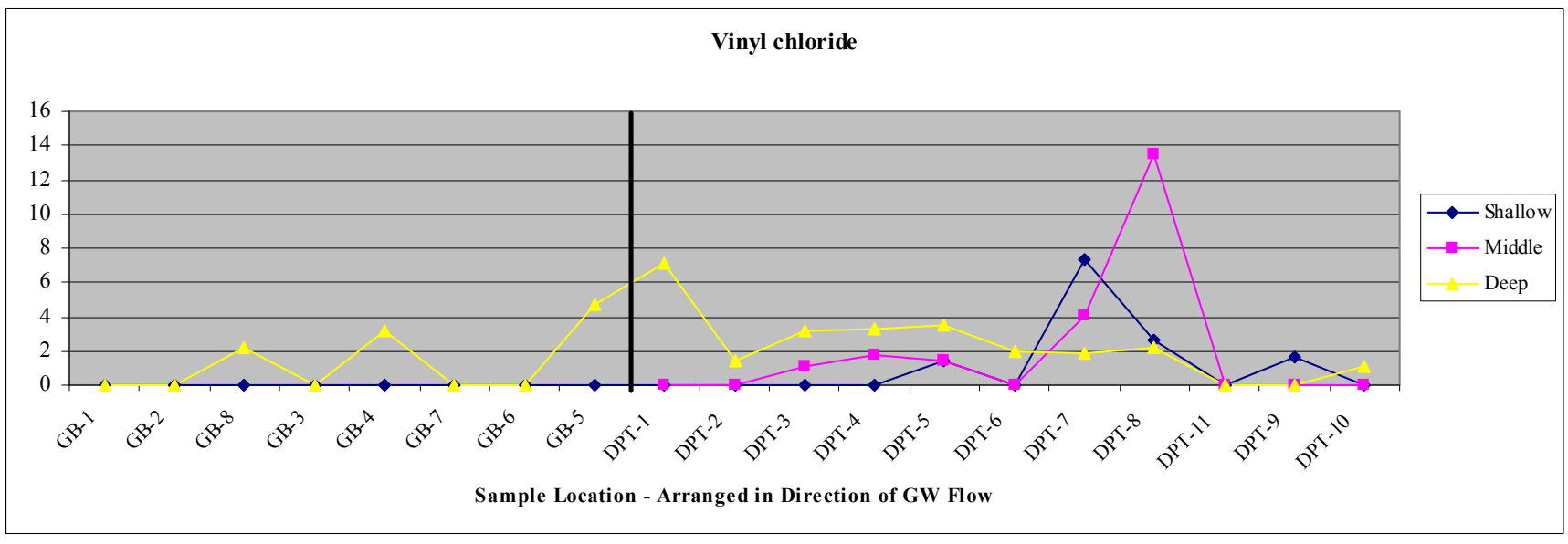
Historical (2004) On-Site | Recent (2009) Off-Site

Micrograms per Liter (µg/L)









Graphs show measured concentrations in groundwater of four chlorinated ethenes. Each graph displays measurements of one chlorinated ethene. Measurements were made on the Brenntag site in 2004 at two depths (Historical (2004) On-Site) and are labeled GW1 through GW-8. Measurements were made off-site in 2009 at three depths (Recent (2009) Off-Site) and are labeled DPT-1 through DPT-11. Sample locations are arranged from left to right generally from up-gradient to down-gradient along a southeasterly groundwater flow.

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REVISED		BY	DESCRIPTION

CHECKED BY: TSB	DATE: 8/25/2009
APPROVED BY: RMK	DATE: 8/25/2009
APPROVED BY:	DATE:

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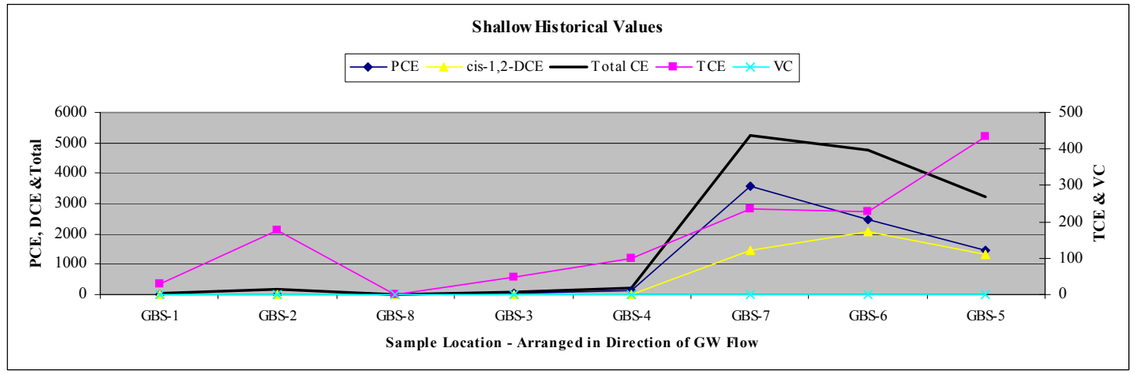
FIGURE 3
Concentrations of Chlorinated Ethenes
At and Near Brenntag Site

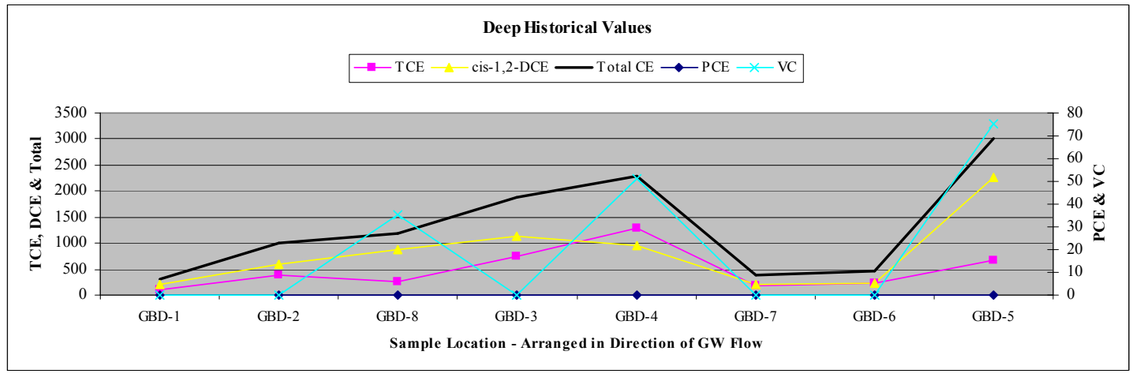
Scale: NA	Date: AUG 2009
Prepared by: JBM	Project No: 06W003

\\sp1\Data\Forrester\clients\Brenntag\Wichita\Work Products\10. Off-site Investigation Results

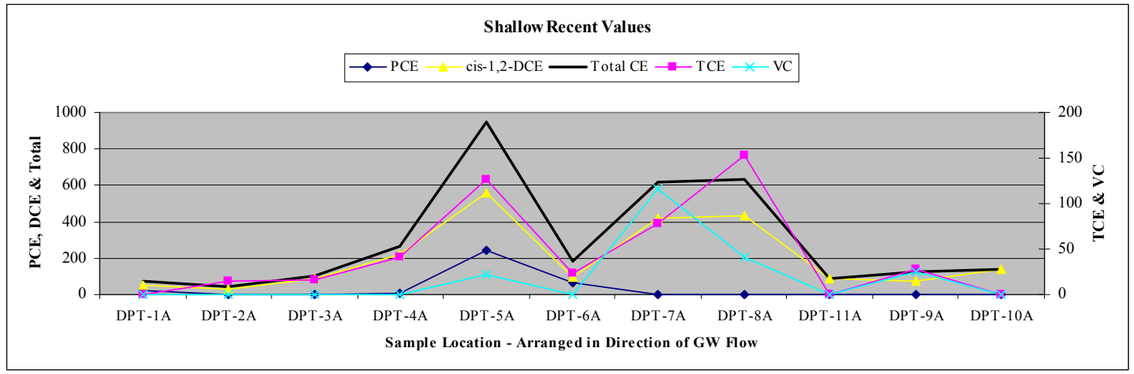
Nanomoles per Liter (nmol/L)

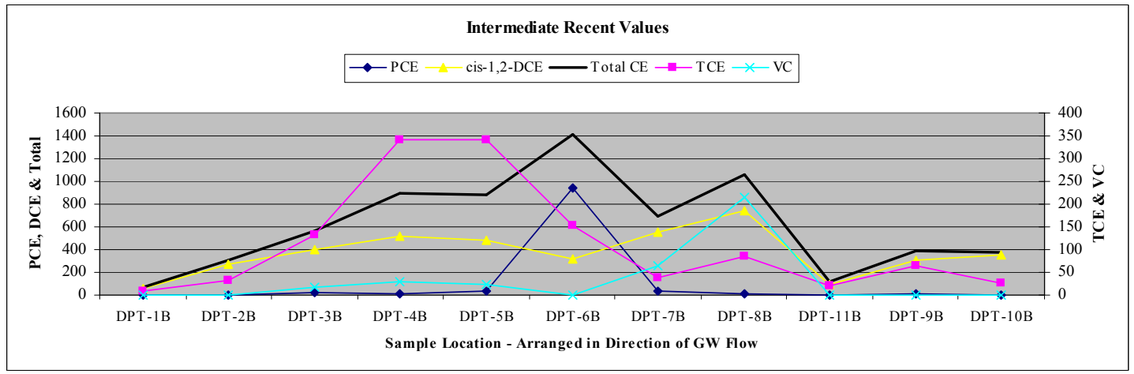
Historical (2004) On-Site





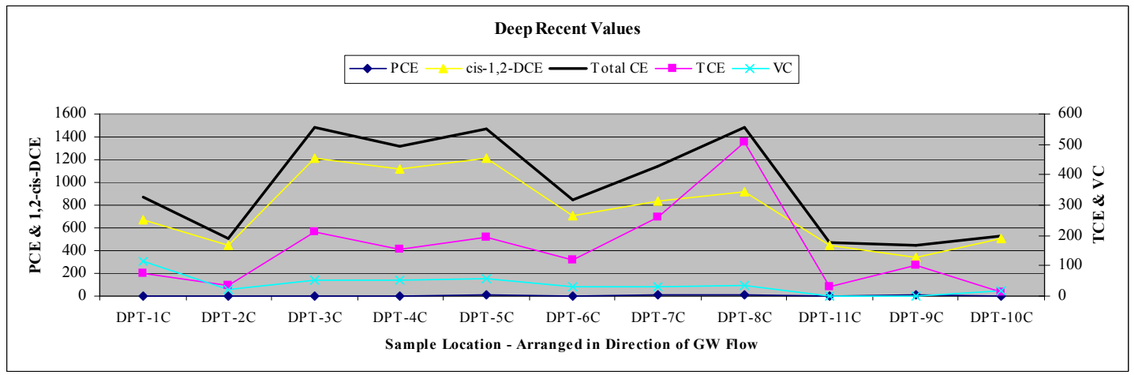
Recent (2009) Off-Site





Nanomoles per Liter (nmol/L)

Graphs display measurements shown in Figure 3 expressed as molar concentrations. Each graph displays four chlorinated ethenes measured at one of two depths on the Brenntag site in 2004 (Historical (2004) On-Site), or one of three depths off-site in 2009 (Recent (2009) Off-Site). Graphs use two y-axes to facilitate comparison of high and low concentrations. Sample locations are arranged along a southeasterly groundwater gradient, as in Figure 3.



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APPROVED BY: RMK	DATE: 8/25/2009
APPROVED BY:	DATE:

BRENNTAG SOUTHWEST, INC.

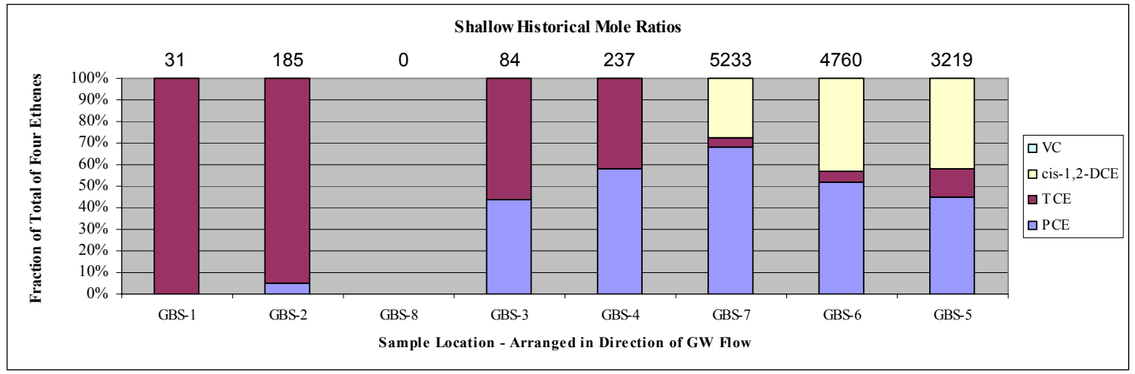
FIGURE 4

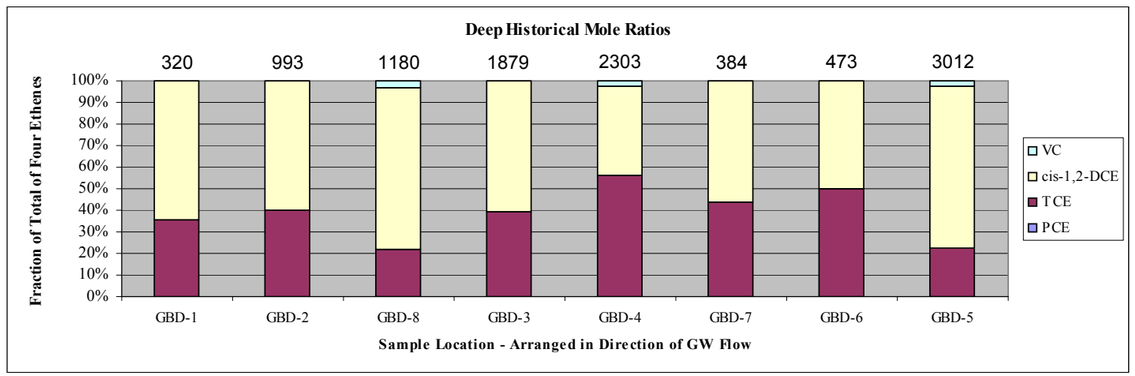
Molar Concentrations of Chlorinated Ethenes At and Near Brenntag Site

Scale: NA	Date: AUG 2009
Prepared by: JBM	Project No: 06W003

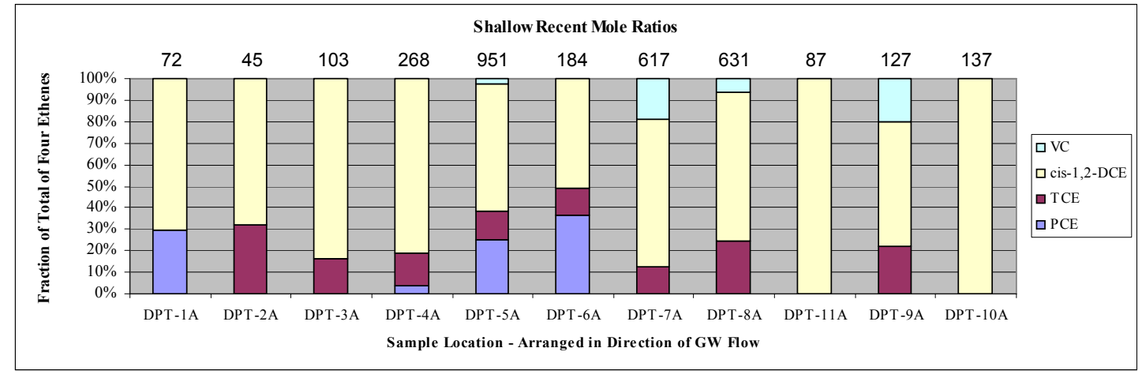
\\sp1\Data\Forrester\clients\Brenntag\Wichita\Work Products\10. Off-site Investigation Results

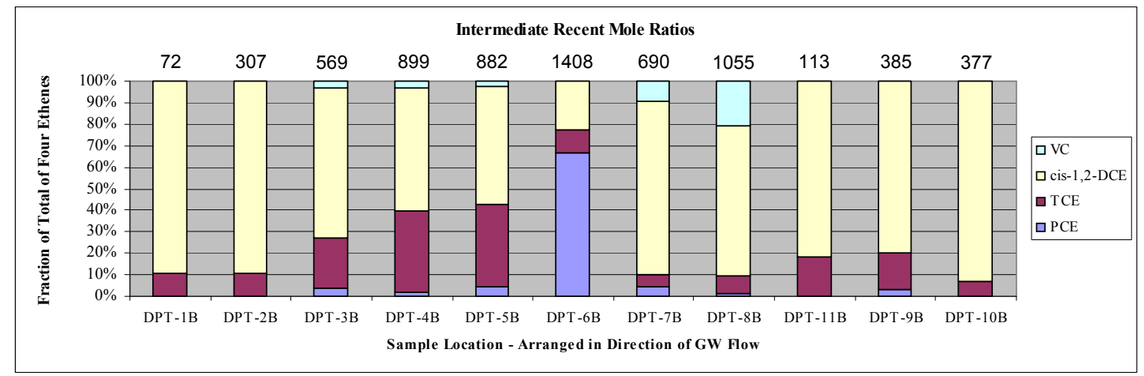
Historical (2004) On-Site





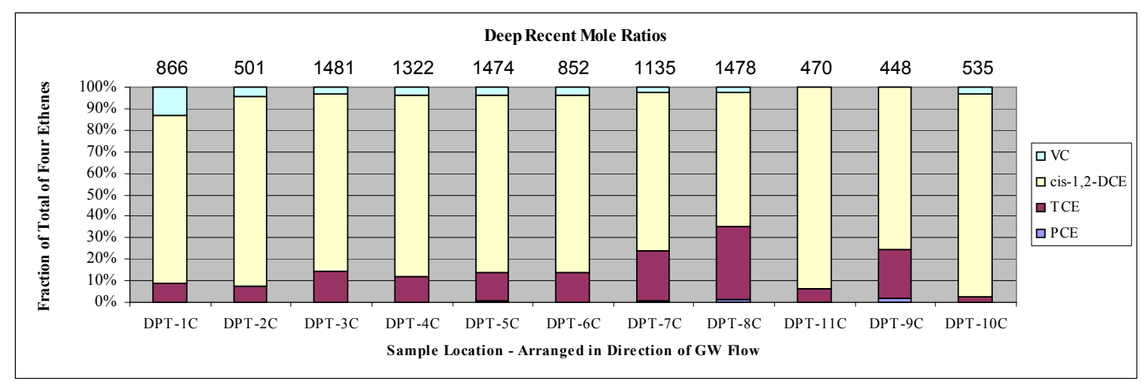
Recent (2009) Off-Site





Graphs display molar concentrations shown in Figure 4 as fractions of the sum of four chlorinated ethenes at each location. The sum of the molar concentrations of the four chlorinated ethenes is shown at the top of each stacked bar in units of nanomoles per liter. Sample locations are arranged as in Figure 4.

The dominant chlorinated ethene is cis-1,2-dichloroethene (cis-1,2-DCE) (followed by trichloroethene, TCE) across both sampling events and a wide range of total chlorinated ethene concentrations. Tetrachloroethene (PCE) is present only near active sources of this compound.



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CHECKED BY: TSB	DATE: 8/25/2009
APPROVED BY: RMK	DATE: 8/25/2009
APPROVED BY:	DATE:

BRENNTAG SOUTHWEST, INC.

FIGURE 5

Fractional Molar Concentrations of Chlorinated Ethenes At and Near Brenntag Site

Scale: NA	Date: AUG 2009
Prepared by: JBM	Project No: 06W003

\\sp1\Data\Forrester\clients\Brenntag\Wichita\Work Products\10. Off-site Investigation Results

Appendix J

Continuing Dechlorination of PCE On and Near Property Memo, February 1, 2012

Memorandum

1402 Pankratz Street, Suite 300
Madison, WI 53704
(608) 242-5900 • Fax: (608) 242-5999
www.foth.com

February 1, 2012

ROBERT M. KICK LICENSED 556 KANSAS GEOLOGIST
2-1-2012

TO: Holly Burke, Kansas Department of Health & Environment

CC: Shawn P. Wiram, Brenntag North America
Robert Kick, LG, Foth Infrastructure & Environment, LLC
Kris Gamble, Foth Infrastructure & Environment, LLC

FR: Jon Manchester, PhD, Foth Infrastructure & Environment, LLC

RE: 1520 BARWISE, WICHITA, KS - CONTINUING INVESTIGATION OF REDUCTIVE DECHLORINATION OF TETRACHLOROETHENE ON AND NEAR BRENNTAG PROPERTY

Purpose

This memorandum presents an analysis of historical and recent measurements of tetrachloroethene (PCE) and related compounds in groundwater under or near the Brenntag facility, located at 1520 Barwise in Wichita, Kansas. The analysis presented here continues and updates a similar analysis conducted in 2009 by examining a record of long-term on-site measurements and recently acquired new data.

Introduction

Long-term groundwater monitoring on the Brenntag property suggests that a past release of PCE into soil may have contributed to PCE found in groundwater under the property. Groundwater concentrations of PCE decreased significantly following removal of the affected soil. The continued decrease in groundwater PCE concentrations, as well as the appearance of PCE degradation products, strongly suggests that residual PCE is undergoing reductive dechlorination as a result of natural processes.

The evidence for ongoing reductive dechlorination of PCE in groundwater under and near the Brenntag property was first presented in a memorandum (prepared by Foth Infrastructure & Environment, LLC on behalf of Brenntag Southwest, Inc.) regarding "Reductive Dechlorination of Tetrachloroethene On and Near Brenntag Property," dated August 25, 2009 (first PCE memo). The first PCE memo provides extensive background information on reductive dechlorination of PCE. Background information from the first PCE memo is summarized below:

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- Reductive dechlorination of PCE refers to the process of transferring electrons from an electron donor (also known more generally as a reductant) to one carbon atom and one chlorine atom of the PCE molecule. The chlorine atom is replaced on the reduced carbon atom by a hydrogen ion. The products of this reaction are trichloroethene (TCE – identical to PCE but with three rather than four chlorine atoms) and a chloride ion.

- The product of the PCE dechlorination reaction, TCE, can become the reactant in a subsequent dechlorination reaction, and products of this reaction may themselves be dechlorinated. The chained reaction sequence may eventually produce fully dechlorinated ethene, and so detoxify the original contaminant. The chain of reactants and products proceeds as follows:

  - tetrachloroethene (PCE) → trichloroethene (TCE) → *cis*-1,2-dichloroethene (DCE) → monochloroethene (VC, vinyl chloride) → ethene.

- Naturally occurring reductants (electron donors), both abiotic and biotic, are commonly found in soil and groundwater. The prevalence of electron donors facilitates the reductive dechlorination of chlorinated ethenes, and this process is often observed in natural settings.

- Reaction rates of the chained dechlorination reactions vary among the specific reactions.

  - PCE, and to a lesser extent TCE, tend to dechlorinate rapidly.

  - DCE and VC dechlorination reactions proceed slowly relative to PCE and TCE.

- Variation in reaction rates give rise to specific patterns of relative concentrations of chlorinated ethenes in groundwater that differ depending on whether or not an active source of PCE is present near a particular monitoring location.

  - If an active PCE source is present, PCE groundwater concentrations will be similar to those of TCE and DCE.

  - If a PCE source is not present, TCE and particularly DCE will be present at concentrations greater than that of PCE.

The first PCE memo presented an analysis of concentration measurements of chlorinated ethenes (CEs) in groundwater under the Brenntag property obtained before removal of the soil containing PCE. These concentrations in on-site groundwater samples were compared to CEs measured in off-site groundwater samples that were collected using direct-push technology (DPT). The DPT samples were obtained in 2009, approximately eighteen months after removal of the affected soil from the Brenntag property. Also, the

The information contained in this memorandum is considered privileged and confidential
and is intended only for the use of recipients and Foth.

2009 DPT samples were collected from locations that were generally downgradient of the Brenntag property with respect to direction of groundwater flow.

Based on the above analysis, the following conclusions were provided in the first PCE memo:

- DCE was detected more often than the other three CEs in the 2009 off-site DPT samples, suggesting extensive degradation of PCE and TCE had occurred on- and off-site.
- The maximum off-site PCE concentration exceeded the maximum off-site DCE concentration, suggesting an off-site source of PCE was present.
- Unlike other off-site locations, PCE contributed about 65% of the total chloroethenes in groundwater at one location (GW-6 intermediate depth, also known as DPT-6B) along Mosely Street east of the Cargill facility. The presence of predominantly PCE in groundwater at this location indicated that a source of PCE was very near this location.
- Data from historical samples collected upgradient from the Brenntag soil previously containing PCE strongly indicate that TCE and DCE are migrating on-site in groundwater from locations to the north of the Brenntag site.

This memorandum provides an analysis of a long-term data set of CE measurements from wells on the Brenntag property, as well as new data collected both on- and off-site. Data collection and subsequent analysis are designed to assess the conclusions offered in the first memo.

Site Conditions, Methodologies, and Conceptual Model

Site Conditions

The Brenntag property is located in an industrial area of Wichita. Numerous nearby facilities, located in an area known as the Northern Industrial Corridor (NIC), are suspected or known to have released CEs into the environment. Suspected, identified, and confirmed sites are listed in the *Final NIC Remedial Investigation Addendum* dated November 2005, available through the Kansas Department of Health and Environment (KDHE). Many of these sites are north of the Brenntag property and upgradient with respect to groundwater flow. Three facilities are particularly relevant to this analysis. The Western Uniform and Towel Service, Inc. facility is an identified PCE source area located approximately 1,550 feet north of the Brenntag site. Also, the Wichita Mirror & Glass and Parker Boss facilities, located approximately 530 feet north of the Brenntag site, are identified as TCE source areas.

Soil on and near the Brenntag property generally consists of two dominant strata. Surface soils, extending eight to ten feet below ground surface (bgs), are comprised of silt and

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clay. A sand layer is found beneath the surface layer and extends to bedrock at approximately 35 to 40 feet bgs; a minor and thin (nominal two feet) layer of silt is occasionally encountered within the sand layer.

Soil affected by the on-site PCE release was primarily contained in the surficial clay and silt soil horizon. Transport of PCE away from the original release was most likely limited due to the propensity of these soil types to bind and retain many organic compounds. Remediation of soil containing PCE was completed in September 2007 by removing the affected clay and silt. Excavation was halted at the top of the sand layer, and the removed soil was replaced with clean soil and covered with concrete. Confirmation soil sampling after excavation showed that all PCE bound to soil, with the exception of a small residual, had been removed.

Groundwater flow across the Brenntag site and adjoining downgradient properties is shown in Figure 1. Figure 1 displays groundwater elevation contours; groundwater flow paths are perpendicular to these contours. The figure shows that groundwater enters the Brenntag site flowing north to south, but then bends to the southeast as it crosses downgradient properties. Flow is generally east-southeast as the water flows under Mosely Street.

Estimates based on on-site well heads suggest that groundwater flow velocities are 300 to 400 feet per year in near-surface soils and greater in deep soils. Given the approximately 750-foot distance from the northwest corner of the Brenntag property to the middle of the Cargill property along Mosely Street (as shown in Figure1), groundwater may have flushed the soil between these points several times since removal of soil containing PCE from the Brenntag property.

Methodologies

The first PCE memo analyzed a single set of on-site measurements collected before soil remediation and compared these values to a second set collected off-site in March 2009. In each set, groundwater samples were collected using DPT methods and analyzed for a suite of organic compounds including PCE, TCE, DCE, and VC. Conclusions from this initial analysis are discussed above.

To further assess the fate and transport of PCE and related CEs in groundwater under and near the Brenntag site, the analysis presented here examines the extensive data set created from measurements of the concentrations of PCE, TCE, DCE, and VC in groundwater collected from three shallow and deep well pairs on the Brenntag site. One well pair, MW-1S and MW-1D, is located on the north edge of the site, upgradient from the remediated soil area, while the other two are near the area of soil remediation; MW-2S and MW-2D are directly downgradient, and MW-3S and MW-3D are along side of the remediated area and cross-gradient with respect to groundwater flow. Well labels use “S” and “D” to denote the shallow and deep well in each well pair. Shallow wells are screened between 15 and 25 feet bgs; deep wells vary slightly, but are generally screened between about 31 and 38 feet bgs. Since the soil remediation work in September 2007,

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each of these wells has provided fifteen measurements of groundwater concentrations of CEs; samples were collected quarterly between February 2008 and September 2011. Well pairs MW-1, MW-2, and MW-3 are referred to here as long-term wells.

In addition to the three long-term well pairs, three new well pairs have recently been installed and are now providing measurements of CEs in groundwater. Well pair MW-4S and MW-4D is located very near the area of remediated soil, while MW-5S and MW-5D, and MW-6S and MW-6D are located along Mosely Street in the vicinity of the 2009 DPT sampling locations. These three well pairs are screened at depths similar to the long-term shallow and deep wells. Three sets of chlorinated ethene groundwater concentration measurements, obtained in April, June, and September 2011, are currently available from each of these three well pairs. Well pairs MW-4, MW-5, and MW-6 are referred to here as new wells.

All six well pairs and the DPT sampling points discussed in the first PCE memo are shown in Figure 2, as is the location of the former excavation area. Note that new well pair MW-6 is very near GW-6 (DPT-6 in the label nomenclature of the first PCE memo), and measurements from MW-5, based on location, may be compared with those previously obtained from GW-5 (DPT-5).

The analysis of the fate and transport of CEs in groundwater on and off the Brenntag site is primarily based on the concentration measurements obtained from the long-term and new well pairs (and, as in the first PCE memo, only values greater than the laboratory Limit of Quantitation [LOQ] are considered here). However, in addition to these measurements, two complimentary sets of water quality parameters have been obtained from groundwater samples collected during the April, June, and September 2011 quarterly sampling events. The first set of additional water quality parameters consists of measurements indicative of environmental conditions that may facilitate reductive dechlorination of CEs. The second set of parameters is obtained from compound-specific isotope analysis. These measurements are often useful in an assessment of whether reductive dechlorination is occurring, as well as potentially providing information on multiple sources of CEs.

As stated above, only concentration measurements that were reported as fully quantified by the analytical laboratory (above the LOQ) are considered in this analysis. However, five measurements (out of a total of 360) were subsequently flagged in post-laboratory review for minor QA/QC concerns. Further review of these values determined that they were appropriate for inclusion in this analysis. Each of these five values is identified on figures where they appear.

Conceptual Model

Based on available information including the analysis presented in the first PCE memo, the following conceptual model is proposed for CEs in groundwater under and near the Brenntag site:

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- A past release of PCE onto surface soil on the Brenntag site created a source of PCE that contributed to PCE in groundwater near this source.

- Favorable environmental conditions in the soil and groundwater promoted the rapid dechlorination of PCE to TCE, and TCE to DCE.

- Removal of soil containing PCE essentially eliminated groundwater exposure from this previous source.

  - Low levels of residual PCE in soil near the remediation location will continue to dechlorinate to DCE, VC, and ethene.

- Residual PCE dechlorination products (DCE, possibly VC) in groundwater under the Brenntag site from the past PCE local source are now present at levels that are comparable to concentrations of these compounds that are flowing onto the Brenntag property from nearby upgradient sources.

  - CEs in groundwater under the Brenntag property will eventually be represented only by TCE, DCE, and VC contributed by upgradient, off-site sources. Elimination of these constituents from groundwater under the Brenntag site will require elimination of the upgradient, off-site sources.

- PCE detected in downgradient, off-site wells is most likely the result of a nearby active source of PCE unrelated to the past, now removed, Brenntag soil PCE source.

The current analysis will examine the data described above for evidence to support or refute the above conceptual model.

Data Analysis

On-Site Mass Concentration Time-Series

The concentrations of PCE, TCE, DCE, and VC measured in groundwater from long-term on-site well pairs MW-1, MW-2, and MW-3 are shown in Figure 3. Each graph in Figure 3 shows the mass concentration in micrograms per liter (µg/L), displayed on the y-axis, of one chlorinated ethene. Each graph also displays the result of 90 individual analyses (three wells pairs, two depths each pair, 15 quarterly measurements) for the chlorinated ethene shown on the graph. Measurements from each well pair are plotted with a unique color; measurements from a specific well and shallow depth are connected by a solid line; measurements from a specific well and deep depth are connected by a dashed line. Six measurements from each quarterly sampling event are grouped by sampling date, as indicated by the monthly time scale on the x-axis. Note that non-detects are represented by zero values that cluster and overlap along the x-axis.

Several relevant conclusions may be drawn from the measurements displayed in Figure 3:

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- PCE in on-site groundwater is almost exclusively limited to water from shallow depths near well pairs MW-2 and MW-3.
  - PCE is not observed in water from MW-1, shallow or deep. This observation may reflect a limited number of upgradient, off-site sources of PCE, but would also result from rapid degradation of PCE. Rapid degradation would greatly limit the transport of PCE away from point sources.
  - The greatest concentration of PCE (103 µg/L) is found in the first sample collected from MW-2S post-remediation, and subsequent concentration measurements rapidly fall to about 5% of this initial value. Furthermore, though not shown in Figure 3, pre-remediation PCE concentrations from MW-2S were much greater than post-remediation concentrations. For example, PCE concentration in water from MW-2S collected in December 2003 was 410 µg/L. Thus, removal of soil containing PCE reduced nearby groundwater PCE concentrations by more than 98%.
  - Measureable and decreasing concentrations of PCE are also observed in MW-3S. These values may reflect a small residual of PCE in soil near this well.
- Unlike PCE, TCE is found in shallow and deep water from all three well pairs.
  - Greatest concentrations of TCE in post-remediation groundwater samples (16.5 µg/L) are found in those samples collected from MW-3S immediately after soil remediation, and these concentrations decrease by about 50% over the three-year record. It is very likely that TCE concentrations in this well are supported in part by dechlorination of the PCE also observed in this groundwater.
  - A similar pattern of early greater then decreasing levels of TCE is also found in groundwater from MW-2D and MW-3D. As with MW-3S, it is likely that these TCE levels are supported in part by dechlorination of small amounts of residual soil PCE.
  - Concentrations of TCE in groundwater from MW-1, both shallow and deep, are relatively constant over the three-year record. TCE is often present in these wells at 1-2 µg/L, although occasionally falls below detection limits.
  - Concentrations of TCE in water from MW-2D and MW-3D are decreasing and approaching the levels found in groundwater from the MW-1 well pair. This result strongly supports the concept that levels of TCE in on-site groundwater will eventually be set by transport from off-site sources.

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- The presence of nearby off-site sources of TCE is supported by the relatively constant levels of this chlorinated ethene observed in the MW-1 well pair. Like PCE, TCE should rapidly dechlorinate to form DCE. Thus, constant low levels in MW-1 groundwater must be sustained by a nearby off-site source or sources.

- Occasional disappearance of TCE from MW-1 groundwater may reflect variability in laboratory detection limits, but it may also be due to periodicity in groundwater flow from the TCE sources to MW-1 and rapid dechlorination once flow is interrupted.

- Levels of DCE in all three deep wells are similar over time, and often an order of magnitude greater than DCE levels in the three shallow wells. This result (comparable levels of DCE in wells both up- and downgradient from the past on-site source) strongly indicates that transport of DCE from upgradient, off-site sources supports a regional background concentration of DCE that delivers a substantial amount of the DCE in groundwater under the Brenntag property.

  - It is noted that relative levels of PCE, TCE and DCE in MW-2S tend to decrease in unison, as would be expected when nearby residual PCE dechlorinates to TCE, which then dechlorinates to DCE.

- Vinyl chloride (VC) is found exclusively in the three deep wells, and predominantly in MW-3D.

  - This result is expected based on the dechlorination sequence and different rates of dechlorination. PCE and TCE dechlorinate rapidly, but DCE dechlorinates more slowly to form VC. Observed concentrations of VC are as expected, if much of the DCE that flows onto the Brenntag site also flows off site without dechlorinating to form VC.

  - Note that concentrations of DCE and VC in MW-3D are correlated over time. This is the expected result as residual PCE near MW-3D undergoes extensive dechlorination to form VC, but with an intermittent accumulation of DCE.

  - Concentrations of DCE and VC are also correlated in MW-1D and MW-2D in samples obtained during 2009, a time when DCE levels are elevated in MW-1D relative to earlier and later samples. This result indicates that varying groundwater flow delivers these compounds to the Brenntag property from upgradient sources that support regional background concentrations of DCE and VC.

Examination of the y-axis of each graph in Figure 3 provides a rough scaling of the relative concentrations of the four CEs found in groundwater under the Brenntag site. Note that the y-axis scales for PCE and DCE are of comparable magnitude (maximum of

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120 µg/L for each graph), and the y-axis scaling of TCE and VC are lower (TCE maximum of 18 µg/L; VC maximum of 3.5 µg/L). Scale maximums are set by the largest displayed value and this is particularly misleading for the PCE graph, as the largest values occur only at the beginning of the time-series and, as noted previously, fall rapidly as the series progresses. Nonetheless, the y-axis scales are qualitatively as expected for a site with residual PCE that is rapidly being reductively dechlorinated to form VC, via TCE and DCE intermediates. Specifically, PCE levels fall rapidly as TCE is formed. However, TCE levels do not increase to levels comparable to the original PCE concentrations because TCE is also rapidly dechlorinated to form DCE. Unlike PCE and TCE, DCE dechlorinates at a slower rate, and so does increase to levels comparable to initial PCE levels. Finally, as DCE is dechlorinated, low levels of VC are formed (again, note the correlation between the DCE and VC concentration time-series). Continued dechlorination of VC to form ethene gas will also limit maximum VC levels.

To further assess the long-term relationship between groundwater mass concentrations of the four CEs observed on-site, the results of a statistical analysis of the long-term data are shown in Table 1. Statistics are presented in Table 1 for data from shallow wells, deep wells, and across both shallow and deep wells.

The following observations are based on the values shown in Table 1:

- TCE and DCE are the most often detected CEs in on-site groundwater samples, as shown by the number of observations (n) across all wells.
  - This result is consistent with the concept that residual on-site PCE is dechlorinating to form TCE, which further dechlorinates to produce DCE.
- PCE is essentially only found in shallow wells. Four deep-well detections occurred in samples collected immediately after on-site soil remediation; PCE has not been detected since in on-site deep wells.
  - This result indicates that the small PCE residual is not migrating from the remediation area, due most probably to retention by soil and rapid dechlorination.
- VC is only detected in deep wells.
  - This result may reflect the greater environmental mobility of VC, and may also indicate that VC is transported on-site by deeper groundwater from upgradient sources resulting from dechlorination of more chlorinated CEs.
- Despite the fact that the average and median concentrations of PCE are biased upward by data collected shortly after remediation, long-term PCE levels are not substantially greater than TCE and particularly DCE.

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- Average PCE concentration in shallow wells is 18% of the maximum initial concentration measured post-remediation, while the minimum concentration is only 4% of the initial value.

- DCE has the highest average, median, and maximum concentrations of CEs measured in all wells. Average DCE concentration across all wells is about 50% greater than PCE in these wells.
  - Average DCE concentrations are highest in deep wells, and DCE concentrations are much greater than other CEs in these wells.
    - This result strongly indicates ongoing reductive dechlorination of more chlorinated CEs, and, as with VC results, may indicate that DCE is transported on-site by deeper groundwater from upgradient sources.
- The pattern present in average concentrations across all wells of PCE, TCE, DCE, and VC is as expected on a site that no longer has an active PCE source, and on which reductive dechlorination is degrading a past PCE release, as described above in the site conceptual model.

On-Site Molar Concentration Time-Series

Comparison of measurements of a single compound collected at different times and locations may be done using mass concentrations (µg/L), as in Figure 3. However, comparisons of amounts of different but chemically similar compounds, such as CEs, measured simultaneously at one location and time, are best done using molar concentrations (mass concentrations divided by compound molecular weight). This approach has the added benefit that sums of molar concentrations of chemically similar compounds produce meaningful total values for the family of compounds, for example, total CEs.

The measured concentrations shown in Figure 3 are converted to molar concentrations and reorganized into sets of values representing measurements of four CEs in groundwater samples obtained from each of the three on-site long-term well pairs. The molar concentrations are displayed in Figure 4 as six time-series graphs, one graph for each of the six long-term wells. Each chlorinated ethene is displayed using a unique color that remains constant across the six graphs. Note that the three shallow wells are on the left of Figure 4, and the three deep wells are on the right. Concentration units on all six graphs are nanomoles per liter (nmol/L), and values on each graph are grouped by sampling date, as indicated by the monthly time scale on the x-axis. Each graph also contains a black line generated by connecting the sums of the molar concentrations of the four CEs measured on each sampling date. Thus, the black line displays a time-series of total molar concentration of CEs in each of the long-term wells.

Several of the relationships among the concentrations of CEs measured in the long-term wells, and previously identified by comparing mass concentrations of each CE (Figure 3), are also visible in the molar concentrations shown in Figure 4. For example, the expected

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relationship among concentrations of PCE, TCE, and DCE near an active source of PCE is visible in early post-remediation measurements shown on the left of the MW-2S graph in Figure 4. The small residual of PCE present at that time near MW-2S supports groundwater concentrations of PCE that rapidly decrease over time. The concentrations of TCE and DCE are highly correlated with the PCE concentrations, and the molar concentration of DCE is less than, but almost equal to the concentration of PCE. As previously discussed, this relationship is expected when a PCE source is present, but reductive dechlorination is occurring and rapidly degrading PCE to TCE, which then also quickly dechlorinates to form the more slowly dechlorinating DCE. With a nearby source of PCE undergoing reductive dechlorination, each mole of PCE dechlorinates to create one mole of TCE, which then dechlorinates to form a mole of DCE. Thus, DCE molar concentration closely tracks the original PCE molar concentration.

The MW-2S graph also illustrates the expected trend in total CEs (the black line) when CE concentrations are controlled by a nearby source of PCE that is being dechlorinated. Like the parent compound (PCE), total CE molar concentration rapidly declines as each CE forms and then degrades. At some point in time, total CE concentration is no longer related to the original nearby PCE source, but rather to background concentrations of each CE in the regional groundwater.

The fact that regional, off-site sources of CEs are contributing to CE concentrations under the Brenntag site is clearly visible in the MW-1S graph in Figure 4. Although PCE is never detected in this well that is upgradient from the past on-site source, TCE and DCE are often present, with almost the entire total CE concentration due to DCE. Also, the total CE concentration in MW-1S, while highly variable, is often similar to recent measurements of total CE in MW-2S (directly downgradient of the past on-site source). Thus, upgradient, off-site sources of several CEs, particularly DCE, are becoming the dominant source of these compounds in groundwater under the Brenntag property.

The dominant role played by upgradient, off-site sources of CEs is particularly apparent in the molar concentration time-series graphs for all three deep wells, shown in Figure 4. Total CE concentrations in each of the deep wells are almost exclusively due to DCE, although TCE is also present. Concentrations are correlated over time, implying that off-site sources are modulating the variation in concentrations before groundwater flows under the Brenntag property. Concentrations of several hundred nmol/L are consistently observed in all three wells, with somewhat higher levels found in MW-3 Deep. It is noted that these concentrations are an order of magnitude or greater than those measured recently in MW-2S, despite the proximity of that well to the previous on-site source.

On-Site Relative Molar Concentrations

Absolute molar concentrations like those shown in Figure 4 provide information about the relative amounts of PCE and related CEs. However, relative amounts are difficult to discern when low and high concentrations are plotted on a single vertical axis. Also, trends across multiple sampling dates are not apparent when the total CE concentration changes across sampling events.

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Comparisons across sampling dates of relative amounts of CEs are facilitated if concentrations of individual CEs are plotted in relative, rather than absolute, concentrations. Graphs of this type are shown in Figure 5. The six graphs shown in Figure 5 are identical to those in Figure 4, except concentrations of individual CEs are shown as mole fractions of the total CE concentration measured on each sampling date and displayed as stacked bars for each sampling event. Each graph also displays the absolute concentration of total CE on each sampling date as a black line on each graph; these are identical to those on the graphs in Figure 4. Note that each graph has two vertical axes; the left axis shows mole fraction concentrations as percent of total CE (for the stacked bars), and the right axis shows absolute molar concentrations (for the total CE plots).

Many of the previously discussed trends in CE concentrations in groundwater from each of the six on-site long-term wells are clearly visible in Figure 5. Specifically:

- With minor exceptions immediately after soil remediation, PCE is only found in shallow wells MW-2S and MW-3S. PCE groundwater concentrations in these shallow wells are a result of nearby residual soil PCE.
  - Initial high levels of total CE are composed of PCE and expected dechlorination products TCE and DCE.
  - As total CE concentrations reach minimum levels during 2010, only very low levels of PCE are present. These very low PCE concentrations (essentially at or below residential groundwater standards) may be below levels that support reductive dechlorination.
  - A small increase in total CE concentrations in recent measurements from MW-2S are accompanied by reappearance of TCE and DCE, indicating continuing reductive dechlorination and/or transport of these compounds from upgradient sources.
  - With the exception of the September 2011 measurement, recent measurements of CEs in MW-3S are about twice comparable concentrations in MW-2S. This result may indicate a somewhat greater PCE residual near MW-3S. However, reductive dechlorination is degrading PCE to form TCE and DCE.
- The total CE concentrations in all three deep wells are several times greater than those in MW-2S and MW-3S.
  - Total CE concentrations in MW-1D (upgradient from the past on-site PCE source) are generally equal to or greater than those in MW-2D, and are composed almost exclusively of DCE and lesser amounts of TCE.

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- This result demonstrates that upgradient, off-site sources are becoming the dominant source of CEs in groundwater under the Brenntag property.

Taken together, the molar concentrations and mole fractions shown in Figures 4 and 5, respectively, support several elements of the conceptual model presented above. Specifically:

- The remediation of soil containing PCE essentially eliminated this previous source of groundwater PCE.
- Residual PCE is being degraded by reductive dechlorination, as demonstrated by decreasing concentrations of PCE and co-varying concentrations of dechlorination products TCE and DCE.
- TCE and particularly DCE are flowing onto the Brenntag property from upgradient, off-site sources.
- Upgradient, off-site sources are becoming the dominant source of TCE and DCE in groundwater under the Brenntag property.
- In deep groundwater, DCE is the dominant CE, as expected based on dechlorination pathways and rates.
- DCE in deep groundwater under the Brenntag site is uniformly present at much greater levels than in shallow groundwater near the past on-site source of PCE.

Comparison of On-Site and Off-Site Measurements

As described above, three new well pairs (MW-4, MW-5, and MW-6) are now available to further investigate fate and transport of CEs both on and off of the Brenntag site (Figure 2). Measured concentrations of PCE, TCE, DCE, and VC were obtained from samples collected from these well pairs during April, June, and September 2011. Concentration measurements of these CEs representing the same three 2011 sampling events are also available for long-term well pairs MW1, MW-2, and MW-3.

A statistical overview of mass concentrations of CEs measured in long-term and new wells is presented in Table 2. Table 2 shows comparisons between average and median values of CE concentrations in long-term wells (these values are identical to those in Table 1) with the average of April, June, and September 2011 measured values from MW-4, MW-5, and MW-6. Statistics are calculated separately for measurements obtained in shallow and deep wells, as in Table 1.

Several observations based on the results in Table 2 are presented below:

- Average concentrations of TCE and DCE measured in MW-4 Shallow and MW-4 Deep are comparable to long-term average and median values measured in the other three on-site wells.

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- As with the long-term deep wells, the average concentration of DCE in MW-4D is much greater than the other three CEs. This well, like the other deep wells, appears to sample groundwater that reflects the elevated levels of DCE in regional groundwater.

- PCE is detected in only the shallow well of the MW-4 well pair (and the average is based on only one detection). Given the proximity and downgradient location of MW-4 to the past on-site PCE source, this result demonstrates the general lack of migration of PCE from the historical point of release.

- Average concentrations of PCE measured in off-site wells MW-5S and MW-6S are essentially identical to the average and median PCE concentrations in on-site long-term wells, despite the fact that the long-term values are biased high by the past on-site PCE source. This result strongly indicates that a distinct PCE source is near the new, off-site wells.

  - Average concentrations of TCE and DCE are greater in new shallow wells than in the long-term wells.

  - Average concentrations of TCE and DCE are similar to average PCE concentrations in the new shallow wells, as would be expected given a nearby source of PCE that is undergoing reductive dechlorination.

- The average concentrations of DCE in both new off-site deep wells are similar to the average and median DCE concentrations in on-site deep wells, supporting the concept that deep wells are sampling a broad regional source of DCE in groundwater.

Further analysis of long-term and new well measurements obtained from samples collected during April, June, and September 2011 uses graphical comparisons. For these comparisons, measurements from new well pair MW-4 may be compared to similar measurements from well pairs MW-1, MW-2, and MW-3; these well pairs are all on-site. To provide comparison values for new well pairs MW-5 and MW-6 (off-site well pairs), concentrations measured in March 2009 using DPT methodology (and discussed in the first PCE memo) are included in this analysis. Based on location, measurements obtained from samples collected by DPT-5 and DPT-6 provide the most appropriate comparisons with new measurements from MW-5 and MW-6 well pairs, respectively.

The DPT sampling program conducted in 2009 collected groundwater from three depths; new well pairs collect from two depths. Comparison of the actual sample depths indicates that averages of measured concentrations representing DPT shallow and intermediate depths are most appropriate for comparison to the concentrations measured at shallow depths in the new sampling wells. Concentrations measured by DPT at deep depths may be directly compared with similar measurements made on samples collected in the deep wells of the new well pairs.

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All of the above concentration measurements (those from MW-1 through MW-6 shallow wells and concentration average values from DPT 5 and DPT 6 shallow and intermediate depths; and those from MW-1 through MW-6 deep wells and DPT 5 and DPT 6 deep depths) are displayed and compared in Figure 6. Note that well measurements are shown as average values of measurements made during April, June, and September 2011. Values from shallow depths are shown on the left of Figure 6, and values from deep depths are shown on the right.

The comparisons shown in Figure 6 are the same as those previously presented for the long-term well measurements: mass concentrations (top graph), molar concentrations (middle graph), and mole fractions of total CEs (bottom graph). However, individual average concentration measurements of PCE, TCE, DCE, and VC are shown as sets of vertical bars for each location, rather than points arranged vertically, as was done previously. Also, as previously, the total CE molar concentration (sum of the average molar values) at each location is shown by a line connecting these values. However, unlike previously, total CE values are separated into two sets representing on-site and off-site values. The total CE lines form an "envelope" over related sets of values.

Several observations based on the values displayed in Figure 6, and the conclusions that these observations support, are discussed below:

- Related sets of measurements are internally consistent.
  - Concentrations of CEs measured at both depths in new well pair MW-4 are similar to, but less than, similar measurements in MW-2 and MW-3.
    - This result indicates that the original PCE in on-site soil generally did not migrate from the point of original release, as MW-4 is directly downgradient from the area of remediation.
  - Concentrations of all four CEs at both depths are similar in new well pairs MW-5 and MW-6.
    - Concentrations in MW-5 and MW-6 are similar to, but often less than, the concentrations measured by DPT 5 and DPT 6. This may be due to the new wells sampling over a greater depth interval than the DPT probes, resulting in dilution of a focused source.
- Off-site concentrations of CEs are consistently greater than on-site CE concentrations. This is true for total CE concentrations, and generally for all four individual CE concentrations, and in samples from both shallow and deep depths.
  - Average total CE concentration in off-site shallow wells (MW-5 and MW-6) is about 420% greater than the same average in on-site shallow wells (MW-1 through MW-4).

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- Average total CE concentration in off-site deep wells is about 210% greater than the same average in on-site deep wells.
    - These results are not possible if the only source of CEs to the downgradient wells is the past PCE release and dechlorination products on the Brenntag site. Even if a significant source remains on-site (unlikely given the apparent effectiveness of the remediation), transport downgradient would result in dilution as groundwater blends with off-site water. Thus, downgradient concentrations would be less than on-site concentrations, not as much as four times greater.
    - The most plausible explanation for the high total CE concentrations in downgradient wells is that a source of these compounds is located off-site and near the wells.

- PCE is found in both on-site and off-site shallow wells, but not deep wells.
    - This result indicates that PCE in surface soils undergoes limited vertical migration, but rather remains near the point of release.
        - The conclusion from this result is that the PCE observed in MW-5 and MW-6 shallow wells is from a source that is near these wells and distinct from any upgradient source.

- Average PCE concentration in the shallow downgradient wells is 150% greater than the same average in on-site shallow wells with measureable PCE concentrations (MW-2S, MW-3S, and MW-4)
    - As with total CE concentrations, this result is not possible unless an as yet unidentified source of PCE is near MW-5S and MW-6S.
    - This conclusion is further supported by the evidence presented that PCE is undergoing reductive dechlorination.

- Mole fractions of CEs in shallow wells are similar in both upgradient and downgradient wells that are near a source (or presumed source) of PCE.
    - MW-2S, MW-3S, and MW-4S contain similar fractions of PCE, TCE, and DCE.
    - MW-5S and MW-6S also show a mixture of PCE, TCE, and DCE, although will lesser amounts of PCE. Also, MW-6S has a small fraction of VC.
        - One conclusion from these relative molar quantities is that reductive dechlorination is degrading PCE to form TCE and DCE in both upgradient

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and downgradient wells and reductive dechlorination may be most effective near MW-6S, as VC is measureable in this well.

- Mole fractions of CEs in deep wells are similar in both upgradient and downgradient wells.
  - Deep wells in both locations are dominated by DCE with lesser amounts of TCE, and the relative proportions of these two compounds are very similar in all deep wells.
    - One explanation for this result is that deep wells sample relatively uniform groundwater that contains TCE from a number of regional sources and DCE produced by dechlorination of this TCE.

Geochemical Parameters Affecting Reductive Dechlorination

The appearance both on- and off-site of compounds that are products of the reductive dechlorination of PCE and TCE, specifically DCE and VC, provides strong evidence that reductive dechlorination is degrading residual on-site PCE and TCE found in regional groundwater. Other geochemical parameters may provide supporting evidence that reductive dechlorination is possible and ongoing in the local environment.

As implied by the name, reductive dechlorination of CEs involves chemical reduction reactions, and as such, is most likely to occur in environments that favor these reactions (known generally as reducing environments). In a manner analogous to mechanisms that set the prevailing pH, the prevailing oxidation-reduction potential (ORP) of an environmental compartment (such as local groundwater) is set by the chemistry of several major environmental constituents. For example, in aquatic systems, dissolved oxygen (DO) is a major environmental constituent, and knowledge of the concentration of DO in local groundwater is often sufficient to predict the prevailing ORP level; high levels of DO help create an oxidizing environment (high ORP value), while low DO levels often result in a reducing environment (low ORP value). Once set by major constituents, the chemistry of minor constituents is constrained by the prevailing ORP level. Therefore, it follows that reductive dechlorination of CEs is most probable in low oxygen environments, and knowledge of DO levels in groundwater will help predict whether reductive dechlorination of these minor constituents can occur in a specific local groundwater.

The above chemical concepts have been generalized so that the probability of reductive dechlorination of CEs in a specific local environment may be assessed through measurements of common aquatic parameters. A generally accepted approach for this type of site characterization is provided by the US Environmental Protection Agency (EPA) in *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (EPA, 1998) (EPA NA Guidance). Several of the most relevant predictive parameters are discussed below, and measured values of these parameters in on- and off-site long-term and new well pairs are shown in Table 3 (new well pair MW-4

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is not included in this assessment). It is important to note that the EPA NA Guidance focuses on parameters and levels of these parameters that most affect reductive dechlorination due to biological activity; several of the parameters may facilitate abiotic reductive dechlorination. Of the parameters examined below, oxygen at high levels has the greatest potential to completely inhibit biotic and abiotic reductive dechlorination.

The discussion below is based on information from the EPA NA Guidance. In each case, relevant groundwater parameters are listed, levels that are conducive to reductive dechlorination are shown, and these levels are compared to measured values in the on- and off-site long-term and new wells pairs, as presented in Table 3.

- Dissolved Oxygen (DO) – <0.5 milligram per liter (mg/L). All measured values meet this criterion except in MW-2S (0.77) and MW-3S (0.78). The EPA NA Guidance states that reductive dechlorination is not possible at DO levels above 5 mg/L. Therefore the slight exceedances at these two wells would not inhibit reductive dechlorination. Rather, the low DO levels in all wells provide conditions that are very conducive to reductive dechlorination.

- Nitrate – <1 mg/L. All deep wells meet his criterion. All shallow wells, except MW-6S, exceed this value. However, unlike high levels of DO, nitrate will not inhibit reductive dechlorination. Instead, nitrate may compete with CEs as an electron acceptor, potentially directing the flow of electrons away from CE dechlorination. Though not shown in Table 3 (and not part of the EPA NA Guidance), nitrite was not detected in any of the well pairs. Reduction of nitrate would produce nitrite; lack of nitrite suggests nitrate reduction is not occurring. Overall, elevated nitrate levels may affect the occurrence and rate of reductive dechlorination of CEs in surface wells except MW-6S, but deep wells are not affected in this way.

- Ferrous Iron – >1 mg/L. All wells, except MW-6S, are below this value. The appearance of ferrous iron in groundwater samples indicates that strong reducing conditions are present, but the lack of ferrous iron does not preclude reductive dechlorination of CEs. Therefore, this parameter has a minor affect on the assessment of reductive dechlorination of CEs. However, if ferrous iron is present at elevated levels, reductive dechlorination of all CEs including VC is strongly indicated.

- Sulfate – <20 mg/L. Sulfate is very prevalent in local groundwater, and all wells have levels in excess of 20 mg/L. However, like nitrate, the presence of sulfate does not inhibit reductive dechlorination of CEs, but may slow this process by providing an alternate electron acceptor for biological processes. In practice, reductive dechlorination of CEs has been reported at many sites with elevated groundwater sulfate.

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- Sulfide – >1 mg/L. None of the wells shown in Table 3 have measureable sulfide concentrations. Like ferrous iron, the appearance of sulfide in groundwater samples indicates that very strong reducing conditions are present, but lack of sulfide does not preclude reductive dechlorination. However, lack of sulfide does indicate that sulfate reduction is minimal, suggesting that sulfate is not competing as an electron acceptor. Together with the above sulfate results, these two indicators provide limited information regarding the occurrence of reductive dechlorination.

- Methane – >0.5 mg/L. Methane is the ultimate product of the reduction of carbon, and its appearance in groundwater indicates very strong reducing conditions; however, methane concentrations were below this level. As with ferrous iron and sulfide, lack of methane does not preclude reductive dechlorination of CEs.

- Oxidation-Reduction Potential (ORP) – <50 mV. ORP measurements have significant uncertainty and, with the exception of MW-2S, all measured values in Table 3 are essentially at or below 50 mV, and ORP measurements would therefore indicate that reductive dechlorination is possible in local groundwater. It is noteworthy that the lowest ORP value was measured in MW-6S. As noted above, other parameters also indicate that reductive dechlorination is very likely occurring at MW-6S.

- pH – 5<pH<9. All wells are within the indicated range, and so support reductive dechlorination based on this parameter.

- Total Organic Carbon (TOC) – >20 mg/L. Although TOC is present in all wells, measured values are all less than 20 mg/L. Biotic reductive dechlorination of CEs requires a carbon source for natural microbes. While low levels do not preclude reductive dechlorination, microbes responsible for this process may be limited by low levels of TOC. Therefore, TOC levels in local groundwater suggest that reductive dechlorination may be occurring, but at a reduced rate.

- Temperature – >20° C. Biological activity, as well as solubility of organic compounds, generally increases with temperature. All wells are near the indicated temperature, so local groundwater temperature will not inhibit reductive dechlorination.

Taken together, the above geochemical parameters and the results for the wells shown in Table 3 provide “limited” evidence for wells MW-2S and MW-3S, “strong” evidence for MW-6S, and “adequate” evidence for all other wells for on-going reductive dechlorination, based on geochemical parameters. The descriptive terms are taken from the EPA NA Guidance, and used here in a qualitative manner.

It is important to note that the most evidence for on-going reductive dechlorination, based on geochemical parameters, is provided by samples collected from MW-6S. This off-site

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well also has elevated PCE concentrations, relative to on-site wells. PCE is the most readily dechlorinated CE, and given the geochemical conditions observed in groundwater from MW-6S, PCE dechlorination is highly probable in this groundwater. Thus, the persistent appearance of PCE in this well strongly indicates that a nearby source of PCE is present.

Compound Specific Isotope Analysis of On-Site and Off-Site Chlorinated Ethenes

Chemical elements are composed of atoms, and the atoms of each element have a fixed number of protons (for example, hydrogen has one, carbon has six, and chlorine has 17 protons). The nuclei of atoms also contain neutrons, and the number of neutrons may be different in different atoms of the same element. Atoms with the same number of protons but different numbers of neutrons are known as isotopes. Some isotopes undergo radioactive decay and become other elements. Isotopes that do not decay are referred to as stable isotopes.

Carbon (atomic symbol "C") has two naturally occurring stable isotopes with six and seven neutrons, respectively. Isotopes are named by the sum of their protons and neutrons (their approximate atomic weight) placed as a superscript preceding their atomic symbol; natural stable carbon isotopes are identified as ^{12}C and ^{13}C.

The amount of each isotope in nature varies among the different elements, but the global proportions of the stable isotopes of each element are essentially constant. For example, ^{12}C and ^{13}C are found in a ratio of about 99:1, respectively.

Atoms combine to form molecules. When several isotopes of a particular atom exist, the isotopic forms will combine to form molecules of the same substance that contain the different isotopes in approximate proportion to their natural abundance. Thus, if elemental carbon combines with hydrogen to form methane (CH_4), approximately 99 $^{12}CH_4$ molecules will be formed for every 1 $^{13}CH_4$ molecule.

When molecules containing atoms present as multiple isotopes chemically react to form new molecules, the same new molecules (the same new chemical substance) will be formed regardless of which isotope is in each molecule (isotopes of an element behave in a chemically similar manner). However, the new molecules may contain slightly different ratios of the isotopes. For example, if 10% of the methane in a volume containing 9900 $^{12}CH_4$ molecules and 100 $^{13}CH_4$ molecules (^{12}C to ^{13}C ratio of 99:1) react to form 1000 ethane molecules (CH_3-CH_3), only ethane will be formed, but there may be 991 ^{12}CH3-CH_3 ethane molecules and only 9 ^{13}CH3-CH_3 ethane molecules (the ratio of ^{12}C to ^{13}C in the product ethane is now 99.1:0.9). As this mixture of ethane molecules participates in additional chemical reactions, the products of those reactions will not differ because of the presence of the two carbon isotopes, but the ratios of the isotopes may continue to change between reactants and products. This process is known as isotope fractionation.

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The ethane in the above example might be used as a feed stock for the production of CEs, perhaps via an ethene intermediate. As these reactions proceed, slight changes in the ^{12}C to ^{13}C ratio will occur, such that the CE products (PCE, TCE, DCE, or VC) will have distinct and fixed ^{12}C to ^{13}C ratios that are different from but related to the original ethane. If a new ethane feed stock is used to produce a new lot of CEs, the new CE products will have new ^{12}C to ^{13}C ratios related to the new feed stock, and possibly different from the original lot of CEs. The difference in isotopic ratios among various commercial supplies of CEs provides a potential means of identifying different sources of these compounds if they are released into the environment.

Changes in isotopic ratios between reactants and products in chemical reactions are not limited to industrial reactions, but are also commonly observed in environmental reactions. Specifically, the reductive dechlorination reaction that forms TCE from PCE is known to proceed such that ^{12}C-PCE molecules dechlorinate to a slightly greater extent than do ^{13}C-PCE molecules. The net effect of this isotopic fractionation leaves unreacted PCE slightly enriched in ^{13}C-PCE molecules. Thus, measuring isotopic fractionation in samples taken from an environmental release of PCE may help identify on-going reductive dechlorination of this compound. This is also possible with less-chlorinated CEs.

Isotopic ratios may be measured using an isotope ratio mass spectrometer (IRMS). This analytical capability has been available for decades for relatively pure bulk substances. In the last several decades, the ability of gas chromatographs to separate the components of complex mixtures has been combined with identification by IRMS, such that the isotope ratios of individual organic compounds in the original mixture may be measured. Most recently, through development of sample extraction and enrichment techniques, isotope ratios of compounds present in mixtures at very low concentrations, such as CEs in water samples, may now be accurately measured. This hybrid analytical methodology is referred to as Compound Specific Isotope Analysis (CSIA).

CSIA is currently transitioning from a research tool to a more broadly applied technology. Guidance on the implementation and use of CSIA techniques in field investigations of organic compounds in groundwater is provided by the EPA in *A Guide for Assessing Biodegradation and Source Identification of Organic Ground Water Contaminants using Compound Specific Isotope Analysis (CSIA)* (EPA, 2008). While research and application of CSIA of carbon isotopes has the longest history, CSIA techniques using isotopes of hydrogen, nitrogen, oxygen, and chlorine are also advancing as applied methodologies.

Isotope ratios of light elements are often small numbers (^{13}C:^{12}C is about 0.01). Isotope fractionation produces small changes in these already small values, and direct, or absolute, comparison of measured values using subtraction produces very small numbers (~0.0001). Also, comparison of isotope absolute ratios measured in a set of arbitrary materials produces values that may be useful in a particular study, but these values cannot be compared in a meaningful way with values generated by other unrelated studies. To

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circumvent these challenges, isotope ratio analytical results are most often reported in relative, rather than absolute terms, through comparisons to international standards, as shown for carbon by the following equation:

$$\delta^{13}C = \left[\frac{\left({}^{13}C/{}^{12}C \right)_{SAMPLE} - \left({}^{13}C/{}^{12}C \right)_{STANDARD}}{\left({}^{13}C/{}^{12}C \right)_{STANDARD}} \right] \times 1000 \qquad (1)$$

The reported isotope ratio, $\delta^{13}C$, is pronounced "delta carbon 13" and is in units of parts per thousand (‰), or "per mill." The international standard for ^{13}C is Vienna - PeeDee Belemnite reference standard (VPDB). Because this standard has one of the highest $^{13}C/^{12}C$ ratios of common natural materials, most reported $\delta^{13}C$ values are negative (Equation 1).

While measured isotope ratios are reported in delta units, as shown by Equation 1, a common concern in stable isotope investigations is the relationship between isotope ratios of a particular element in two or more environmental samples. For example, carbon isotope ratios might be examined in a source area of a CE and also in a downgradient plume from the source for evidence of biodegradation. Alternatively, isotope ratios in samples collected over time from a fixed location might also be compared for changes indicating biodegradation. Changes in ratios in the various samples may be due to isotope fractionation, as defined above, and a calculated value known as the stable isotope fractionation factor (α) is used to express the magnitude of fractionation that is observed in related samples. Equation 2 defines the stable isotope fractionation factor:

$$\alpha = R_a / R_b = \left(1000 + \delta^{13}C_a\right) / \left(1000 + \delta^{13}C_b\right) \qquad (2)$$

where R is the stable isotope ratio (for carbon, this is $^{13}C/^{12}C$) measured in two environmental samples, *a* and *b*. The remainder of Equation 2 demonstrates that R may be directly calculated from isotope ratio results as reported by an analytical laboratory (delta values). While carbon (C) is used in Equations 1 and 2 as an example, these equations are applicable to all stable isotope analyses.

The stable isotope fractionation factor, α, is often converted into a related value, the stable isotope enrichment factor, ε, as shown by Equation 3:

$$\varepsilon = (\alpha - 1) \times 1000 \qquad (3)$$

As discussed above, variation in isotope ratios among different production lots of CEs may be useful in field studies as a way to determine the source of a particular environmental release of a CE. Also, evidence for the occurrence and extent of reductive dechlorination of CEs may be provided by changes in isotope ratios of a specific CE measured at different locations and times. While most field investigations to date have

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used stable carbon isotope ratios to make these determinations, there is an increasing awareness of the value in using more than one pair of stable isotopes to identify sources or quantify reductive dechlorination. Monitoring simultaneous changes in two pairs of stable isotopes is known as two-dimensional CSIA (2D-CSIA).

Chlorine stable isotopes ^{35}Cl and ^{37}Cl provide a useful second stable isotope pair when evaluating CEs in field investigations. Chlorine stable isotopes behave as do other stable isotope pairs, such as those of carbon. Thus, the initial ratios of chlorine isotopes (the initial value $\delta^{37}Cl$) in CE products will be set by the ratio of these isotopes in the reactants (feed stock) that forms the CE products. Also, for single-step reductive dechlorinations, such as PCE dechlorinating to form TCE, the lighter PCE molecules (those containing more ^{35}Cl) will dechlorinate at a faster rate. This rate difference will cause the remaining unreacted PCE to become increasingly enriched in ^{37}Cl, while the TCE product will contain more ^{35}Cl. In delta terms, $\delta^{37}Cl$ will increase in the PCE reactant and decrease (relative to the initial value in PCE) in the TCE product.

Unlike the stable isotopes of carbon, the stable isotopes of chlorine are found in nature in roughly similar quantities; the global ratio of ^{35}Cl to ^{37}Cl is about three to one. The much greater relative abundance of ^{37}Cl implies that a given polychlorinated ethene molecule (PCE, TCE, and DCE) has a high probability of containing more than one ^{37}Cl chlorine. Molecules that are identical except for isotopic substitutions of specific atoms are known as isotopologues. Hence, a given quantity of a polychlorinated ethene may consist of a mixture of chlorine isotopologues. This has practical implications for isotope ratios that evolve as a result of multiple dechlorinations, such as those that occur in the PCE to TCE to DCE sequence. Specifically, as noted above, the initial dechlorination (PCE to TCE) will result in higher (more positive) values of $\delta^{37}Cl$ in the unreacted PCE and lower values of $\delta^{37}Cl$ in the TCE product. However, because of the possibility of multiple isotopologues, changes in $\delta^{37}Cl$ as this TCE dechlorinates to form DCE are more difficult to predict. Hunkeler et al. (2009) provide a thorough discussion of this phenomenon.

Multiple carbon isotopologues of individual CEs are of little concern with respect to isotope ratios. This is because ethenes contain only two carbon atoms, and the relatively low abundance of ^{13}C implies there is little chance of both carbon atoms in one molecule being ^{13}C (probability of about 1 in 10,000). Therefore, progressive dechlorination of PCE to TCE to DCE to VC, and finally ethene initially proceeds as expected with respect to carbon isotope ratios; dechlorinating reactants have higher $\delta^{13}C$ values, while dechlorinated products have lower $\delta^{13}C$ values. However, as dechlorination proceeds, products like TCE become reactants for continuing dechlorination reactions, and isotope fractionation implies that the lowest values of $\delta^{13}C$ are observed only in the newest TCE. As TCE goes on to produce DCE, $\delta^{13}C$ in the remaining TCE will increase. This is also true for all subsequent dechlorination products that then become reactants. Interpretation of isotope ratios measured in environmental samples must consider the evolution in time of these ratios due to ongoing isotope fractionation.

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Interpretation of the source of an environmental release of CEs is aided by knowledge of the range of isotope ratios that occur in original commercial CE products. These ranges have been determined by multiple researchers and gathered into a single list by EPA (2008). The range of isotope ratios (‰) in CE products (and the number of products analyzed for $\delta^{13}C$ and $\delta^{37}Cl$, respectively), taken from this reference, is shown below:

- PCE (11 and 10)
  - $\delta^{13}C$ – -37 to -24, mean -29.
  - $\delta^{37}Cl$ – -2.7 to 1.1, mean -0.5.
- TCE (13 and 11)
  - $\delta^{13}C$ – -34 to -23, mean -29.
  - $\delta^{37}Cl$ – -3.2 to 4.0, mean 1.0.
- DCE (6 and 1)
  - $\delta^{13}C$ – -29 to -22, mean -26.
  - $\delta^{37}Cl$ – 0.5.

As part of the April and June 2011 sampling events, samples for carbon and chlorine isotope analysis were collected from shallow and deep depths in well pairs MW-3 (on-site), and MW-5 and MW-6 (off-site). Also, samples for isotope analysis were collected from both depths of well pair MW-1 during the September 2011 sampling event. Isotope analysis was performed by Zymax Forensics Isotope Laboratory in Escondido, CA. Results of these analyses are shown in Tables 4a (April), 4b (June), and 4c (September). Note that isotope analyses are consistent with previous chemical analyses of CE in groundwater from the well pairs, in that PCE is only detected in shallow wells and not present in MW-1 samples, while TCE and DCE are detected in both shallow and deep wells.

As with all chemical analyses, the values reported in Tables 4a, 4b, and 4c have finite analytical precision that is quantified through analysis of Quality Control (QC) samples. The standard deviation (σ) of these measurements is provided in these tables and analytical precision of isotope measurements is equal to $\pm 2\sigma$. Thus, values in the tables should differ by about 2‰ to be considered significantly different (this value increases to about 3‰ for CEs present at low concentration). This level of analytical precision is reasonable for this type of measurement (EPA, 2008).

Comparison of the isotope ratios is facilitated by graphical analysis; values in Tables 4a, 4b, and 4c are displayed in two graphs shown in Figure 7. Each graph displays a sample result (or the average of two sampling events) by taking the $\delta^{13}C$ value as an x-coordinate and the $\delta^{37}Cl$ value as a y-coordinate to create a single point on the graph that indicates these ratios for that sample or average value. The top graph in Figure 7 shows all measured sample results for the April and June 2011 sampling events. Graph symbols are selected to indicate the identity of measured CEs (color), well pair number (shape), and sample depth (closed-deep; open-shallow). Note that the April and June sampling events are not identified on the top graph, but are visible by the presence of pairs of identical symbols (in some cases, a CE isotope ratio could not be measured in both

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samples). Generally, results from the April and June sampling events are not significantly different (in fact, the two results for PCE in MW-3 Shallow are identical and plot on top off one another). For this reason, the average results of the two events are shown in the bottom graph in Figure 7, along with the three pairs of isotope measurements that were obtained from the sample collected in September from well pair MW-1.

The history of CEs in groundwater under and near the Brenntag site is complex. Specifically, a past release of PCE on-site has since been removed, and evidence indicates another off-site source of PCE is still active. Residual PCE on-site, and PCE from the presumed off-site source, are being degraded by reductive dechlorination that sequentially produces TCE, DCE, and VC. However, evidence indicates that TCE, and particularly DCE, from a regional background supply are also contributing to the observed levels of these CEs in groundwater. Moreover, the contribution of TCE and DCE from the regional background may be comparable to that created by local PCE dechlorination.

Despite the complex history of CEs in groundwater in the vicinity of the Brenntag site, the isotope ratios measured in PCE, TCE, and DCE, and shown in Figure 4, provide evidence that the description given above accurately reflects the ongoing fate and transport of CEs in groundwater under and near the Brenntag property. Based on the discussion of the chemistry of stable isotopes in CEs provided above, the following explanation of the patterns of isotope ratios shown in Figure 4 is presented:

- The $\delta^{13}C$ and $\delta^{37}Cl$ values measured in DCE indicate that these compounds arise almost exclusively from a single step dechlorination of regional background TCE, rather than from a multi-step dechlorination of minor local PCE sources.
    - The ratios of both isotopes are less than measured values in commercial DCE products. Therefore, there is no significant source of commercial DCE product (such as an environmental release) in the region around and including the Brenntag site.
    - Comparison of the isotope ratios observed in DCE to those in TCE and PCE indicates that essentially only dechlorination of regional TCE, rather than TCE created by dechlorination of local PCE, contributes to the DCE in regional groundwater. This is not to say that local PCE does not dechlorinate to TCE that then dechlorinates to form DCE. Rather, the observed isotope ratios strongly indicated that regional background TCE is the dominant material that dechlorinates to form DCE. Any contribution from local PCE sequential dechlorination is insignificant and an isotope signal from DCE molecules formed from PCE dechlorination is lost due to dilution by single-step dechlorination of TCE.

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- The $\delta^{13}C$ value measured in the one DCE sample from MW-1 Deep is significantly different from values measured in other wells, although the $\delta^{37}Cl$ value of this sample is the same as all other DCE samples. The reason for this difference is unclear and this result should be confirmed before conclusions are drawn from a single result.

- The $\delta^{13}C$ and $\delta^{37}Cl$ values measured in TCE clearly indicate that almost all of the TCE in groundwater samples entered the groundwater as commercial TCE materials. Any contribution to TCE due to dechlorination of local PCE must be small relative to that from regional TCE sources.

  - The $\delta^{13}C$ and $\delta^{37}Cl$ values measured in TCE are within, but at the high end of the range of values reported for commercial TCE materials. This is the expected pattern for commercial TCE materials from multiple commercial sources that are dechlorinating to form DCE.

  - There is no evidence of observed TCE being formed from local PCE sources, as $\delta^{13}C$ and $\delta^{37}Cl$ values in local PCE samples are less than those in TCE samples. This pattern cannot occur if TCE arises from dechlorination of local PCE. Again, this is not to suggest that local PCE does not dechlorinate to form TCE, only that TCE molecules formed in this way are very few relative to those from commercial materials. Any isotope signal from TCE formed by dechlorination of local PCE is invisible due to dilution from commercial TCE materials.
    - Based on isotope ratios, the TCE detected in MW-1S is identical to all other TCE samples. However, as with DCE, the TCE from MW-1 Deep has a higher $\delta^{13}C$ value, but identical $\delta^{37}Cl$ value, relative to all other TCE samples. Again, this result should be confirmed before conclusions are made.

- The $\delta^{13}C$ and $\delta^{37}Cl$ values measured in PCE do not show significant differences among the on-site (MW-3) and off-site (MW-5 and MW-6) wells.

  - Other lines of evidence have indicated that the residual on-site PCE cannot serve as a source for the active PCE source near the off-site wells.

  - The lack of distinct isotope patterns between on- and off-site PCE does not provide evidence that these releases arise from a common source. A more plausible explanation is that two releases of PCE occurred, and in each case, a similar commercial material was released.

  - This is not an uncommon occurrence, as noted by the EPA guidance:

    - "It is also possible that different spill events in different locations can have the same isotopic composition."

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Conclusions

A conceptual model of CEs in groundwater under and near the Brenntag site includes the following elements:

- The past on-site release of PCE has been effectively remediated.
- Residual on-site PCE is being degraded by reductive dechlorination.
- Reductive dechlorination is also degrading TCE formed from on-site PCE.
- A regional background of DCE and VC are becoming the dominant CEs under and around the Brenntag site.
- Current levels of DCE and VC in on-site groundwater will not significantly decrease until the regional background of these CEs is eliminated.
- Occurrence of PCE in off-site wells represents a distinct source near these wells and is unrelated to the past on-site PCE release.

This memorandum has presented evidence based on measured mass concentrations, molar concentrations, mole ratios, prevailing groundwater chemistry, and stable isotope analysis that supports all elements of the conceptual model.

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References

USEPA, 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*. EPA/600/R-98/128. September 1998.

USEPA, 2008. *A Guide for Assessing Biodegradation and Source Identification of Organic Ground Water Contaminants using Compound Specific Isotope Analysis (CSIA)*. EPA/600/R-08/148. December 2008.

Hunkeler, D.; Van Breukelen, B. M.; Elsner, M. (2009) "Modeling Chlorine Isotope Trends during Sequential Transformation of Chlorinated Ethenes." *Environ. Sci. Technol.* 43: 6750–6756.

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Tables

Table 1
Statistical Analysis of Quarterly Measurements of Four Chlorinated Ethenes In Three Shallow and Deep Well Pairs

Chlorinated Ethene	n	Average	Median	Minimum	Maximum
			Micrograms per Liter		
Shallow Wells					
Tetrachloroethene (PCE)	30	18.4	15.4	3.8	103.0
Trichloroethene (TCE)	31	6.0	4.4	1.0	16.8
cis-1,2-Dichloroethene (DCE)	28	6.0	2.7	1.0	53.0
Monochloroethene (VC)	0				
Deep Wells					
Tetrachloroethene (PCE)	4	3.2	2.8	1.2	6.0
Trichloroethene (TCE)	41	4.8	3.7	1.1	15.1
cis-1,2-Dichloroethene (DCE)	45	36.9	31.1	9.1	113.0
Monochloroethene (VC)	17	1.7	1.6	1.0	2.9
All Wells					
Tetrachloroethene (PCE)	34	16.6	13.3	1.2	103.0
Trichloroethene (TCE)	72	5.3	4.0	1.0	16.8
cis-1,2-Dichloroethene (DCE)	73	25.0	15.6	1.0	113.0
Monochloroethene (VC)	17	1.7	1.6	1.0	2.9

Note:
Statistics include only detected values.
Blank cells indicate parameter was not detected.

Prepared by: JBM
Checked by: RMK

Table 2
Concentration of Four Chlorinated Ethenes
Average and Median Values in Long-Term Wells and Average Values in Three New Wells

Chlorinated Ethene	Long-Term On-Site n	Long-Term On-Site Average[1]	Long-Term On-Site Median[1]	On-Site Average[2] MW-4	Off-Site Average[2] MW-5	Off-Site Average[2] MW-6
		Micrograms per Liter				
Shallow Wells						
Tetrachloroethene (PCE)	30	18.4	15.4	4.7	19.4	18.1
Trichloroethene (TCE)	31	6.0	4.4	1.5	23.5	14.5
cis-1,2-Dichloroethene (DCE)	28	6.0	2.7	4.4	18.8	27.1
Monochloroethene (VC)	0					2.9
Deep Wells						
Tetrachloroethene (PCE)	4	3.2	2.8			
Trichloroethene (TCE)	41	4.8	3.7	2.8	13.3	16.9
cis-1,2-Dichloroethene (DCE)	45	36.9	31.1	29.0	45.4	82.4
Monochloroethene (VC)	17	1.7	1.6	1.0	1.3	1.8

Note:
Statistics include only detected values.
Blank cells indicate parameter was not detected.
[1] Average and median are calculated for n values over numerous sampling events.
[2] Average values calculated for detected values over three sampling events.

Prepared by: JBM
Checked by: RMK

Table 3
Groundwater Parameters for Assessing Occurrence of Reductive Dechlorination of Chlorinated Ethenes

Groundwater Parameter	Well Pair and Sampling Date				
	MW-1 8/29/2008	**MW-2** 8/29/2008	**MW-3** 4/4/2011	**MW-5** 4/4/2011	**MW-6** 4/4/2011
Shallow Wells					
DO	0.17	0.77	0.78	0.42	0.43
Nitrate	6.8[1]	13.8[1]	6.5	8.3	0.84
Ferrous Iron	0.0	0.0	0.09	0.12	2.9
Sulfate	116	132	156	176	155
Sulfide	< 0.50	< 0.50	<1.0[1]	<1.0[1]	<1.0[1]
Methane	ND	ND	0.00069	0.00087	0.375
ORP[2] (mV)	9.6	109.4	65.5	57.7	-87.4
pH (SU)	6.95	6.77	6.99	6.96	6.84
Total Organic Carbon	1.6	2.0	1.2	2	3.2
Temperature (°C)	18.9	19.6	16.61	17.19	17.64
Deep Wells					
DO	0.18	0.18	0.47	0.44	0.31
Nitrate	< 1.0[1]	< 1.0[1]	0.57	0.33	<0.20
Ferrous Iron	0.0	0.0	0.09	0.13	0.2
Sulfate	190	196	229	186	212
Sulfide	< 0.50	< 0.50	<1.0[1]	<1.0[1]	<1.0[1]
Methane	0.0152	0.0182	0.0132	0.00631	0.0106
ORP[1] (mV)	62.2	65.9	15.6	43.1	-10.5
pH (SU)	6.93	6.86	6.97	6.89	6.95
Total Organic Carbon	3.2	2.8	2.5	2.3	2
Temperature (°C)	18.3	18.48	17.79	18.18	18.23

Notes:

[1] Samples exceeded hold time

[2] ORP - Oxidation-Reduction Potential

ND - Not detected

Unless otherwise noted, all units are milligrams per liter

Prepared by: JBM

Checked by: RMK

Table 4a
Stable Isotope Ratios of Chlorinated Ethenes
Measured in Shallow and Deep Well Pairs Q1-2011

Stable Isotope Ratio	Chlorinated Ethene	Precision (1σ)	On-Site MW-3	Off-Site MW-5	Off-Site MW-6
			Shallow Wells		
$\delta^{13}C$	DCE	0.5	-31.6[a]	-30.8	-30.2
	TCE	0.5	-25.1[a]	-25.7	-22.6
	PCE	0.5	-27.4[a]	-26.9	-26
$\delta^{37}Cl$	DCE	0.5	-2.7[a]	-1.9	-2.7
	TCE	0.5	3.5[a]	3.2	3.2
	PCE	0.4	2.5	2.5	2.5
			Deep Wells		
$\delta^{13}C$	DCE	0.5	-29.1	-31.7	-31.7
	TCE	0.5	-23.1[a]	-24.8	-22.8
	PCE	0.5	n/a	n/a	n/a
$\delta^{37}Cl$	DCE	0.5	-2.1	-2.5	-2.4
	TCE	0.5	3.6[a]	3.4	3.2
	PCE	0.4	n/a	n/a	n/a

Prepared by: JBM
Checked by: RMK

Notes:
All values have units of parts per thousand (‰).
n/a - Value not measured due to low concentration
[a] Estimated value at low concentration (Uncertainty=3σ)

Table 4b
Stable Isotope Ratios of Chlorinated Ethenes
Measured in Shallow and Deep Well Pairs Q2-2011

Stable Isotope Ratio	Chlorinated Ethene	Precision (1σ)	On-Site MW-3	Off-Site MW-5	Off-Site MW-6
			Shallow Wells		
$\delta^{13}C$	DCE	0.6	-30.3[a]	-29.6[a]	-28.6
	TCE	0.5	-27.9[a]	-26.6	-26.7
	PCE	0.5	-27.4	-27.1	-26.4
$\delta^{37}Cl$	DCE	0.4	-2.6[a]	-2.1	-2.5
	TCE	0.4	n/a	3.2	3.2
	PCE	0.4	2.5[a]	2.5	2.5
			Deep Wells		
$\delta^{13}C$	DCE	0.6	-29.4	-30.5	-30.6
	TCE	0.5	-22.7[a]	-24.1	-24.5
	PCE	0.5	n/a	n/a	n/a
$\delta^{37}Cl$	DCE	0.4	-2	-2.5	-2.3
	TCE	0.4	n/a	3.3	3.2
	PCE	0.4	n/a	n/a	n/a

Prepared by: JBM
Checked by: RMK

Notes:
All values have units of parts per thousand (‰).
n/a - Value not measured due to low concentration
[a] Estimated value at low concentration (Uncertainty=3σ)

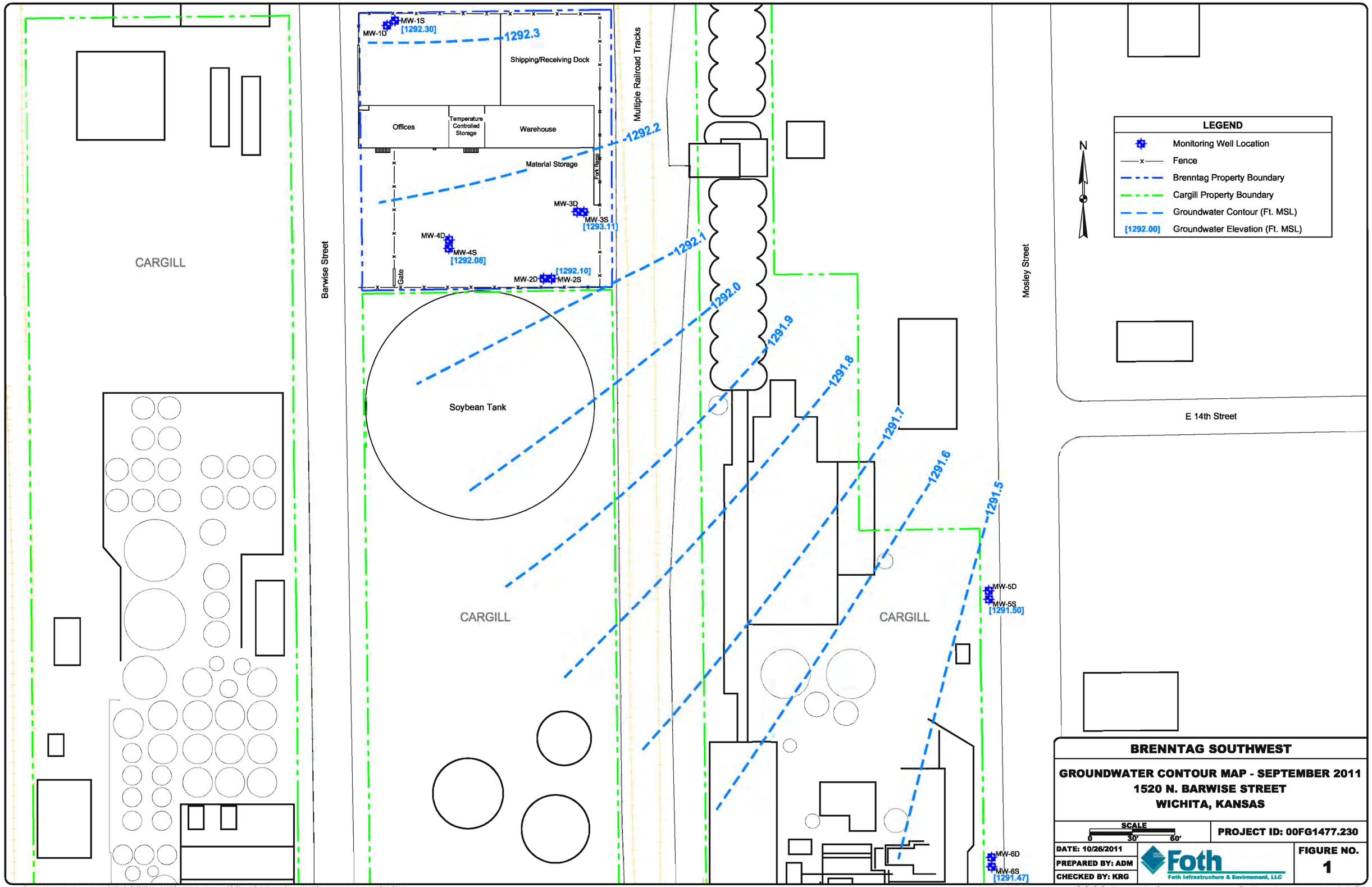
Table 4c
Stable Isotope Ratios of Chlorinated Ethenes
Measured in Shallow and Deep Well Pairs Q3-2011

Stable Isotope Ratio	Chlorinated Ethene	Precision (1σ)	On-Site MW-1
			Shallow Well
	DCE	0.5	n/a
$\delta^{13}C$	TCE	0.4	-27.8[a]
	PCE	0.6	n/a
	DCE	0.6	n/a
$\delta^{37}Cl$	TCE	0.4	3.1[a]
	PCE	0.3	
			Deep Well
	DCE	0.5	-24
$\delta^{13}C$	TCE	0.4	-17.5[a]
	PCE	0.6	n/a
	DCE	0.6	-1.5
$\delta^{37}Cl$	TCE	0.4	3.6[a]
	PCE	0.3	n/a

Prepared by: JBM
Checked by: RMK

Notes:
All values have units of parts per thousand (‰).
n/a - Value not measured due to low concentration
[a] Estimated value at low concentration (Uncertainty=3σ)

Figures



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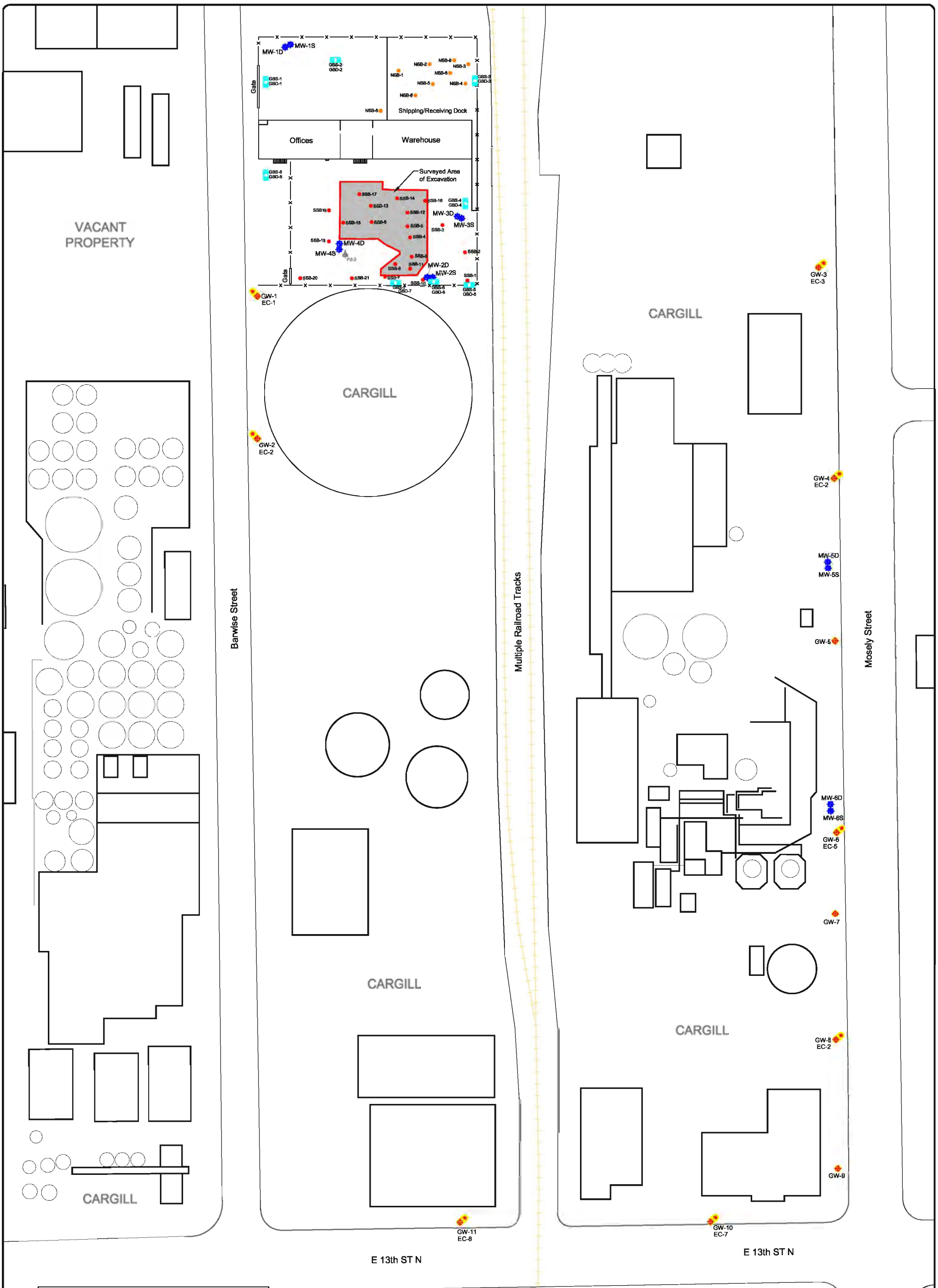

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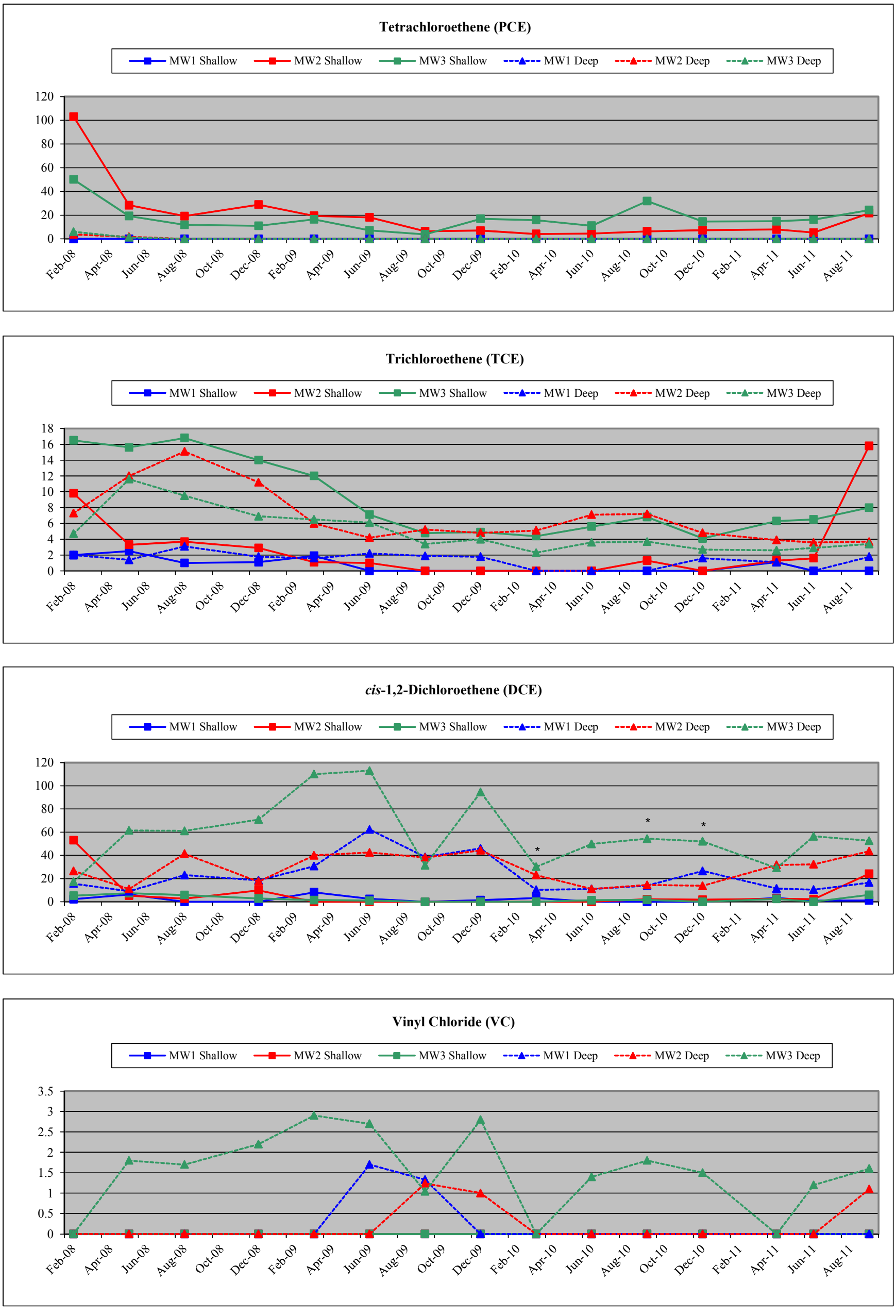

Graphs show measured concentrations in groundwater of four chlorinated ethenes. Each graph displays measurements of one chlorinated ethene. Measurements were obtained from samples collected from shallow and deep depths in each of three well pairs (MW-1, MW-2, MW-3) on the Brenntag site. Measurements shown were made quarterly over more than three years. The displayed time period begins approximately six months after soil containing tetrachloroethene (PCE) was removed from the site. Residual PCE decreases over time near the former source area (MW-2 and MW-3 shallow wells) and is essentially not present in deep wells. In contrast, PCE degradation products (TCE, DCE, VC) are prevalent in deep wells.

* Post-laboratory review flagged these three values because of minor QA/QC concerns. Further review determined that the values were appropriate for this analysis.

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BRENNTAG SOUTHWEST, INC.

FIGURE 3
Concentrations of Chlorinated Ethenes
In Three Wells on Brenntag Site

Scale:	NA	Date:	DEC 2011
Prepared by:	JBM	Project No:	FG1477

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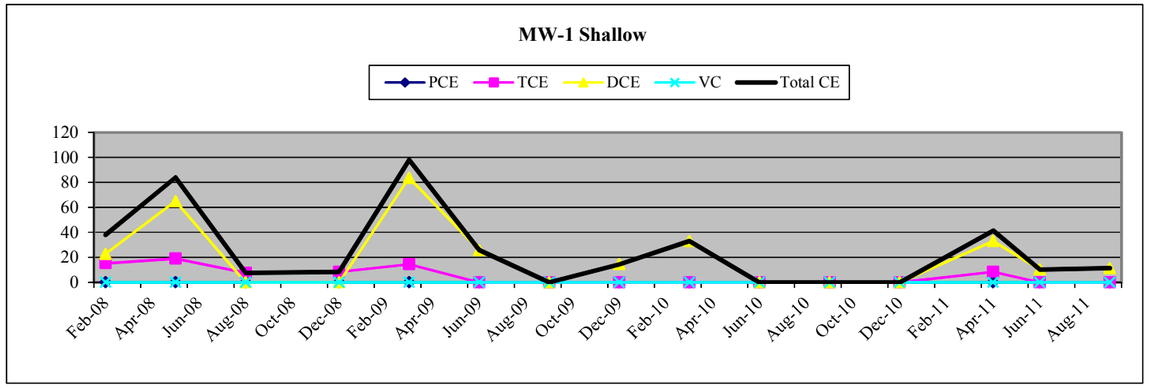
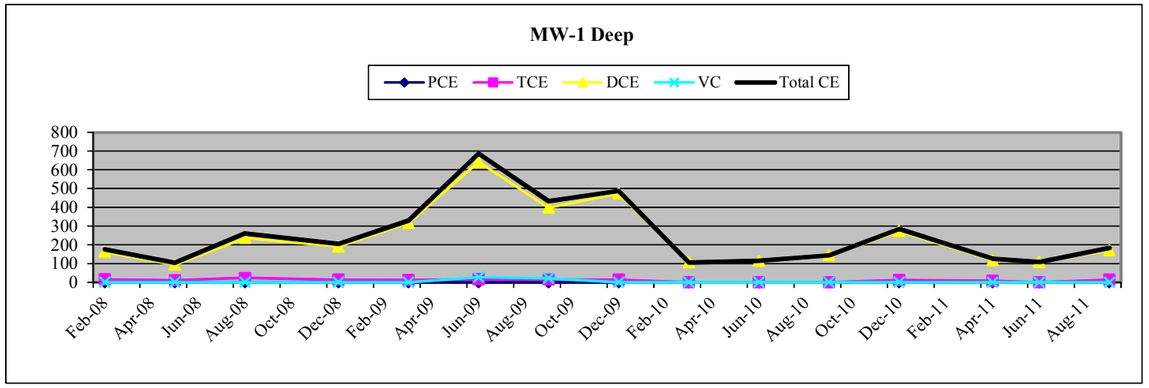
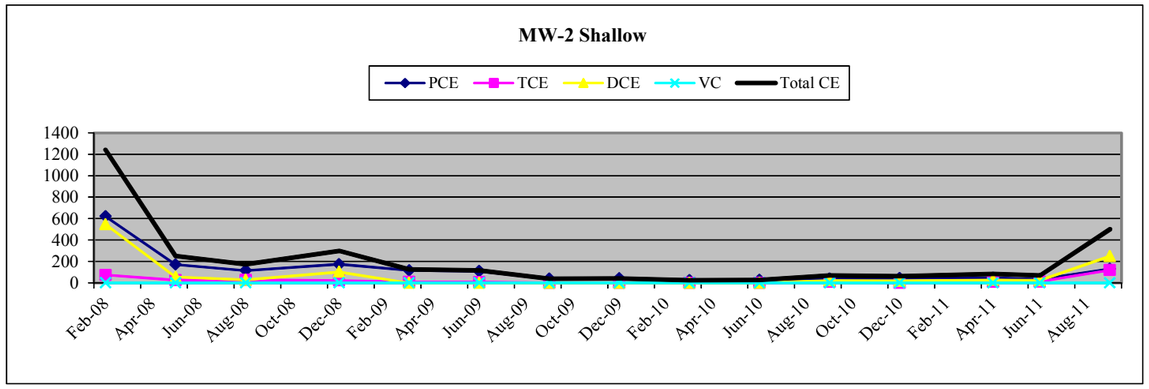
Shallow Wells

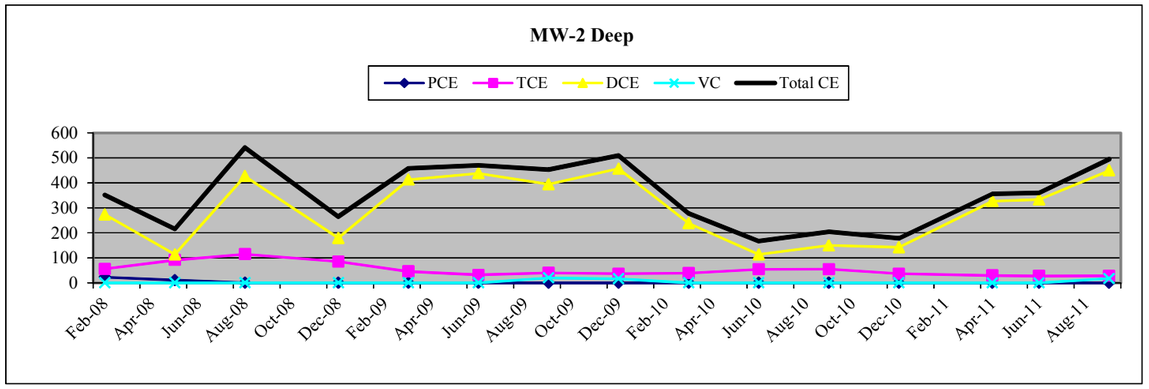
Deep Wells

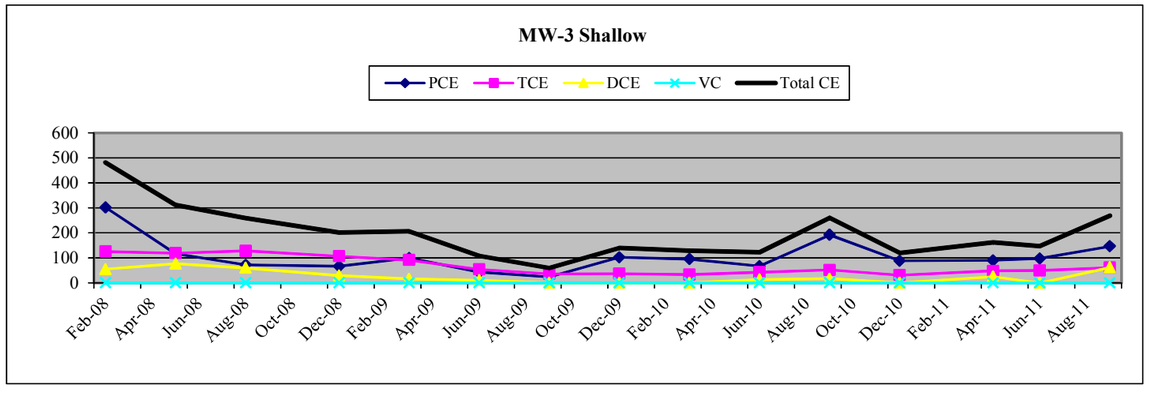
Nanomoles per Liter (nmol/L)

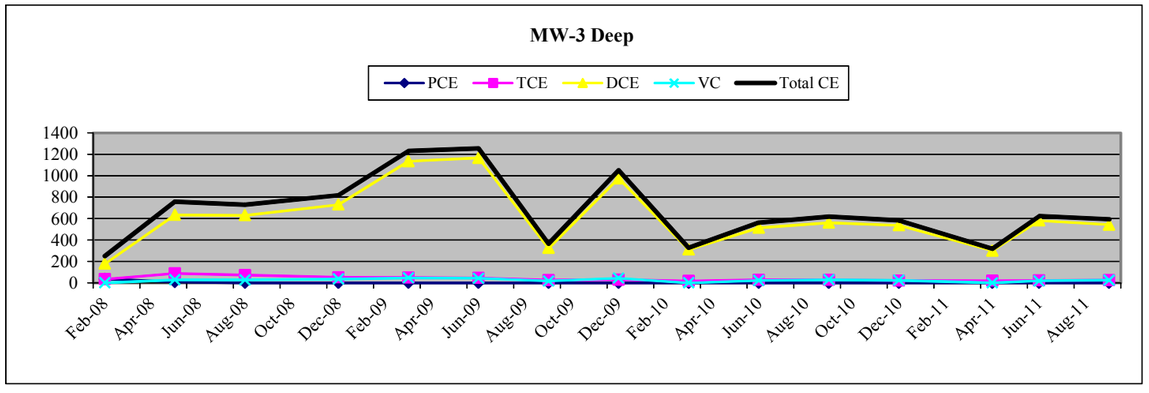












Graphs display measurements shown in Figure 3 expressed as molar concentrations. Each graph displays four chlorinated ethenes measured quarterly at one of two depths in each of three well pairs on the Brenntag site. The black plot on each graph shows the molar sum of each quarterly set of values. The most prevalent chlorinated ethene in MW-1 Shallow and all three deep wells is *cis*-1,2-dichloroethene (DCE). Concentrations of DCE in deep wells are often greater than those in shallow wells near the PCE remediation area.

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BRENNTAG SOUTHWEST, INC.

FIGURE 4

Molar Concentrations of Chlorinated Ethenes In Three Wells on Brenntag Site

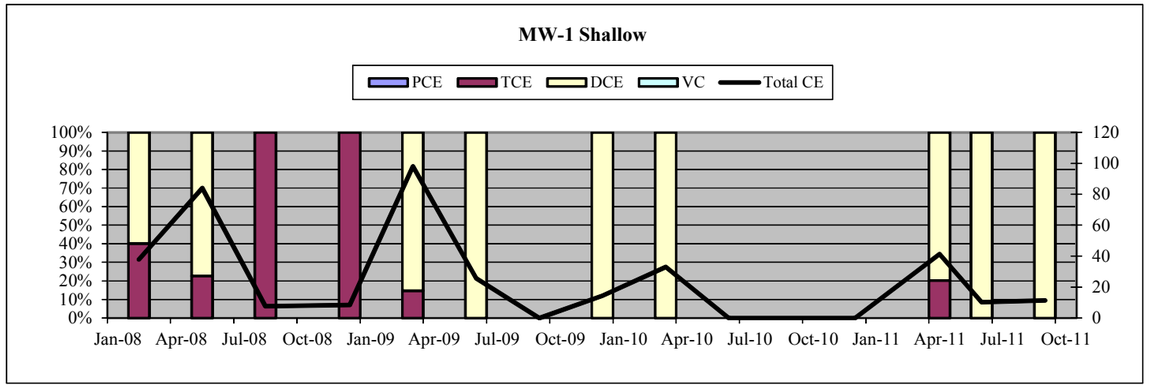
Scale:	NA	Date:	DEC 2011
Prepared by:	JBM	Project No:	FG1477

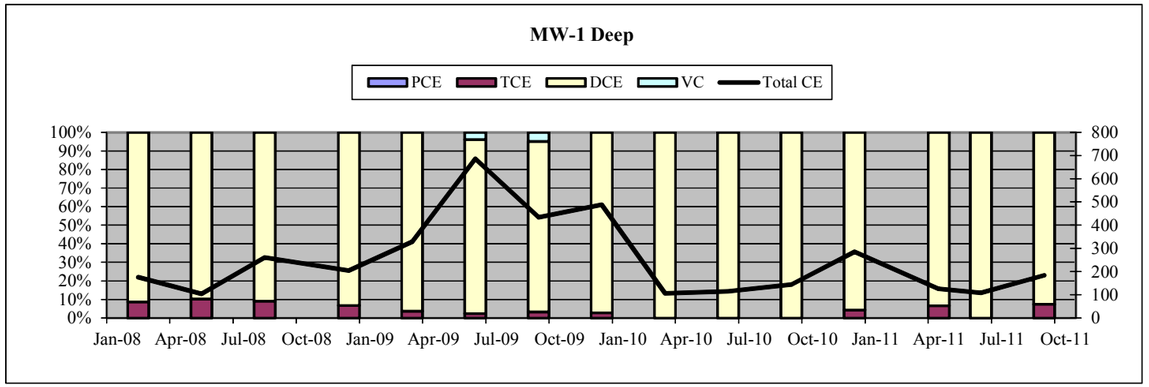
Shallow Wells

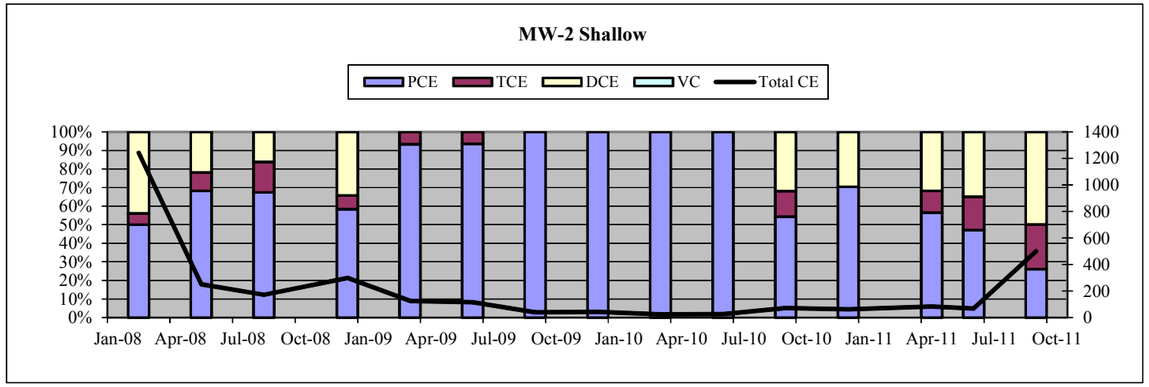
Deep Wells

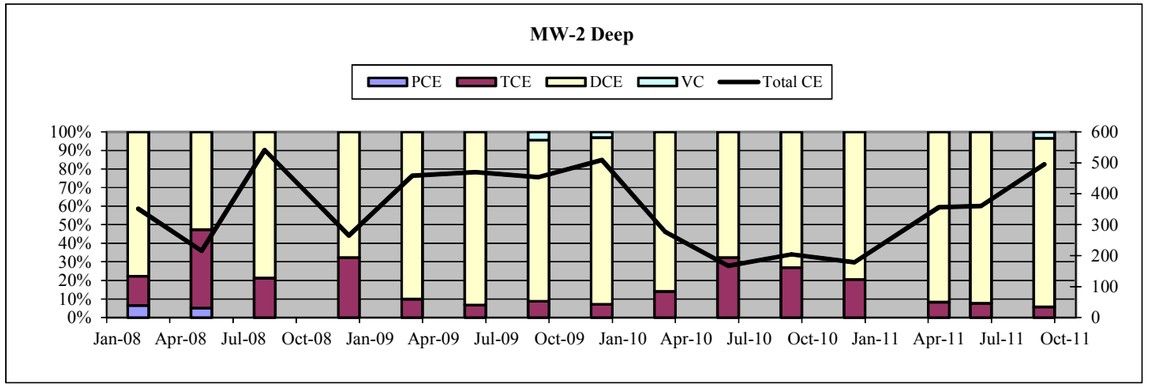
Mole Fraction of Total Chlorinated Ethenes (CE)

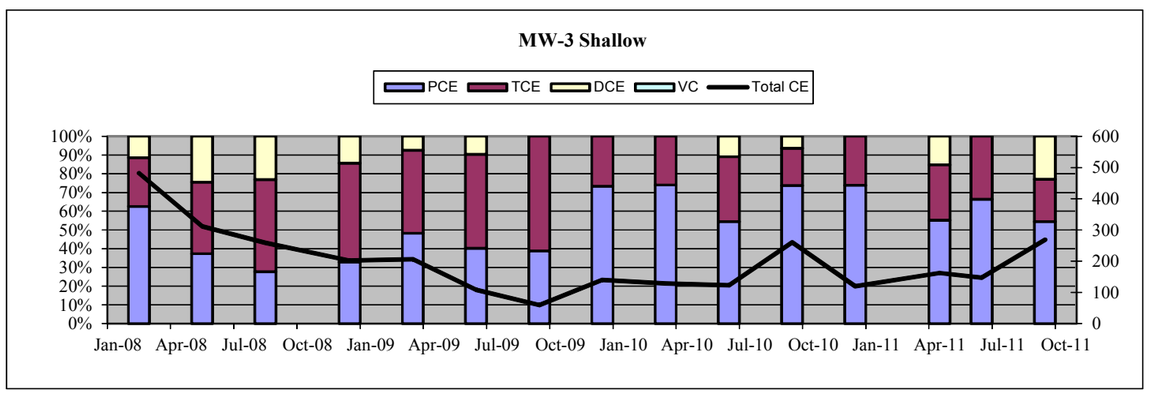
Nanomoles per Liter (nmol/L) (Total CE)

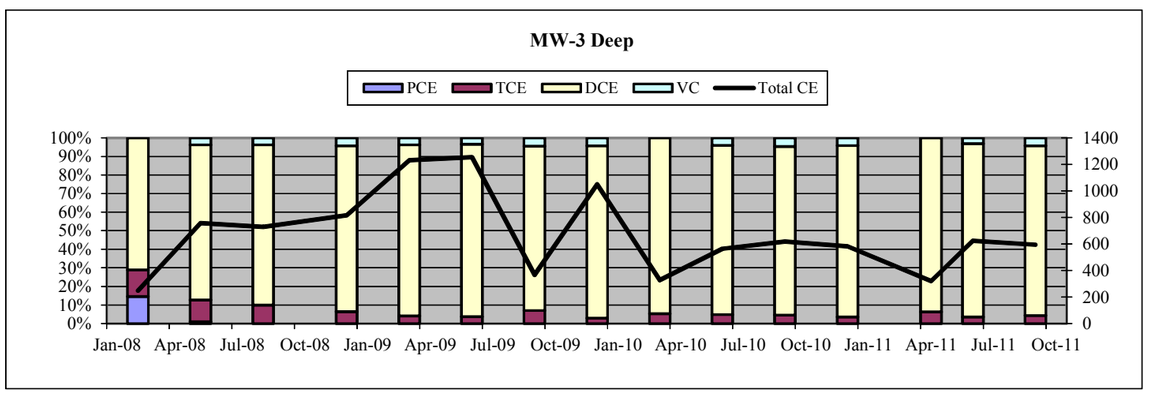












Graphs display molar concentrations shown in Figure 4 as mole fractions of the molar sum of four chlorinated ethenes on each sampling date (percent, left y-axis). The sum of the molar concentrations of the four chlorinated ethenes (nanomoles per liter, right y-axis), is shown as a black plot on each graph. Tetrachloroethene (PCE) is essentially found only in MW-2S and MW-3S at low concentrations. In contrast, all three deep wells are dominated by higher concentrations of cis-1,2-dichloroethene (DCE) and lesser amounts of trichloroethene (TCE).

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BRENNTAG SOUTHWEST, INC.

FIGURE 5

Fractional Molar Concentrations of Chlorinated Ethenes In Three Wells on Brenntag Site

Scale:	NA	Date:	DEC 2011
Prepared by:	JBM	Project No:	FG1477

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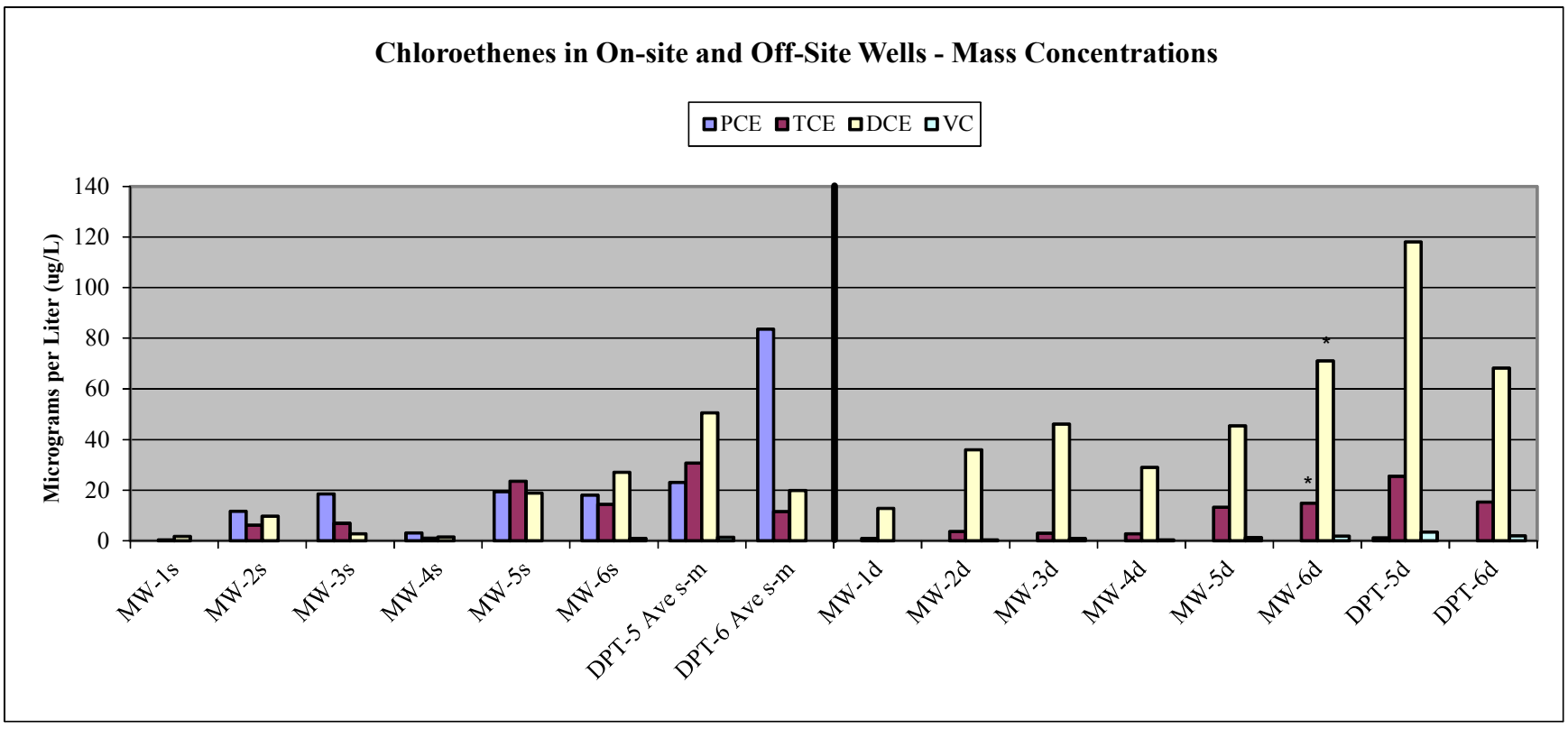
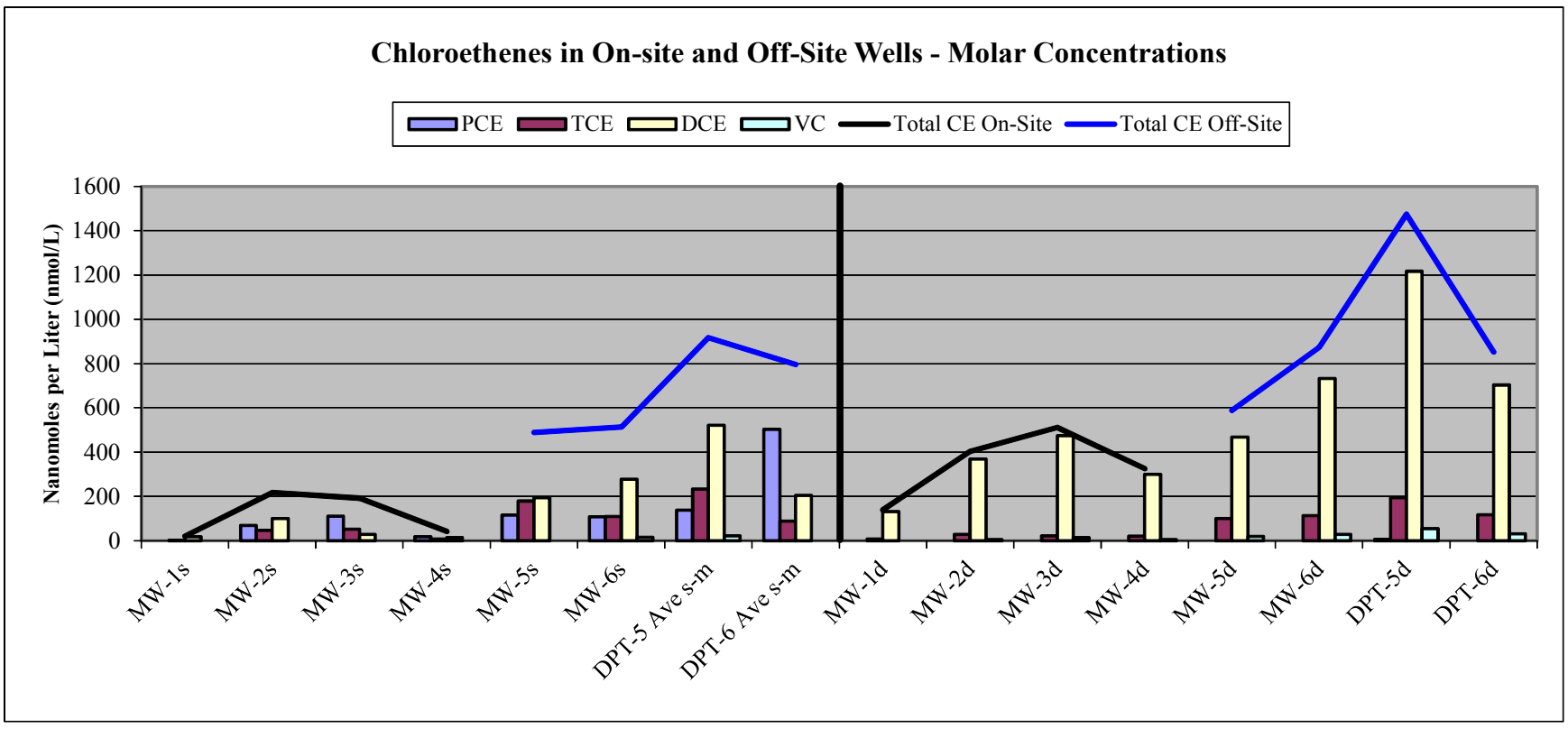
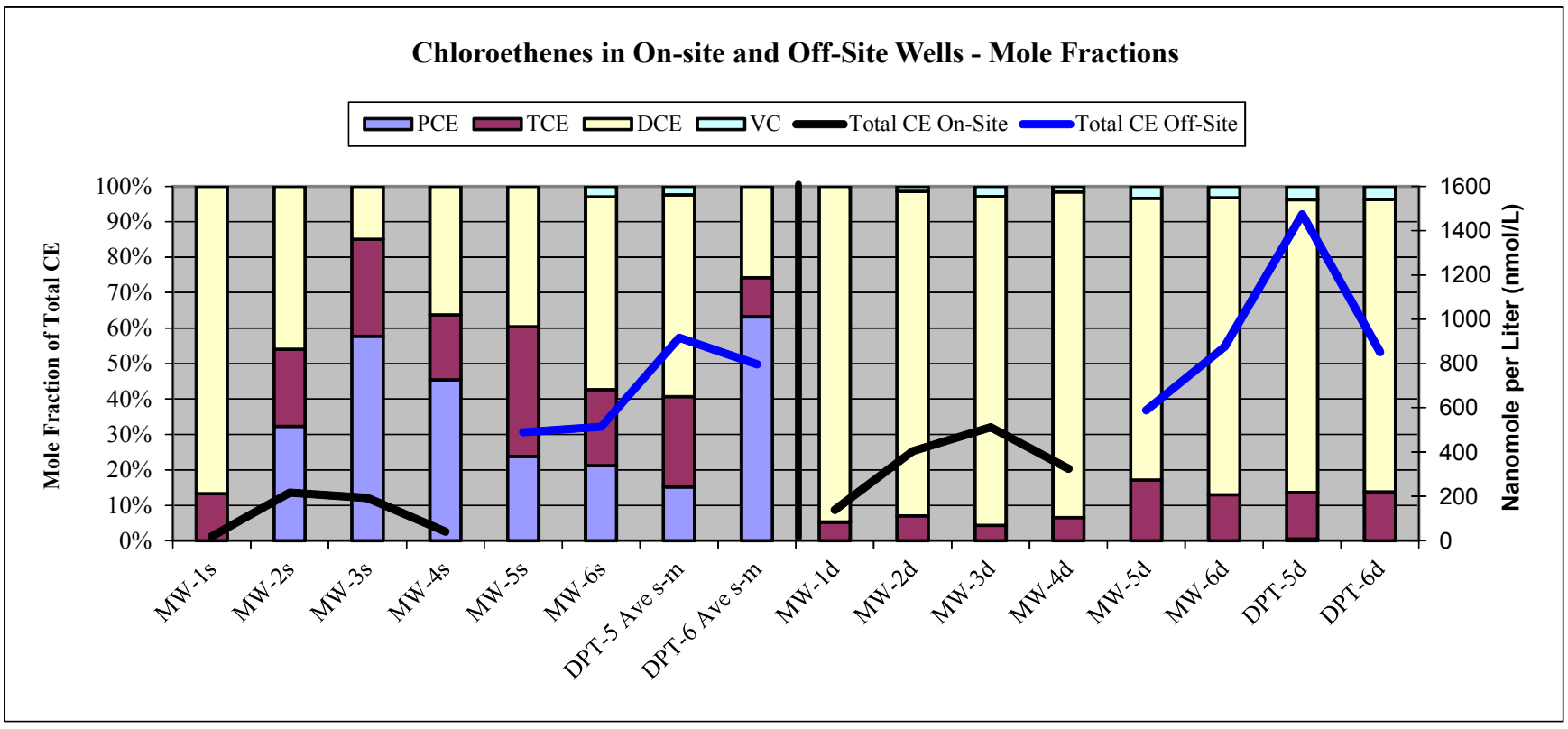
Shallow Depth Samples | Deep Depth Samples







Graphs show the average of concentrations of PCE, TCE, DCE, and VC in groundwater measured in samples collected during April, June, and September, 2011 from on-site (MW-1, MW-2, MW-3, and MW-4) and down-gradient off-site (MW-5 and MW-6) well pairs. Each well pair provided a shallow (s) and deep (d) sample. Also shown are results for samples collected using Direct Push Technology (DPT) during March, 2009 near MW-5 (DPT-5) and MW-6 (DPT-6). DPT samples were collected at three depths. The average of shallow and middle depth results (Ave s-m) and the deep depth result (d) may be compared to similar results from MW-5 and MW-6 well pairs. Concentrations are shown in terms of mass (top), molar (middle), and mole fractions of the molar sum of the four chlorinated ethenes (Total CE). The totals are also shown as lines on the mole-based graphs.

* Post-laboratory review flagged these two values because of minor QA/QC concerns. Further review determined that the values were appropriate for this analysis.

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BRENNTAG SOUTHWEST, INC.

FIGURE 6
Concentrations of Chlorinated Ethenes
In Wells On and Off Brenntag Site

Scale:	NA	Date:	DEC 2011
Prepared by:	JBM	Project No:	FG1477

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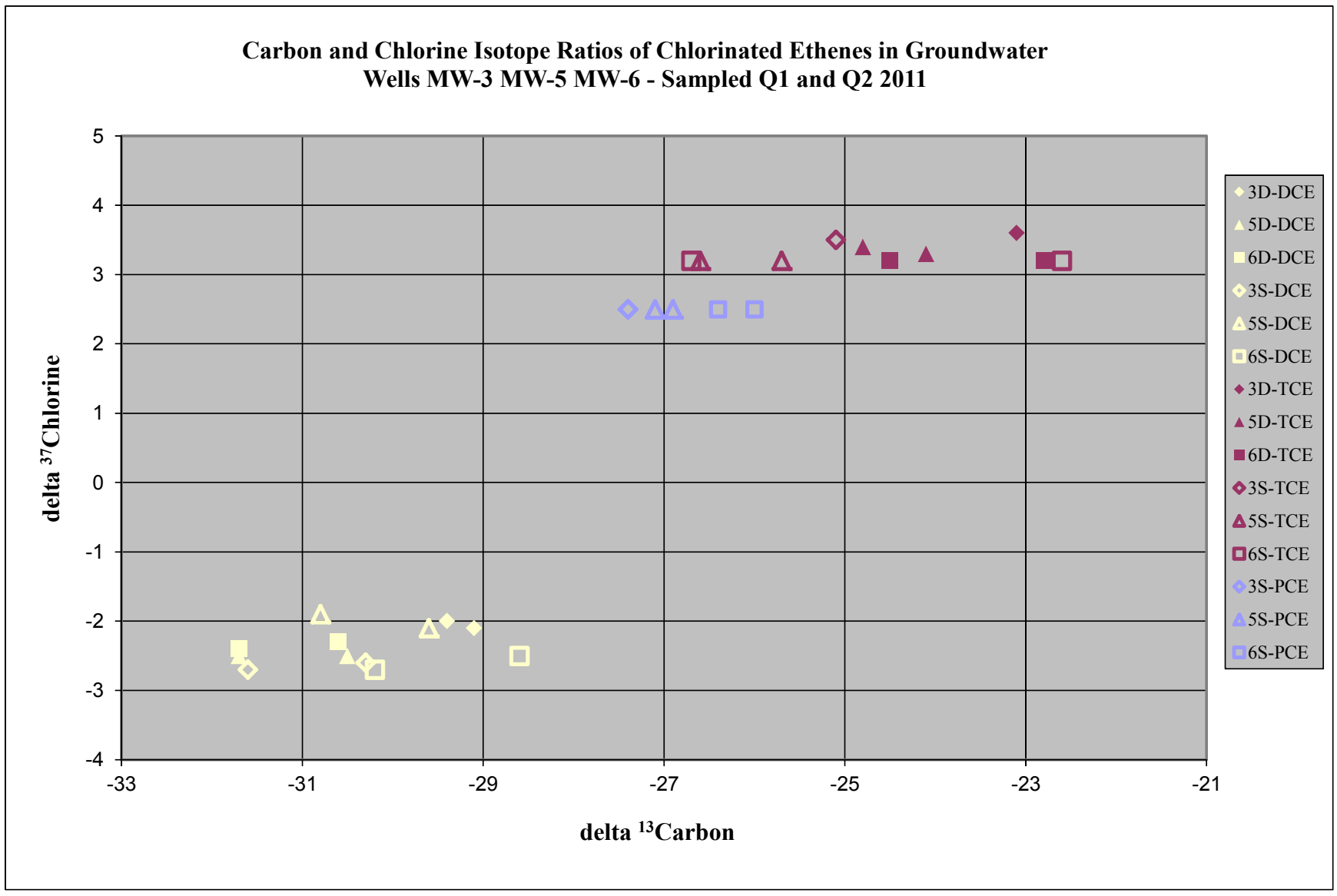

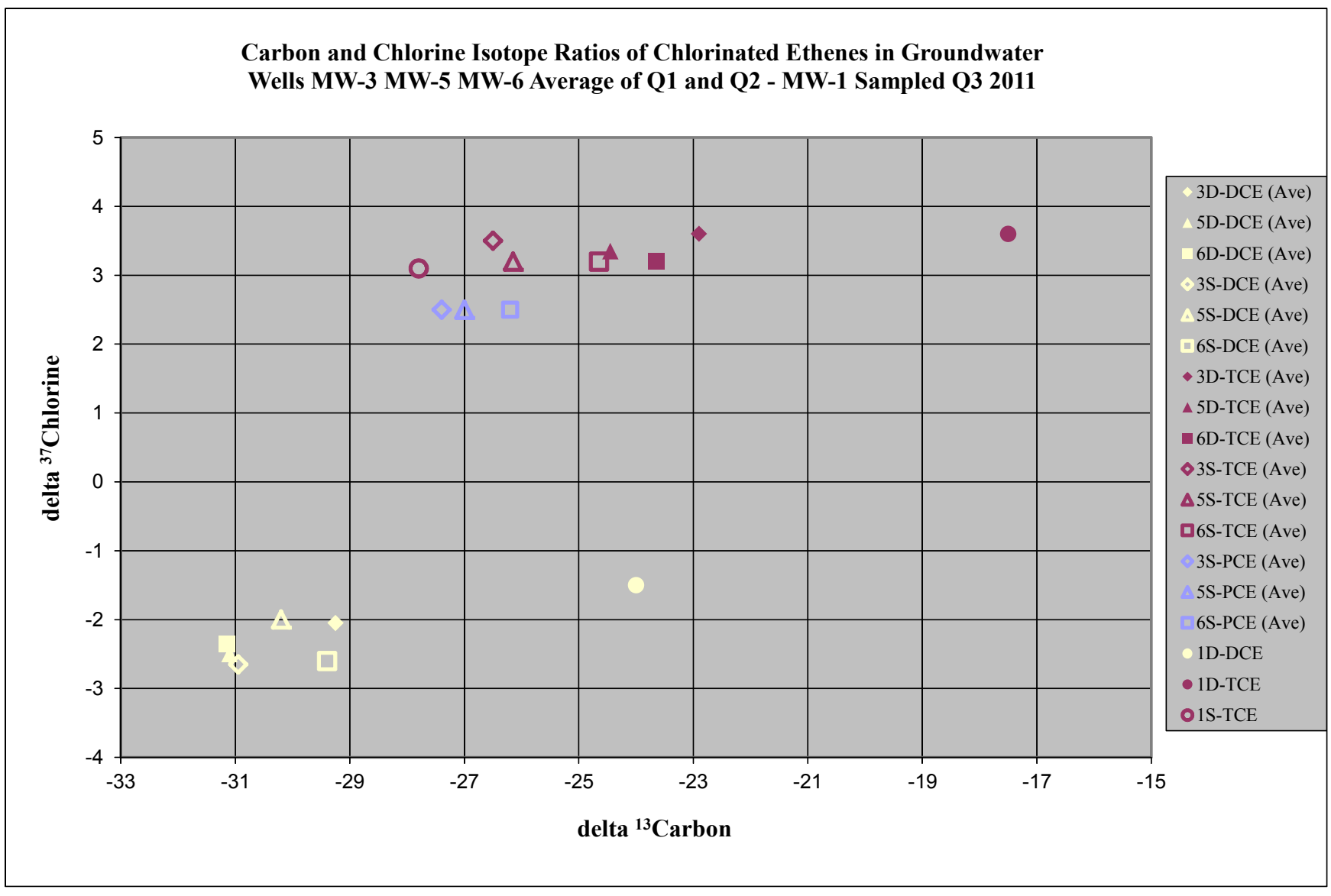

Graphs show stable isotope ratios for samples of groundwater collected during April (Q1), June (Q2), and September (Q3) 2011 from on- and off-site well pairs (each well pair consists of a shallow and deep well). Ratios of stable carbon isotopes (^{12}C and ^{13}C) and stable chlorine isotopes (^{35}Cl and ^{37}Cl) are represented by delta values (absolute ratios of each set of isotopes are normalized by dividing by isotope ratios in international standards) in units of parts per thousand (‰). The top graph shows all values measured in samples from the April and June sampling events; pairs of identical graph symbols are present if a chlorinated ethene was detected in both samples. The bottom graph shows the average of the April and June measurements, and the values obtained from the September MW-1 well samples. Legend labels indicate monitoring well number (first character: 1 and 3, on-site; 5 and 6, off-site), shallow (S) or deep (D) well in each well pair, and chlorinated ethene. DCE values are significantly different from TCE and PCE values.

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BRENNTAG SOUTHWEST, INC.

FIGURE 7
Isotope Ratios of Chlorinated Ethenes
In Wells On and Off Brenntag Site

Scale:	NA	Date:	DEC 2011
Prepared by:	JBM	Project No:	FG1477

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Appendix K

Regional Groundwater Elevation Survey Results Summary Memo, November 2, 2009

Foth

Memorandum

November 2, 2009

ROBERT M. KICK LICENSED 556 KANSAS GEOLOGIST 11-2-09

TO: Chris Carey, KDHE

CC: Peter Ramaley, Brenntag; Kris Gamble, Foth I&E

FR: Robert M. Kick, Foth I&E

RE: Regional Groundwater Elevation Survey Results Summary

On October 2, 2009, groundwater elevations were collected from seven wells, owned by the City of Wichita, located within ¼ mile from the Brenntag Southwest facility at 1520 N. Barwise, Wichita, KS. Groundwater elevations were collected by Geotechnical Services Inc. (GSI).

The City of Wichita originally identified 10 monitoring wells for the groundwater elevation survey; however, during the field event it was concluded that three of the wells had been destroyed or abandoned.

Attached is the potentiometric surface map showing the results of the groundwater elevation survey. Included on the map is the measured groundwater elevation for on-site well MW-3d, which was collected on September 18, 2009 during the third quarter groundwater monitoring event.

Below is a table summarizing the groundwater elevation data.

Well ID	TOC Elevation	Depth to Groundwater	Groundwater Elevation
NWL-24S	1305.04	11.40	1293.64
WND-41D	1306.94	11.35	1295.59
WND-41S	1306.97	11.45	1295.52
WND-46D	1304.87	10.88	1293.99
WND-46S	1304.98	11.00	1293.98
WND-47D	1304.63	11.52	1293.11
WND-47S	1304.81	11.55	1293.26
MW-3d	1306.54	11.86	1294.68

Depth to groundwater was measured on 10/2/09 for all wells with the exception of MW-3d, which was recorded on 9/18/09.

Results of this groundwater elevation survey indicate that regional groundwater flow is to the southeast. This conclusion is consistent with groundwater elevation data recorded at the site during the quarterly groundwater monitoring events.

The information contained in this memorandum is considered privileged and confidential and is intended only for the use of recipients and Foth.

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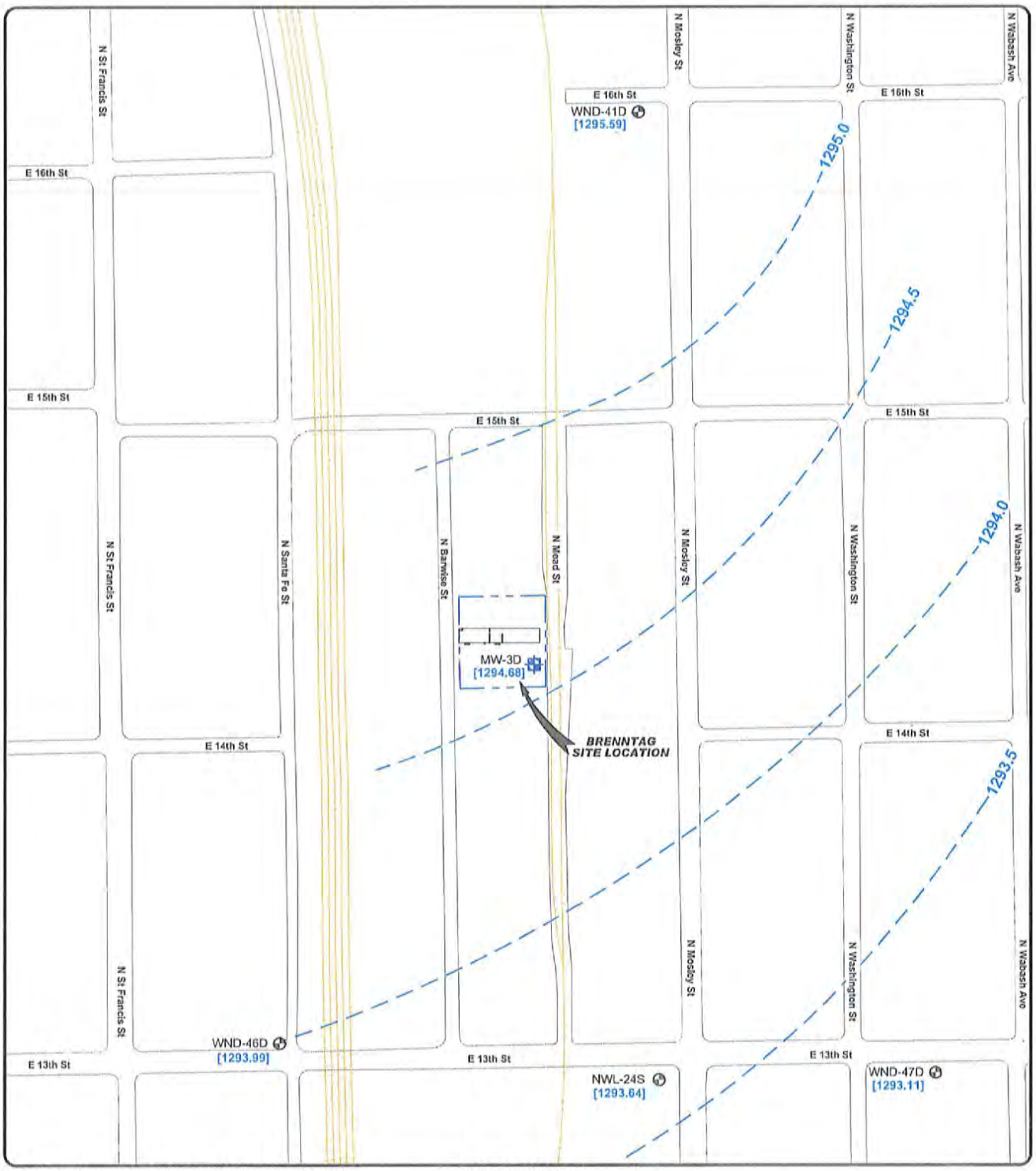

Source: 2008 6-inch resolution aerial recieved from Sedgwick County, KS Geographical Information Services (GIS).

SITE LOCATION
SW1/4 S9, T27S, R1E

LEGEND

- CITY OF WICHITA MONITORING/OBSERVATION/ PIEZOMETER WELL LOCATION.
- BRENNTAG SITE MONITORING WELL

NOTE: Monitoring Well MW-3D was gauged on 9/18/09. Wells belonging to the City of Wichita were gauged on 10/2/09.

N

REGIONAL POTENTIOMETRIC SURFACE MAP
BRENNTAG SITE
WICHITA, KANSAS

SCALE 0 150' 300'

PROJECT ID: 00FG1477.200

DATE: 10/26/2009

PREPARED BY: ADM1

CHECKED BY: KRG1

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FIGURE NO. 1

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Appendix L

Third Quarter 2008 Progress Report, June 10, 2009, with Reanalyzed Hydraulic Testing Results

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

October 30, 2008

Mr. Chris Carey
Bureau of Environmental Remediation
Kansas Department of Health and Environment
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367

BRENNTAG SOUTHWEST, WICHITA, KS – 1520 NORTH BARWISE
THIRD QUARTER 2008, QUARTERLY PROGRESS REPORT

Dear Mr. Carey:

In accordance with the December 9, 2002, Unilateral Order (Order) issued by the Kansas Department of Health and the Environment (KDHE) to Brenntag, Inc. (Brenntag), this letter provides a Quarterly Progress Report (Progress Report) to the KDHE regarding the status of ongoing work at the Brenntag facility located at 1520 North Barwise in Wichita, Kansas (Site).

The intent of this Progress Report is to describe actions, progress, and status of projects that have been taken toward achieving compliance with the Order and to identify any requirements that were not completed and/or any potential problems.

The period of time covered by this Progress Report is July 1 to September 30, 2008. The next Progress Report will be submitted on or before January 31, 2009 for the time period from October 1 to December 31, 2008.

SCOPE OF WORK PERFORMED

The groundwater monitoring wells were sampled August 29, 2008. The following activities were performed:

1. Monitoring Well Sampling Monitoring wells were sampled to evaluate groundwater quality. These 2-inch wells were constructed as follows:

Well Name	Screen Depth	Total Depth
MW-1s	15.0 to 25.0	25.5
MW-1d	32.0 to 37.0	37.5
MW-2s	15.0 to 25.0	25.5
MW-2d	31.0 to 36.0	36.5
MW-3s	15.0 to 25.0	25.5
MW-3d	33.0 to 38.0	38.5
PZ-3	10.0 to 18.0	20.0

Note: PZ-3 casing diameter is 1-inch.

The following work was performed.

- Groundwater wells were sampled using a no-purge HydraSleeve® technique. HydraSleeve® samplers were deployed in the wells during the previous quarter's sampling event.

- Groundwater samples were collected in laboratory supplied sample bottles, packaged on ice with a completed chain of custody and trip blank and submitted to the analytical laboratory by express courier for analysis of VOCs. Samples were sent to Pace Analytical Laboratory of Lenexa, KS. A two-week analytical turnaround time was requested.

- The next groundwater sampling event will be conducted in November 2008.

Piezometer Sampling – PZ-3 was sampled using the "check-valve" method. A check-valve was attached to the end of new polyethylene tubing. This dedicated tubing and check valve was inserted into the piezometer into the screened interval. The tubing was hand-oscillated inside the piezometer to draw water into the tubing. A limited amount of water was purged to minimize suspended sediment. Groundwater samples were collected in laboratory supplied sample bottles, packaged on ice with a completed chain of custody and submitted to the analytical laboratory by express courier for analysis of volatile organic compounds. PZ-3 will be voluntarily sampled again during the fourth quarter groundwater monitoring event.

Hydraulic Testing – Hydraulic testing of site wells was conducted using a pneumatic slug testing device, pressure transducer, and a data logger.

- Slug tests were conducted on each monitoring well in order to estimate hydraulic conductivity values for the site. A pneumatic slug was used to affect changes in water levels, while a pressure transducer recorded the water level rebound to static conditions. The resultant data was analyzed using AQTESOLV, a software program designed for the analysis of aquifer tests, using the Butler 1998 solution. The average conductivity for the deep monitoring wells was calculated to be 293 feet per day (ft/day), and the average conductivity for the shallow monitoring wells was calculated to be 140 ft/day. MW-02S water levels exhibited anomalous behavior, and the data was not analyzed. The average hydraulic conductivity for MW-03D was 48.1, which was an order of magnitude lower than hydraulic conductivity in other monitoring wells. Because MW-03D appears to be anomalous, the estimated hydraulic conductivity for this well was not included in the deep well average estimate. Table 4 presents the hydraulic conductivity estimate for each completed slug test and calculated averages. The AQTESOLV curve-matched solutions for each slug test are provided in Appendix A.

ADDITIONAL WORK PERFORMED

- The *Second Quarterly Groundwater Monitoring Report* was submitted to KDHE on July 1, 2008.

- The Forrester Group contacted Black and Veatch consultant Mark Snyder regarding Brenntag's interest in gaining access to Cargill property on July 15, 2008. It was determined that Cargill was setting a prohibitive standard of care for any on-site drilling work and so was essentially refusing site access. After discussions with KDHE and Brenntag, a decision was made to pursue access to railroad property down gradient of the Brenntag facility. The process to gain access to railroad property downgradient of the site was then initiated.

- The *Revised Work Plan for Off-Site Investigations* was submitted to KDHE on July 18, 2008
- A *Work Plan for Additional Groundwater Analyses to Assess In-Situ Remediation Technologies* was submitted to KDHE on July 18, 2008.
- The *Second Quarterly Progress Report* was submitted to KDHE on July 29, 2008.
- KDHE's comments on the *Second Quarterly Groundwater Monitoring Report, Revised Work Plan for Off-Site Investigations,* and *Work Plan for Additional Groundwater Analyses to Assess In-Situ Remediation Technologies* were received by The Forrester Group on July 29, 2008.
- Brenntag's response to KDHE's comments on the (1) *Second Quarterly Groundwater Monitoring Report, (2) Revised Work Plan for Off-Site Investigations,* and (3) *Work Plan for Additional Groundwater Analyses to Assess In-Situ Remediation Technologies* was submitted on August 22, 2008. KDHE approval of these documents was received on September 2, 2008.
- A "Request for Environmental Access" was submitted to Union Pacific Railroad on August 22. This request is to facilitate the KDHE-requested off-Site investigation.
- The third quarter groundwater monitoring and additional groundwater analyses to assess in-situ remediation technologies was performed by GSI on August 29, 2008

RESULTS SUMMARY

Groundwater levels measured during this sampling event are shown in Table 1. Figure 1 presents the groundwater gradient and flow direction from the August, 2008 event. The groundwater monitoring analytical results are provided in Appendix B. Tables 2 and 3 provide a summary of the results and a comparison of the results with the RSK Residential Groundwater Pathway values. Also by request of KDHE a map of chemical distribution in groundwater from the August sampling event is presented in Figures 2 and 3.

Data were validated as described in The Forrester Group SOP 500 Laboratory Data Deliverable Selection and Data Validation Requirements. All data were determined to be 100 percent usable. Data Validation sheets from this event are included in Appendix B.

A brief discussion of the analytical results is provided below.

- No groundwater analytical results exceeded the RSK values for Residential Groundwater in monitoring wells MW-1s and MW-1d.
- The groundwater analytical results for tetrachloroethene exceeded the RSK value for Residential Groundwater (0.005 mg/L) in monitoring wells MW-2s (0.0192 mg/L), MW-3s (0.0119 mg/L), and PZ-3 (0.0209 mg/L).
- The groundwater analytical results for trichloroethene exceeded the RSK value for Residential Groundwater (0.005 mg/L) in monitoring wells MW-2d (0.0151 mg/L), MW-3d (0.0095 mg/L), and MW-3s (0.0168 mg/L).

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- Tetrachloroethene and trichloroethene concentrations appear to be decreasing in MW-2s, MW-3s, and PZ-3 following excavation of soil in August and September 2007.

- Tetrachloroethene concentrations appear to be decreasing in MW-2d, MW-3d, and MW-3s while trichloroethene concentrations appear to be unaffected following soil excavation in August and September 2007.

WORK PROPOSED

The following is proposed for the next reporting period.

- The groundwater monitoring wells and PZ-3 are scheduled to be sampled during the month of November, 2008. KDHE will receive a notification of field activities at least 10 working days prior to the event.

- Upon resolving access to railroad property, the off-site groundwater investigation will be scheduled.

ISSUES/CONCERNS

No issues or concerns have been identified at this time.

If you have any questions or comments regarding this report, please call me at (417) 864-6444, extension 121, or Scott Barton at extension 132.

Sincerely,

Robert M. Kick

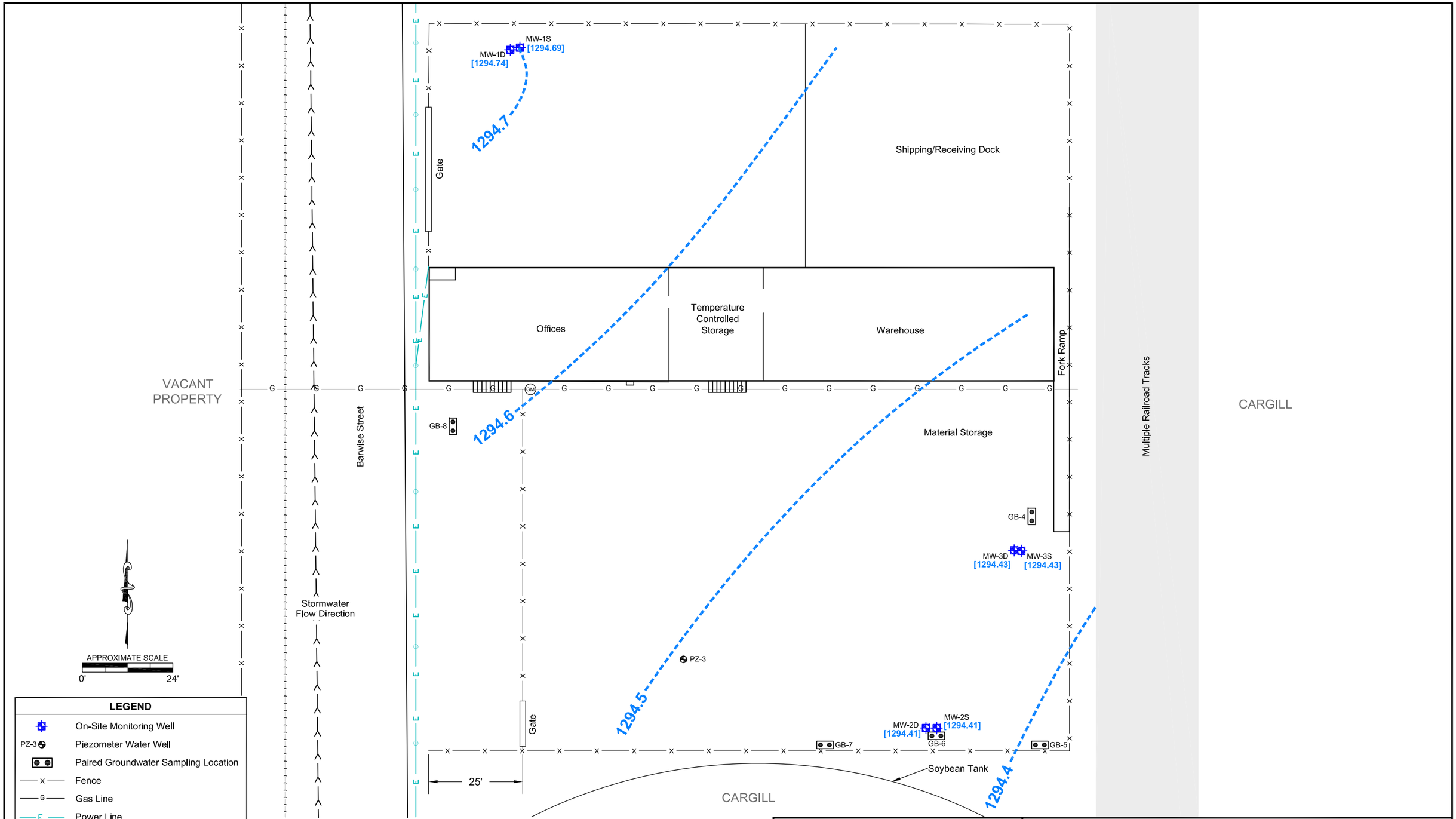
Robert M. Kick, L.G.
Principal

Copy to: Ray K. Forrester, The Forrester Group Inc.
Peter Ramaley, Brenntag, Inc.

ROBERT M. KICK
LICENSED
556
KANSAS
GEOLOGIST

Robert M. Kick
10-30-08

FIGURES



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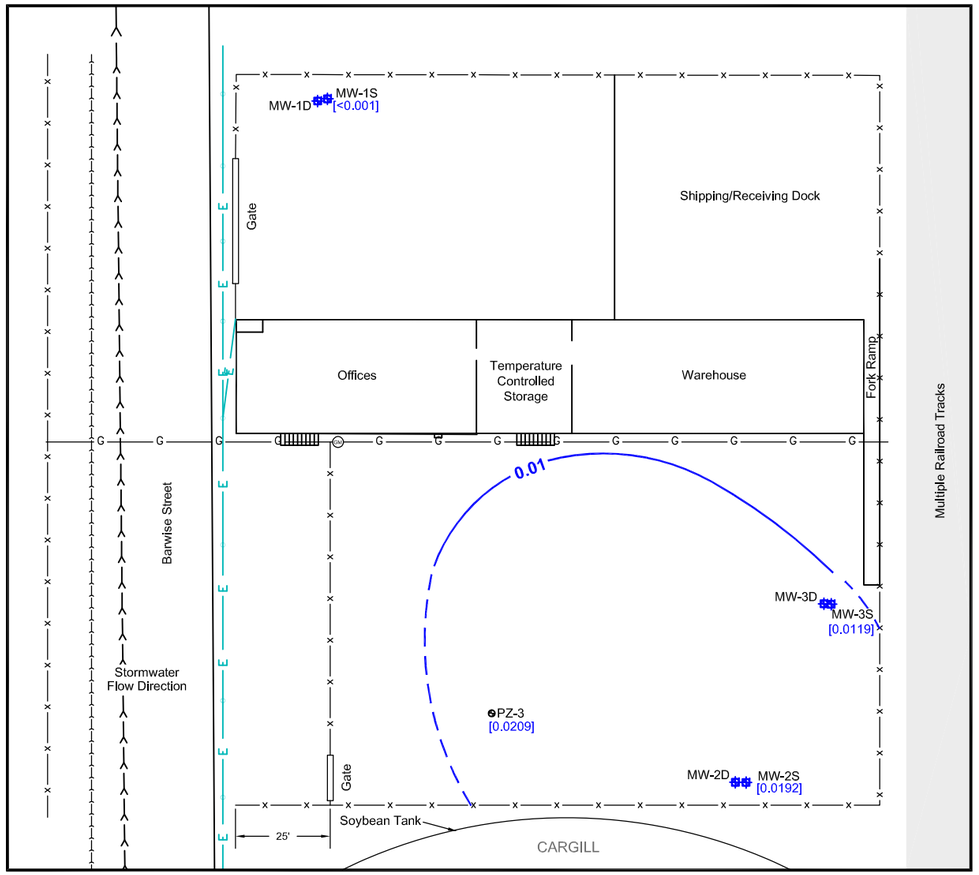
TITLE:

FIGURE 1
GROUNDWATER CONTOUR MAP - AUGUST 2008
BRENNTAG SOUTHWEST
1520 N. BARWISE
WICHITA, KANSAS

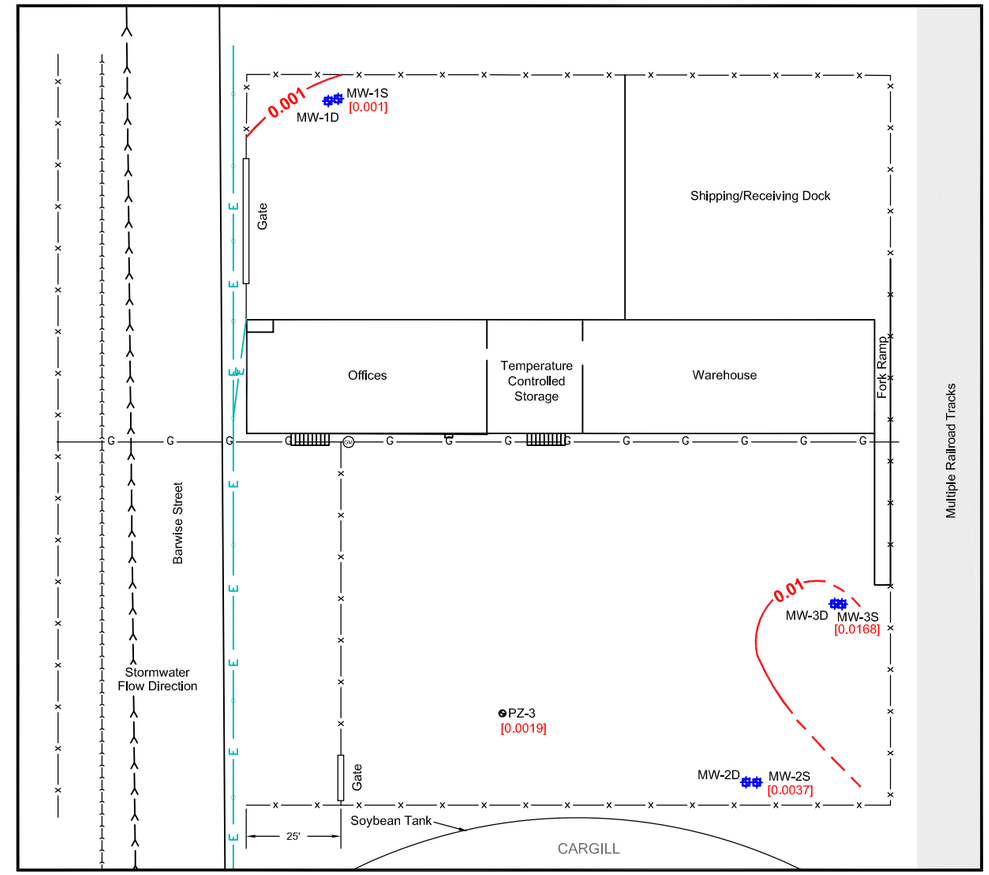
1477-GW WatLev08.dwg: 09/24/2008

PCE ISOCONCENTRATION CONTOURS



APPROXIMATE SCALE
0' 40'

TCE ISOCONCENTRATION CONTOURS



APPROXIMATE SCALE
0' 40'

LEGEND

- On-Site Monitoring Well
- PZ-3 Piezometer Water Well
- Fence
- Gas Line
- Power Line
- Sewer Line
- Storm Sewer
- 0.01 PCE Contour (mg/L)
- 0.01 TCE Contour (mg/L)

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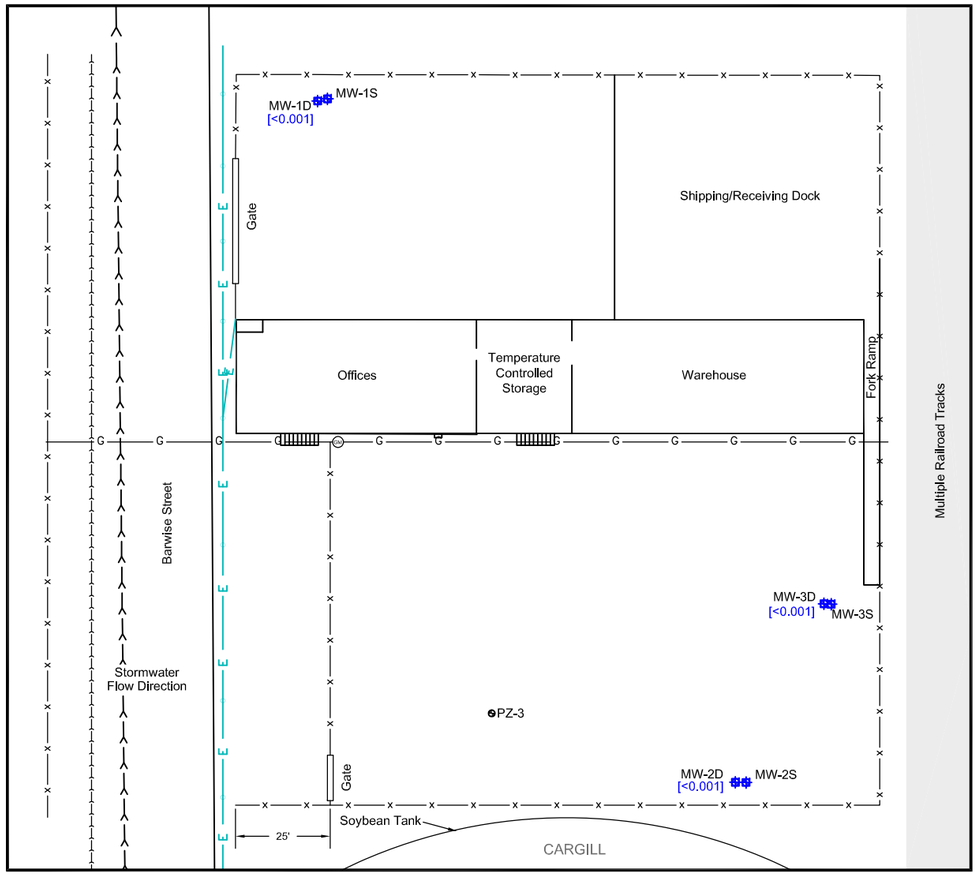
TITLE:

FIGURE 2
ISOCONCENTRATION CONTOUR MAP
SHALLOW WELLS - AUGUST 2008
BRENNTAG SOUTHWEST
WICHITA, KANSAS

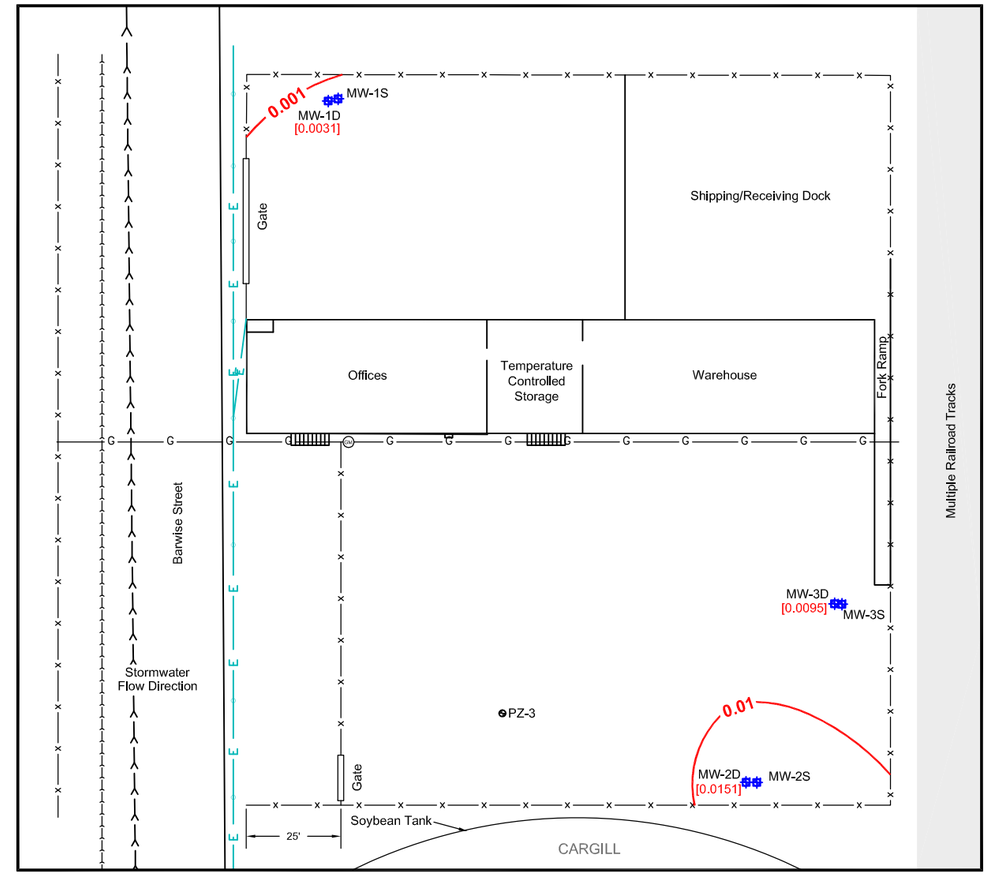
1477-GW PCE-TCE in GW08r2.dwg: 09/24/2008

PCE ISOCONCENTRATION CONTOURS



APPROXIMATE SCALE
0' 40'

TCE ISOCONCENTRATION CONTOURS



APPROXIMATE SCALE
0' 40'

LEGEND

	On-Site Monitoring Well
PZ-3	Piezometer Water Well
—x—	Fence
—G—	Gas Line
—E—	Power Line
	Sewer Line
—>—	Storm Sewer
0.001	PCE Contour (mg/L)
0.001	TCE Contour (mg/L)

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TITLE:

FIGURE 3
ISOCONCENTRATION CONTOUR MAP
DEEP WELLS - AUGUST 2008
BRENNTAG SOUTHWEST
WICHITA, KANSAS

1477-GW PCE-TCE in GW08r2.dwg: 09/24/2008

TABLES

Table 1
Groundwater Elevations
Through August 2008
Brenntag Southwest, Inc.
Wichita, KS

Well ID	MP Elevation (ft msl)	February 7, 2008		May 6, 2008		August 29, 2008	
		Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
MW-1S	1305.20	11.99	1293.21	11.59	1293.61	10.51	1294.69
MW-1D	1305.17	11.95	1293.22	11.52	1293.65	10.43	1294.74
MW-2S	1306.54	13.60	1292.94	13.22	1293.32	12.13	1294.41
MW-2D	1306.44	13.51	1292.93	13.10	1293.34	12.03	1294.41
MW-3S	1306.54	13.61	1292.93	13.20	1293.34	12.11	1294.43
MW-3D	1306.54	13.50	1293.04	13.21	1293.33	12.11	1294.43
PZ-3	1305.72	13.25	1292.47	12.87	1292.85	11.78	1293.94

MP - Measuring Point
MSL - Mean Sea Level

Table 2
Groundwater Monitoring
Analytical Data Summary
Through August 2008
Brenntag Southwest, Inc.
Wichita, KS

	Well ID	MW-1 d			MW-1 s			MW-2 d			MW-2 s			MW-3 d			MW-3 s			PZ-3		
Chemical Name	**RSK for Residential Groundwater Pathway**	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008
Acetone	0.26	ND	ND	ND	ND	ND	ND	ND	0.0407	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	0.0016	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.089	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	ND	ND	ND	ND	ND	ND	0.0014	ND	ND / ND	ND / ND	ND / ND	0.0013	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	0.0019	ND	0.0018	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0074 / 0.0069	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	0.0014	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	--	0.0158	0.0091	0.0233	0.0022	0.0063	ND	0.0269	0.011	0.0421	0.0539 / 0.0498	0.0053 / 0.0047	0.0027 / 0.0017	0.0175	0.0631	0.0623	0.0053	0.0074	0.0058	0.0079	0.0036	0.0024
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	0.0018	0.0016	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	0.0156	0.0091	0.0230	0.0022	0.0063	ND	0.0265	0.011	0.0414	0.053 / 0.0491	0.0053 / 0.0047	0.0027 / 0.0017	0.0172	0.0615	0.0611	0.0053	0.0074	0.0058	0.0076	0.0036	0.0024
trans-1,2-Dichloroethene	0.1	0.0002 J	ND	0.00027 J	ND	ND	ND	0.00043 J	ND	0.00073 J	0.00094 / 0.00079 J	ND / ND	ND / ND	0.00032 J	0.0016	0.0012	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	0.0038	0.0018	ND	**0.103 / 0.0947**	**0.0284 / 0.0241**	**0.0192 / 0.0167**	**0.006**	0.0012	ND	**0.0501**	**0.0193**	**0.0119**	**0.117**	**0.0734**	**0.0209**
Toluene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	0.002	0.0014	0.0031	0.002	0.0025	0.0010	**0.0073**	**0.012**	**0.0151**	**0.0098 / 0.0091**	0.0033 / 0.0031	0.0037 / 0.0025	0.0047	**0.0116**	**0.0095**	**0.0165**	**0.0156**	**0.0168**	**0.0081**	0.0044	0.0019
Trichlorofluoromethane	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	0.0018	0.0017	ND	ND	ND	ND	ND	ND
Xylene (Total)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Results mg/L.
J - estimated concentration.

Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 3
Groundwater Monitoring
Analytical Data - Detects Only
Through August 2008
Brenntag Southwest, Inc.
Wichita, KS

Well ID		MW-1 d			MW-1 s			MW-2 d			MW-2 s			MW-3 d			MW-3 s			PZ-3		
Chemical Name	**RSK for Residential Groundwater Pathway**	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008	2/7/2008	5/6/2008	8/29/2008
Acetone	0.26	ND	ND	ND	ND	ND	ND	ND	0.0407	ND	ND / ND	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.08	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	0.0016	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.08	ND	ND	ND	ND	ND	ND	ND	0.0014	ND	ND / ND	ND / ND	ND / ND	0.0013	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.08	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	0.0019	ND	0.0018	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0074 / 0.0069	ND / ND	ND / ND	ND	ND	ND	ND	ND	ND	0.0014	ND	ND
1,2-Dichloroethene (Total)	--	0.0158	0.0091	0.0233	0.0022	0.0063	ND	0.0269	0.011	0.0421	0.0539 / 0.0498	0.0053 / 0.0047	0.0027 / 0.0017	0.0175	0.0631	0.0623	0.0053	0.0074	0.0058	0.0079	0.0036	0.0024
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	ND	0.0016	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	0.0156	0.0091	0.0230	0.0022	0.0063	ND	0.0265	0.011	0.0414	0.053 / 0.0491	0.0053 / 0.0047	0.0027 / 0.0017	0.0172	0.0615	0.0611	0.0053	0.0074	0.0058	0.0076	0.0036	0.0024
trans-1,2-Dichloroethene	0.1	0.0002 J	ND	0.00027 J	ND	ND	ND	0.00043 J	ND	0.00073 J	0.00094 / 0.00079 J	ND / ND	ND / ND	0.00032 J	0.0016	0.0012	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	0.0038	0.0018	ND	**0.103 / 0.0947**	**0.0284 / 0.0241**	**0.0192 / 0.0167**	**0.006**	0.0012	ND	**0.0501**	**0.0193**	**0.0119**	**0.117**	**0.0734**	**0.0209**
Trichloroethene	0.005	0.002	0.0014	0.0031	0.002	0.0025	0.0010	**0.0073**	**0.012**	**0.0151**	**0.0098 / 0.0091**	0.0033 / 0.0031	0.0037 / 0.0025	0.0047	**0.0116**	**0.0095**	**0.0165**	**0.0156**	**0.0168**	**0.0081**	0.0044	0.0019
Vinyl chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND	ND / ND	ND	0.0018	0.0017	ND	ND	ND	ND	ND	ND

Results mg/L.
J - estimated concentration.

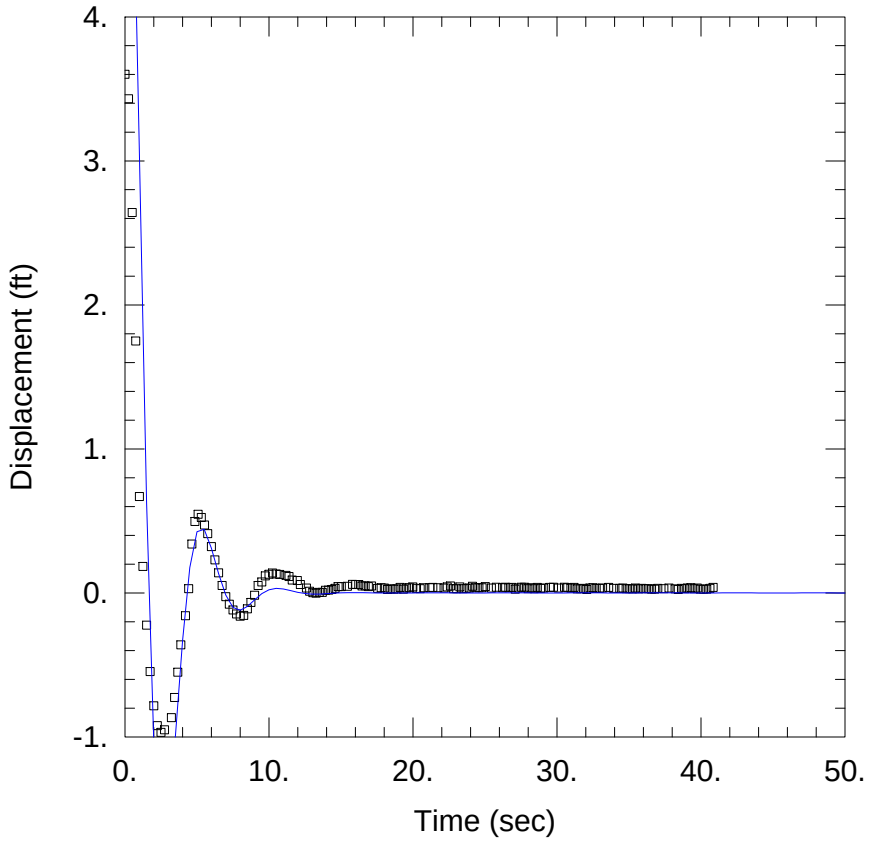
Bolded results exceed RSK value.
/ # - duplicate sample collected.

Table 4
Hydraulic Conductivity Estimates
Brenntag Southwest, Inc.
Wichita, KS

	Average K		Test Iterations (ft/day)				
Well ID	**cm/sec**	**ft/day**	**1**	**2**	**3**	**4**	**5**
MW-01D	0.109	307.4	348.2	344.2	224.9	312.3	320.4
MW-01S	0.042	118.9	131.4	138.5	90.4	115.2	103.2
MW-02D	0.098	278.9	298.7	327.6	259.9	229.2	295.8
MW-03D	0.017	48.1	56.1	35.8	49.3	51.4	47.0
MW-03S	0.057	161.1	159.7	153.4	157.5	173.7	
average K - deep[1]	0.103	293.1					
average K - shallow	0.049	140.0					

[1] does not include well MW-03D

APPENDIX A
AQTESOLV SOLUTIONS FOR SLUG TESTS



WELL TEST ANALYSIS

Data Set: C:\...\MW-01D-01.aqt
Date: 10/29/08 Time: 17:34:41

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 259.8 ft/day
Le = 19.25 ft

AQUIFER DATA

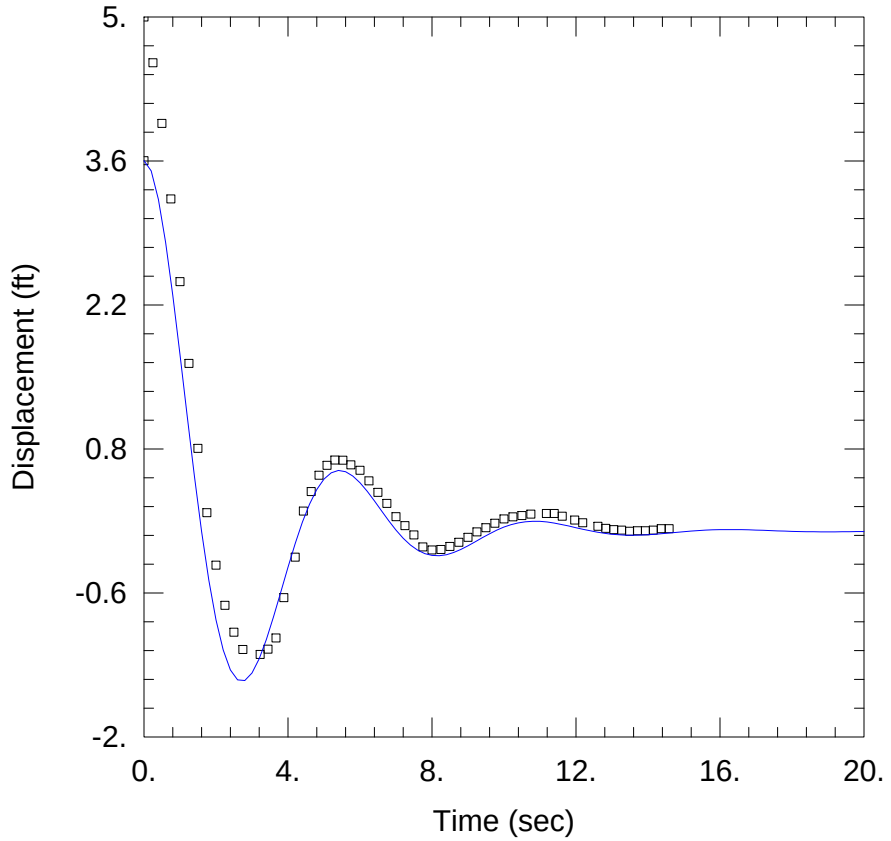
Saturated Thickness: 26.47 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01D)

Initial Displacement: 6.602 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01D-02.aqt
Date: 10/29/08 Time: 17:28:17

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 344.2 ft/day
Le = 22.17 ft

AQUIFER DATA

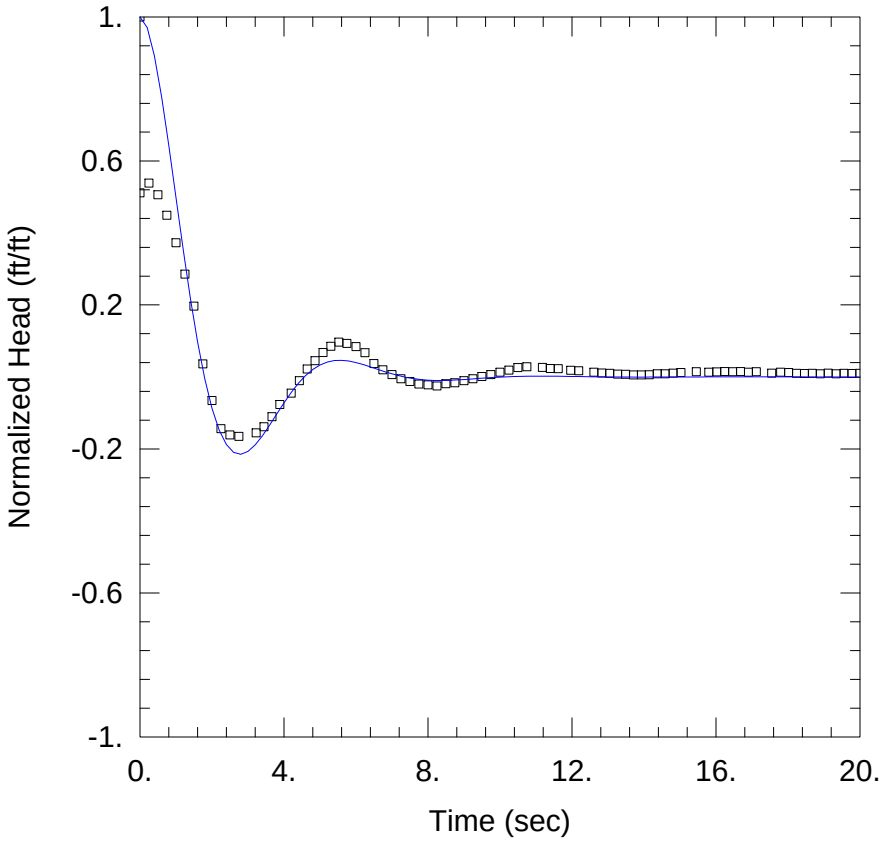
Saturated Thickness: 26.47 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01D)

Initial Displacement: 3.602 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01D-03.aqt
Date: 10/29/08 Time: 17:28:34

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 224.9 ft/day
Le = 20.23 ft

AQUIFER DATA

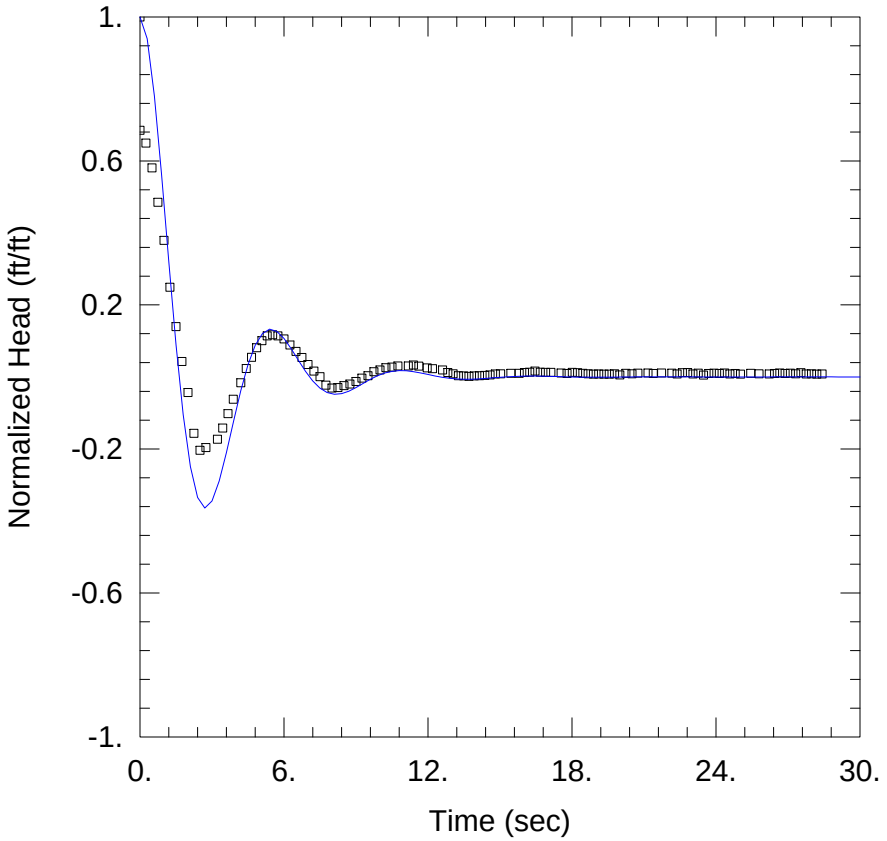
Saturated Thickness: 26.47 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01D)

Initial Displacement: 3.602 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01D-04.aqt
Date: 10/29/08 Time: 17:28:44

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 312.3 ft/day
Le = 21.87 ft

AQUIFER DATA

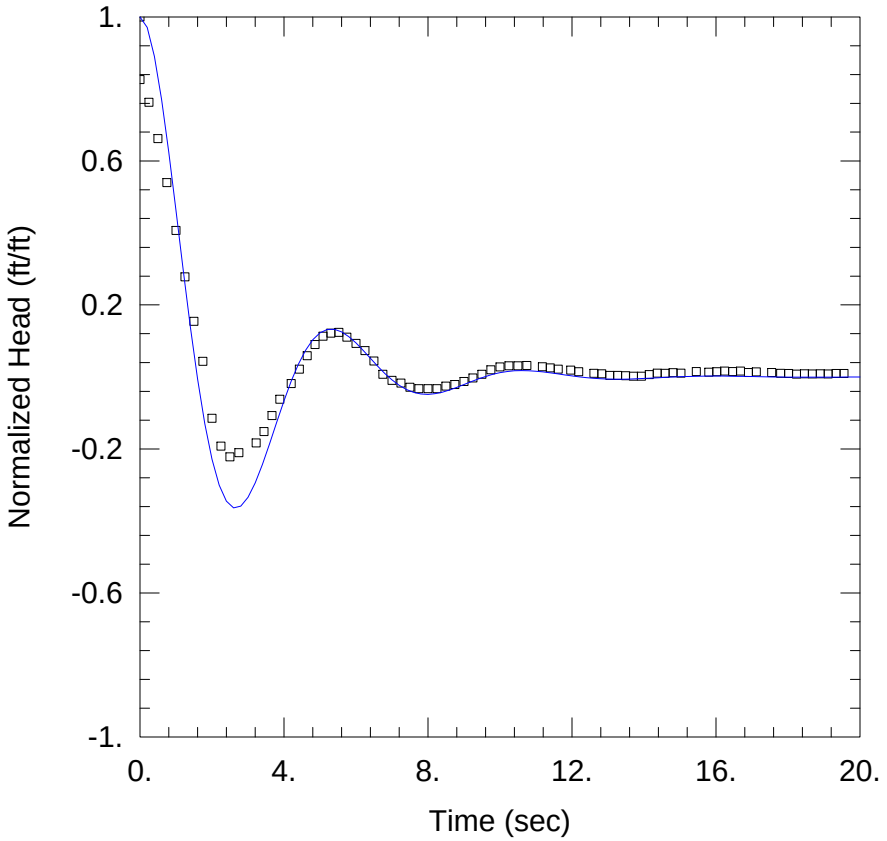
Saturated Thickness: 26.47 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01D)

Initial Displacement: 3.602 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01D-05.aqt
Date: 10/29/08 Time: 17:28:59

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 320.4 ft/day
Le = 20.85 ft

AQUIFER DATA

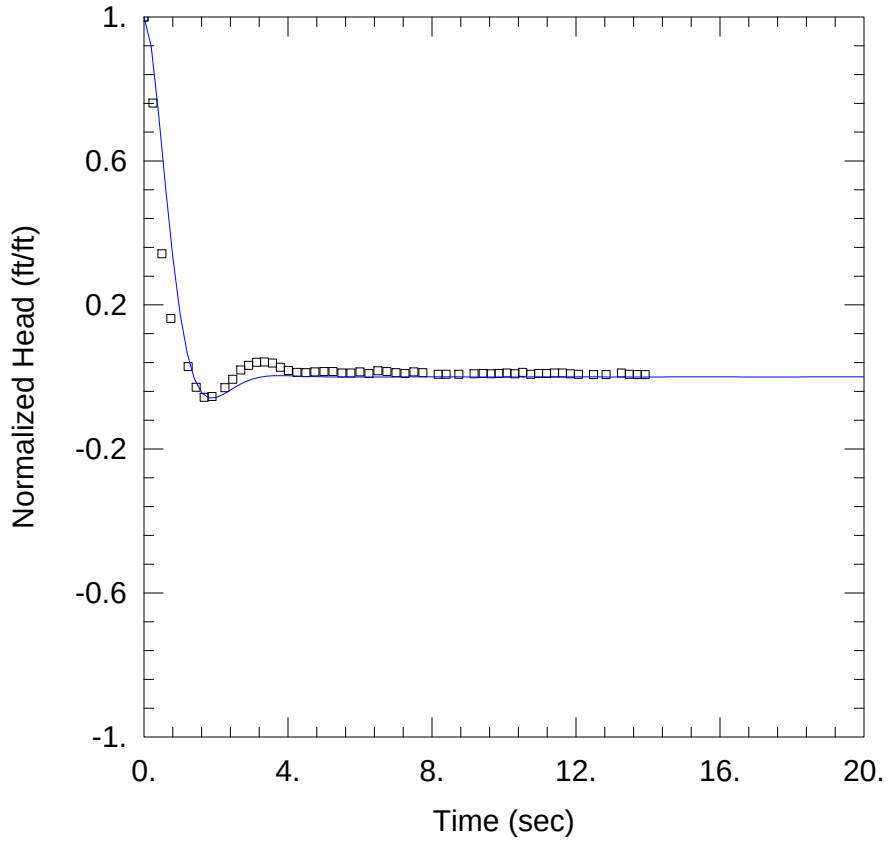
Saturated Thickness: 26.47 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01D)

Initial Displacement: 3.602 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01S-01.aqt
Date: 10/29/08 Time: 17:29:11

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 131.4 ft/day
Le = 6.381 ft

AQUIFER DATA

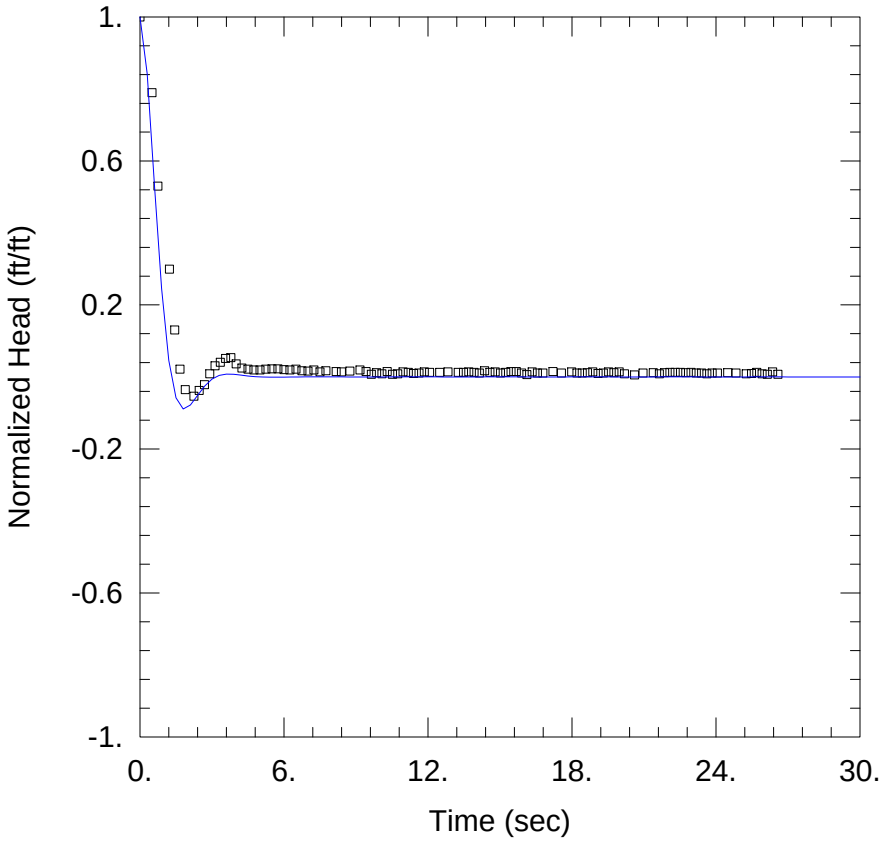
Saturated Thickness: 26.39 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01S)

Initial Displacement: 1.872 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.39 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01S-02.aqt
Date: 10/29/08 Time: 17:29:19

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 138.5 ft/day
Le = 6.926 ft

AQUIFER DATA

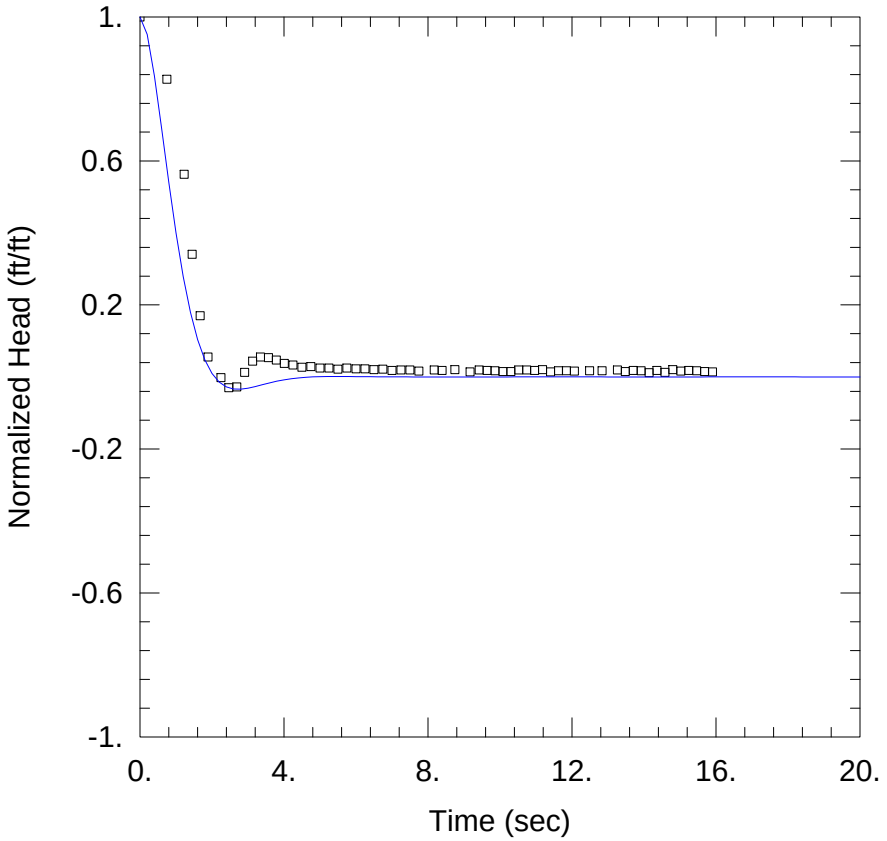
Saturated Thickness: 26.39 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01S)

Initial Displacement: 1.872 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.39 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01S-03.aqt
Date: 10/29/08 Time: 17:29:27

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 90.37 ft/day
Le = 11.18 ft

AQUIFER DATA

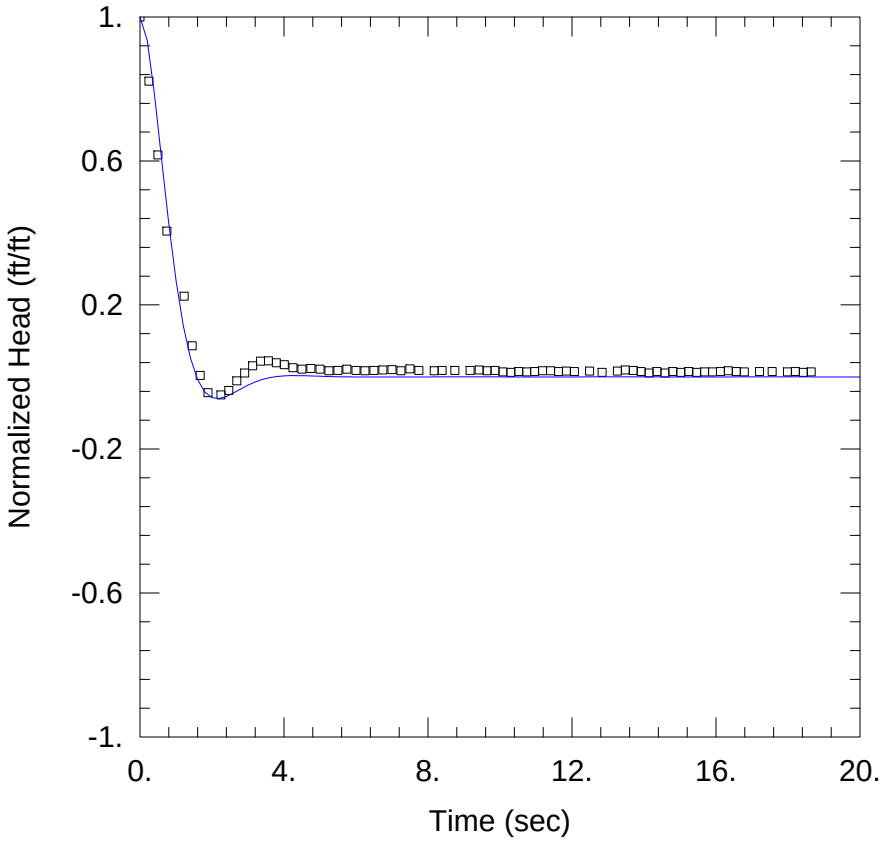
Saturated Thickness: 26.39 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01S)

Initial Displacement: 1.872 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.39 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01S-04.aqt
Date: 10/29/08 Time: 17:29:42

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 115.2 ft/day
Le = 8.331 ft

AQUIFER DATA

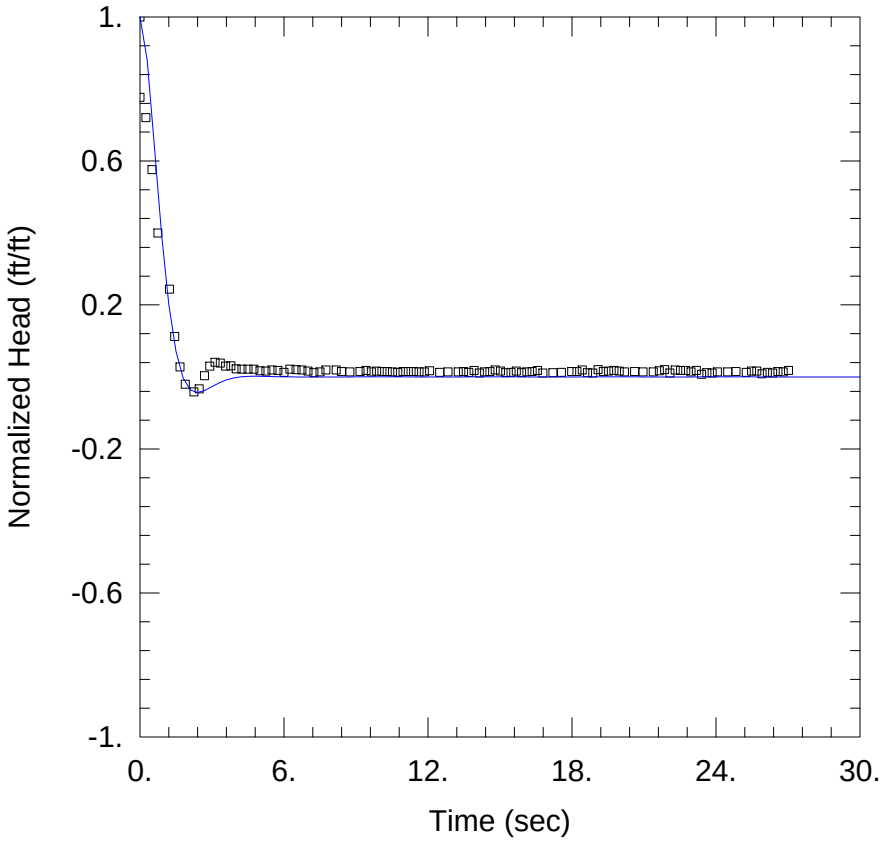
Saturated Thickness: 26.39 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01S)

Initial Displacement: 1.872 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.39 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-01S-05.aqt
Date: 10/29/08 Time: 17:27:50

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 103.2 ft/day
Le = 9.222 ft

AQUIFER DATA

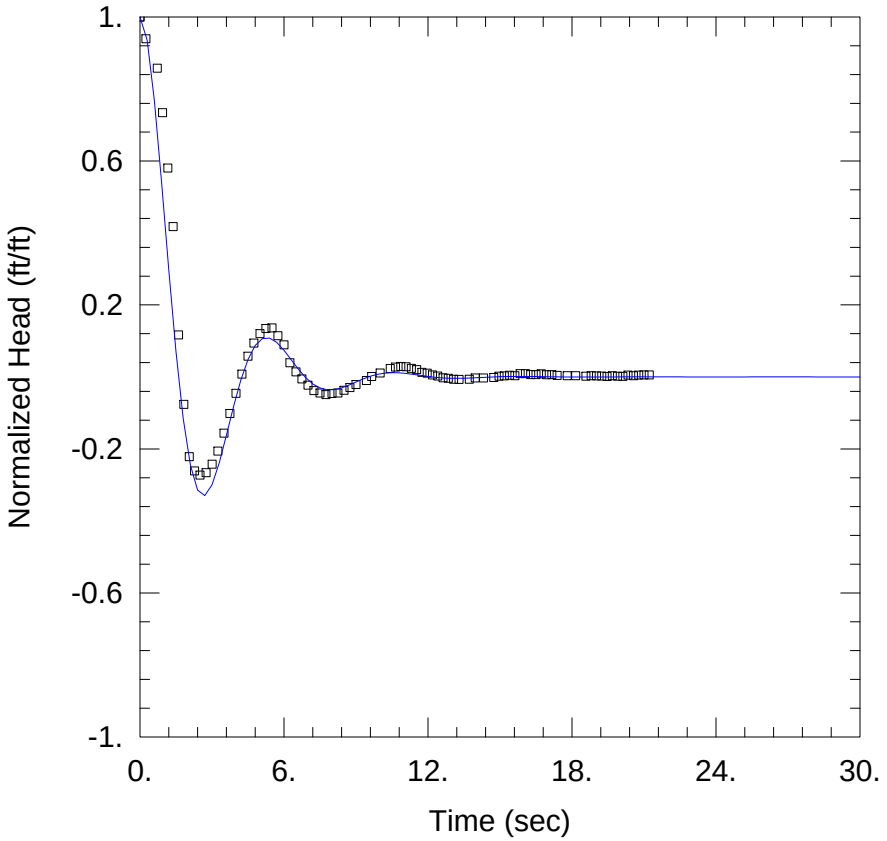
Saturated Thickness: 26.39 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01S)

Initial Displacement: 1.872 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft

Static Water Column Height: 26.39 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-02D-01.aqt
Date: 10/29/08 Time: 17:29:53

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 298.7 ft/day
Le = 20.19 ft

AQUIFER DATA

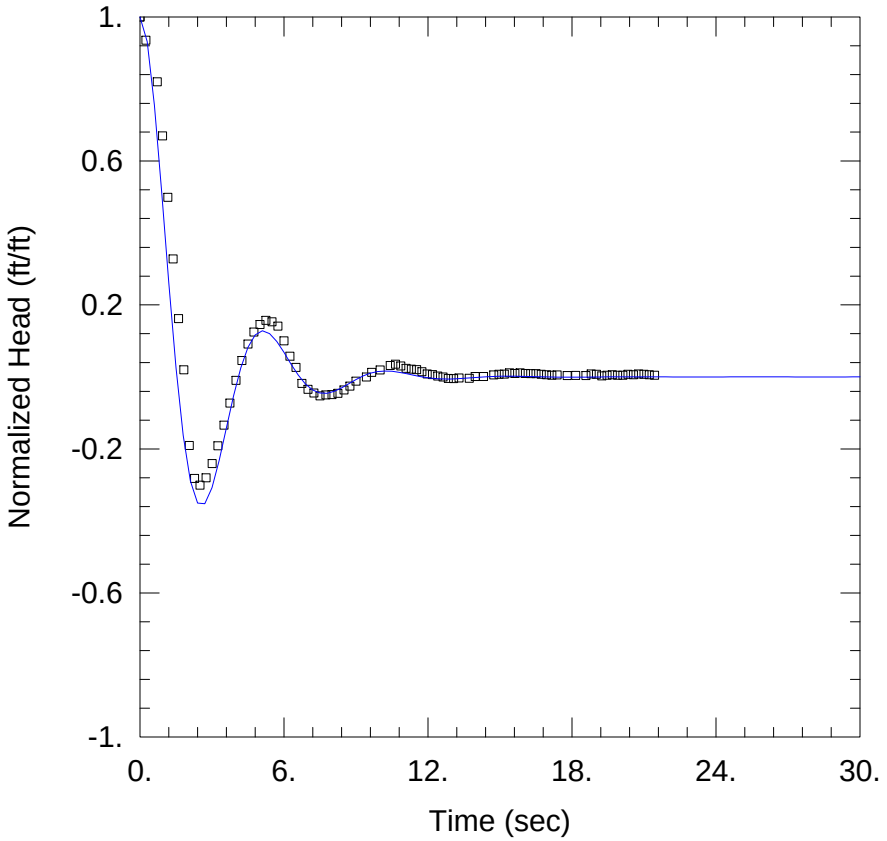
Saturated Thickness: 25.19 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02D)

Initial Displacement: 4.254 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-02D-02.aqt
Date: 10/29/08 Time: 17:30:05

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 327.6 ft/day
Le = 19.28 ft

AQUIFER DATA

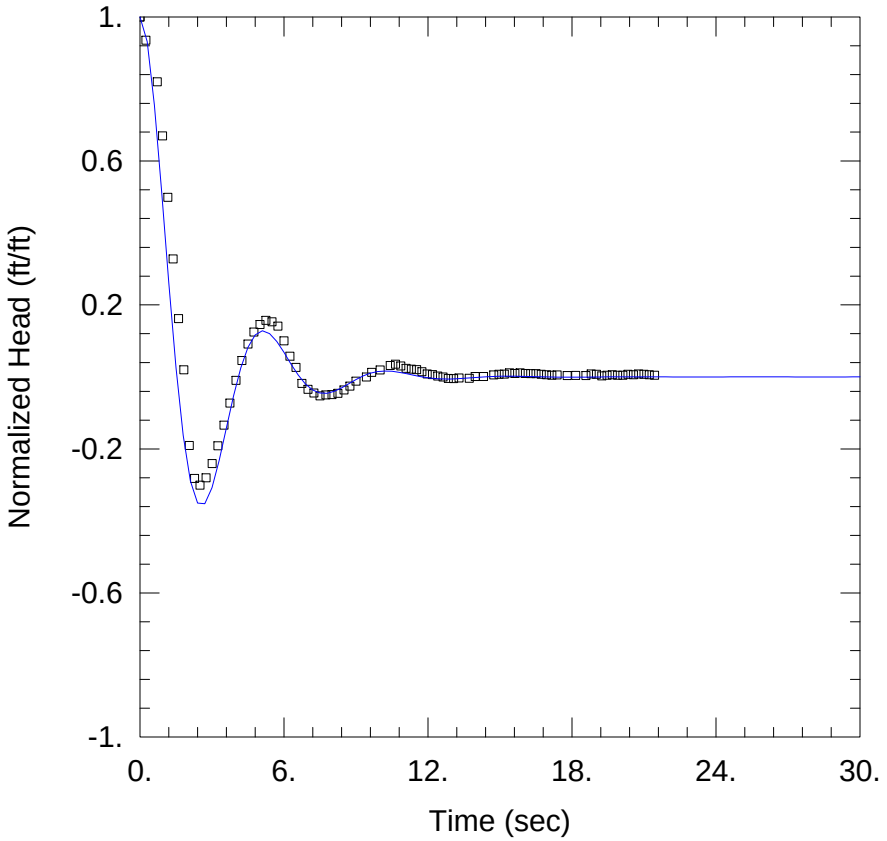
Saturated Thickness: 25.19 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02D)

Initial Displacement: 3.348 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-02D-03.aqt
Date: 10/29/08 Time: 17:30:19

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 327.6 ft/day
Le = 19.28 ft

AQUIFER DATA

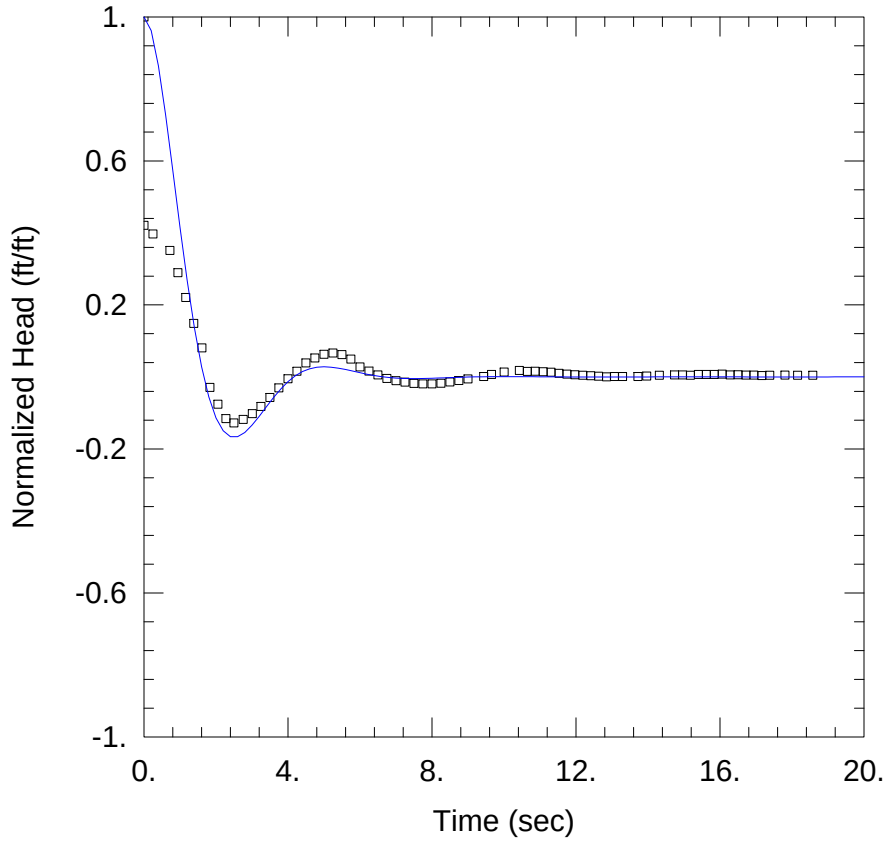
Saturated Thickness: 25.19 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02D)

Initial Displacement: 3.348 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-02D-04.aqt
Date: 10/29/08 Time: 17:30:29

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 229.2 ft/day
Le = 15.4 ft

AQUIFER DATA

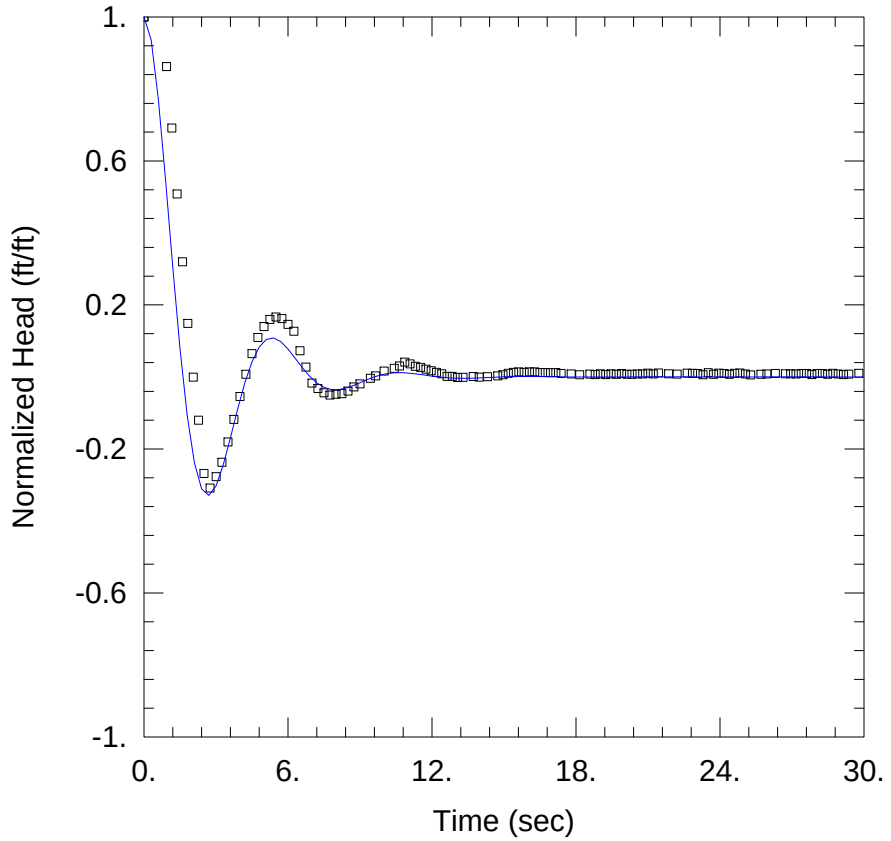
Saturated Thickness: 25.19 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02D)

Initial Displacement: 6.278 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-02D-05.aqt
Date: 10/29/08 Time: 17:30:41

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 295.8 ft/day
Le = 20.51 ft

AQUIFER DATA

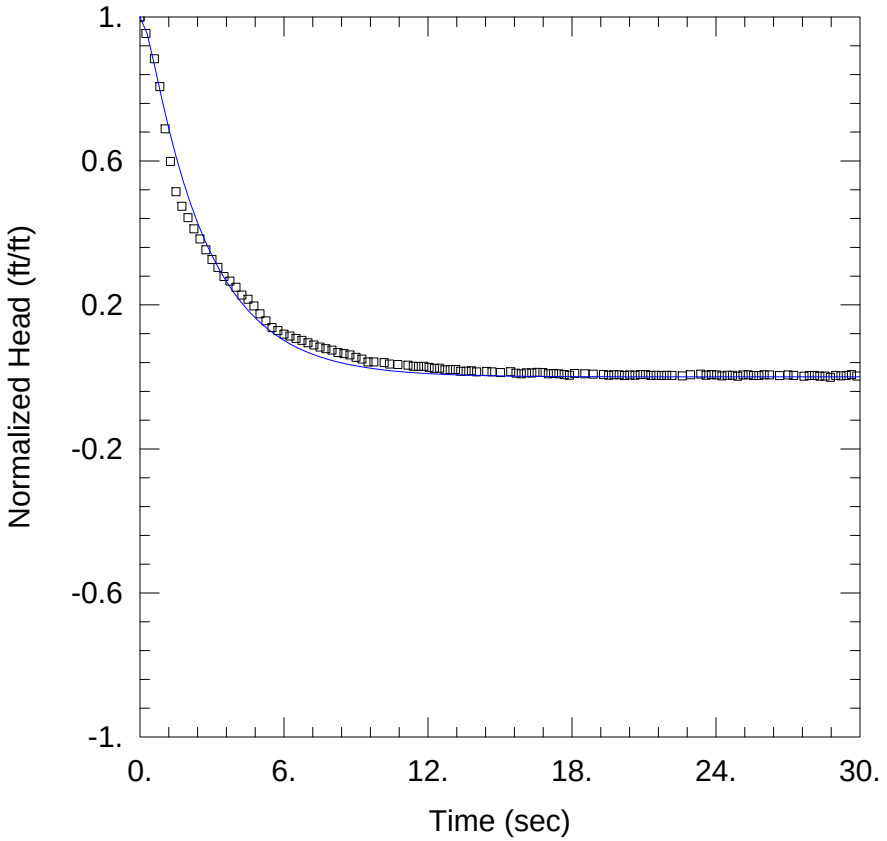
Saturated Thickness: 25.19 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02D)

Initial Displacement: 3.608 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03D-01.aqt
Date: 10/29/08 Time: 17:31:06

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 56.1 ft/day
Le = 20.89 ft

AQUIFER DATA

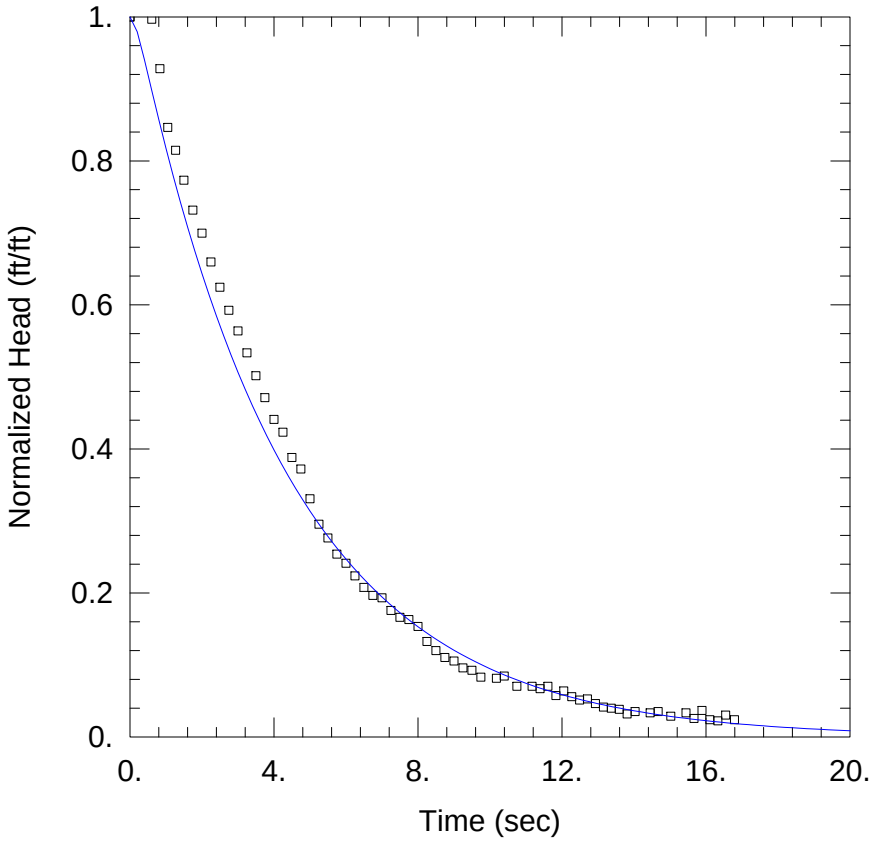
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 3.308 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03D-02.aqt
Date: 10/29/08 Time: 17:31:18

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 35.75 ft/day
Le = 20.89 ft

AQUIFER DATA

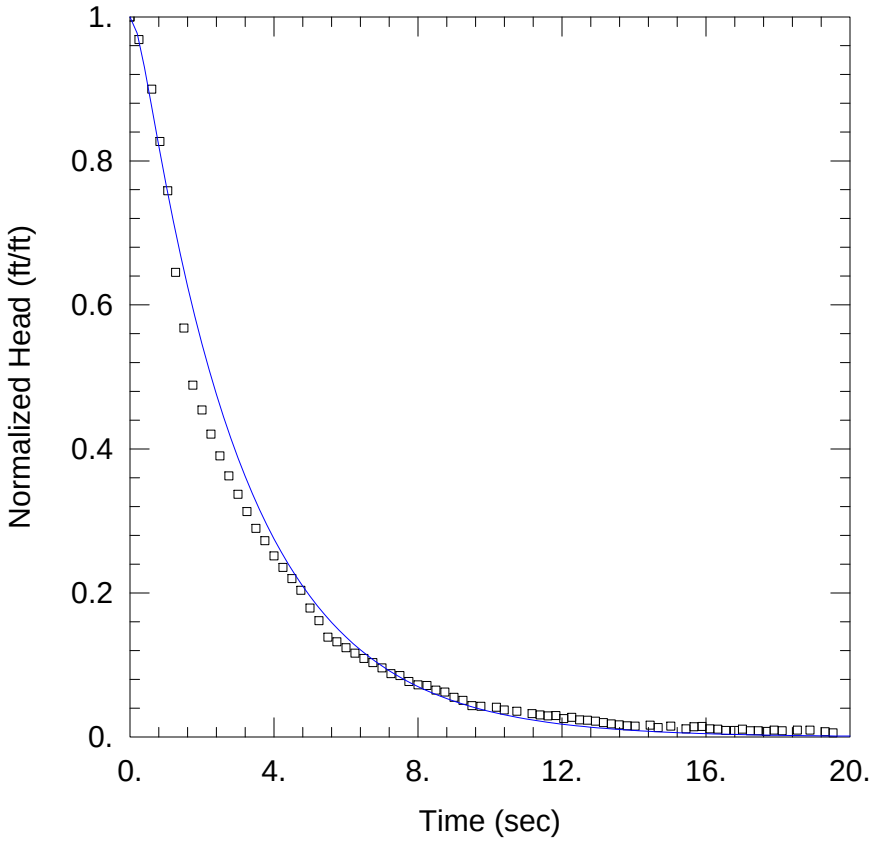
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 1.252 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03D-03.aqt
Date: 10/29/08 Time: 17:31:26

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 49.32 ft/day
Le = 20.89 ft

AQUIFER DATA

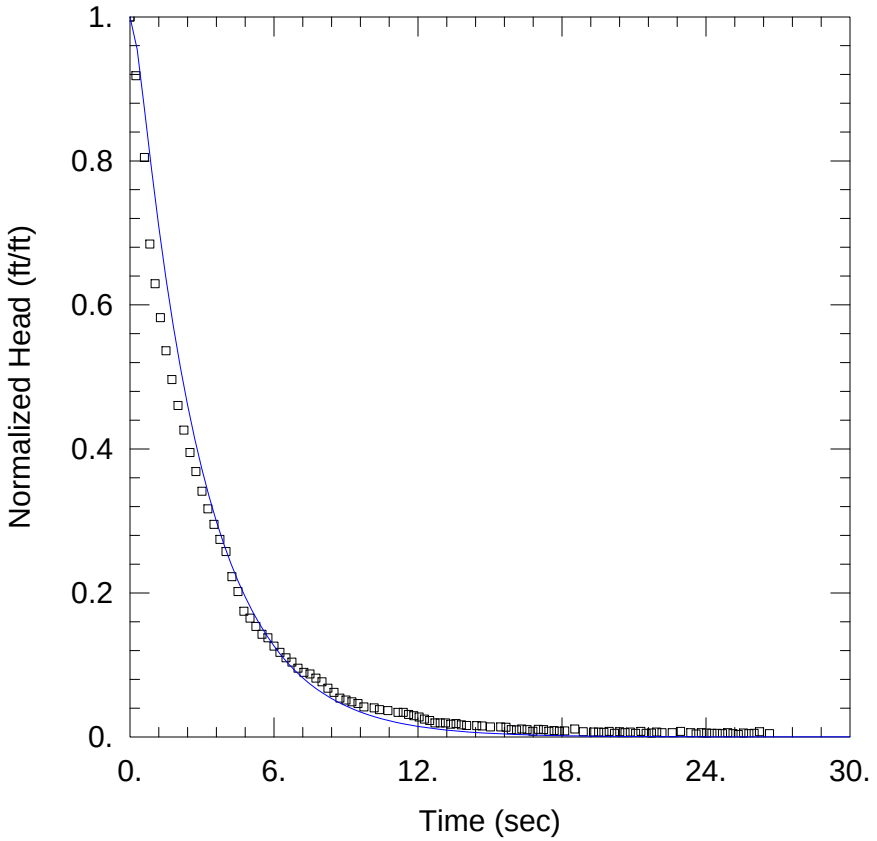
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 4.646 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03D-04.aqt
Date: 10/29/08 Time: 17:31:35

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 51.4 ft/day
Le = 20.89 ft

AQUIFER DATA

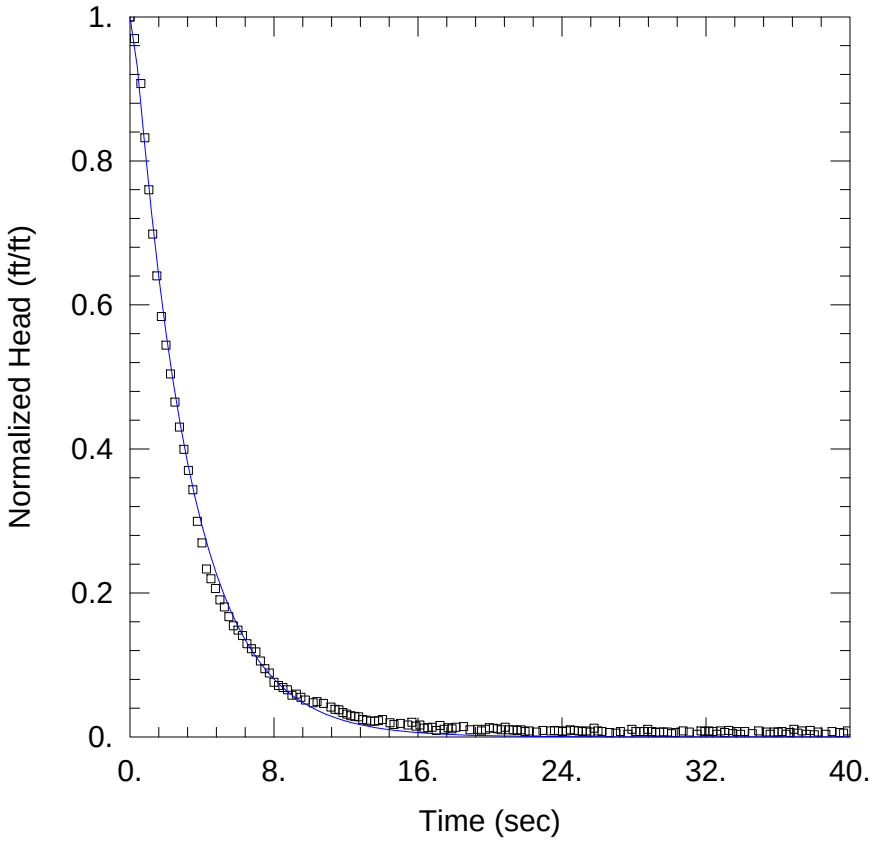
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 4.754 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03D-05.aqt
Date: 10/29/08 Time: 17:31:46

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 47.01 ft/day
Le = 20.89 ft

AQUIFER DATA

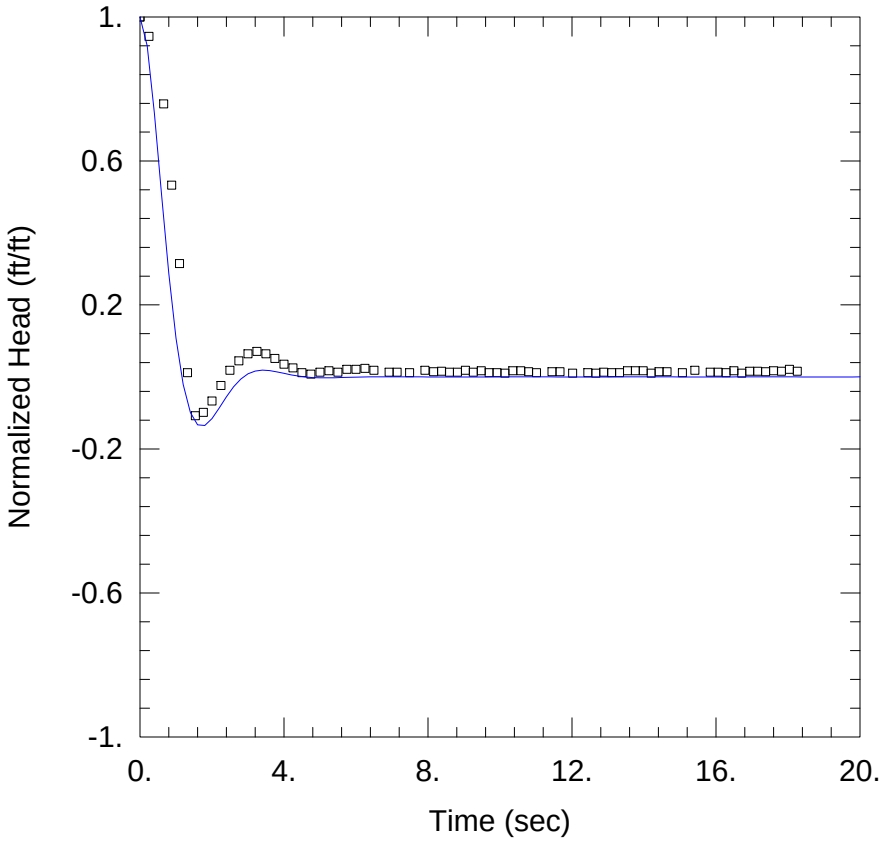
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 2.658 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03S-01.aqt
Date: 10/29/08 Time: 17:31:58

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 159.7 ft/day
Le = 6.799 ft

AQUIFER DATA

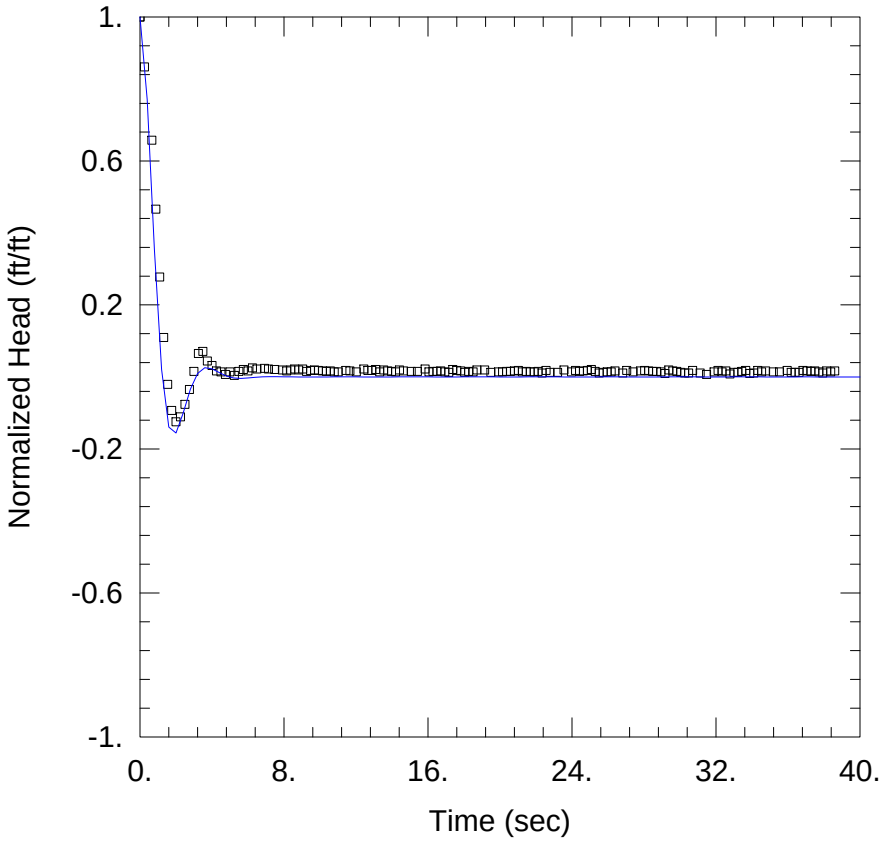
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 1.524 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03S-02.aqt
Date: 10/29/08 Time: 17:32:10

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 153.4 ft/day
Le = 8.357 ft

AQUIFER DATA

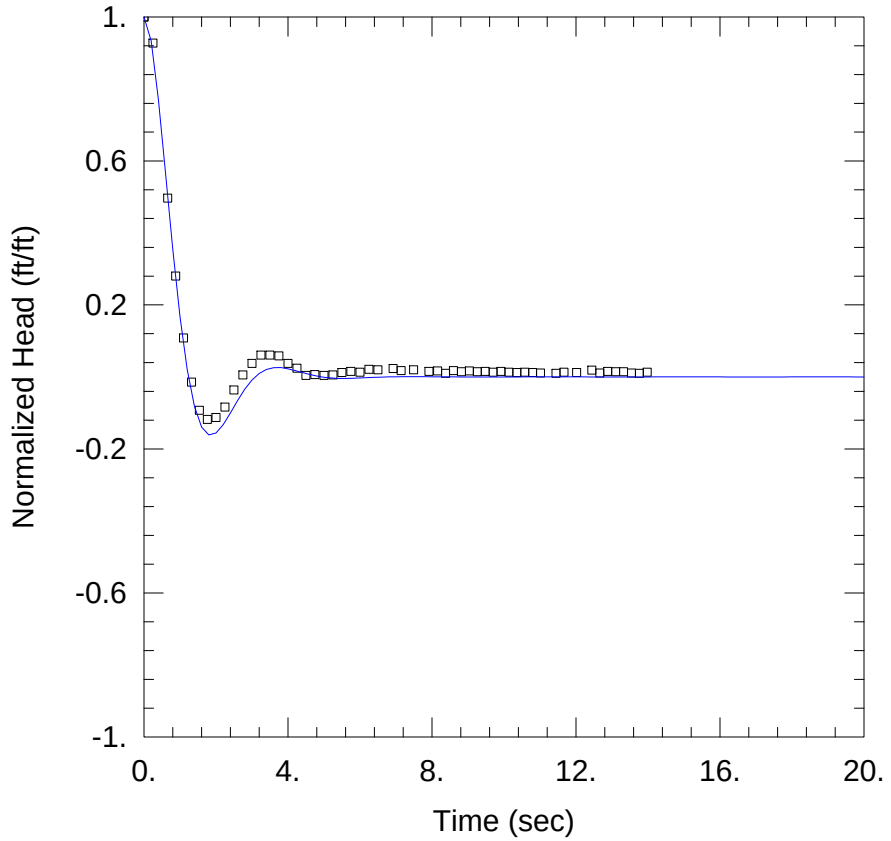
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 1.442 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03S-03.aqt
Date: 10/29/08 Time: 17:32:29

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 153.4 ft/day
Le = 8.357 ft

AQUIFER DATA

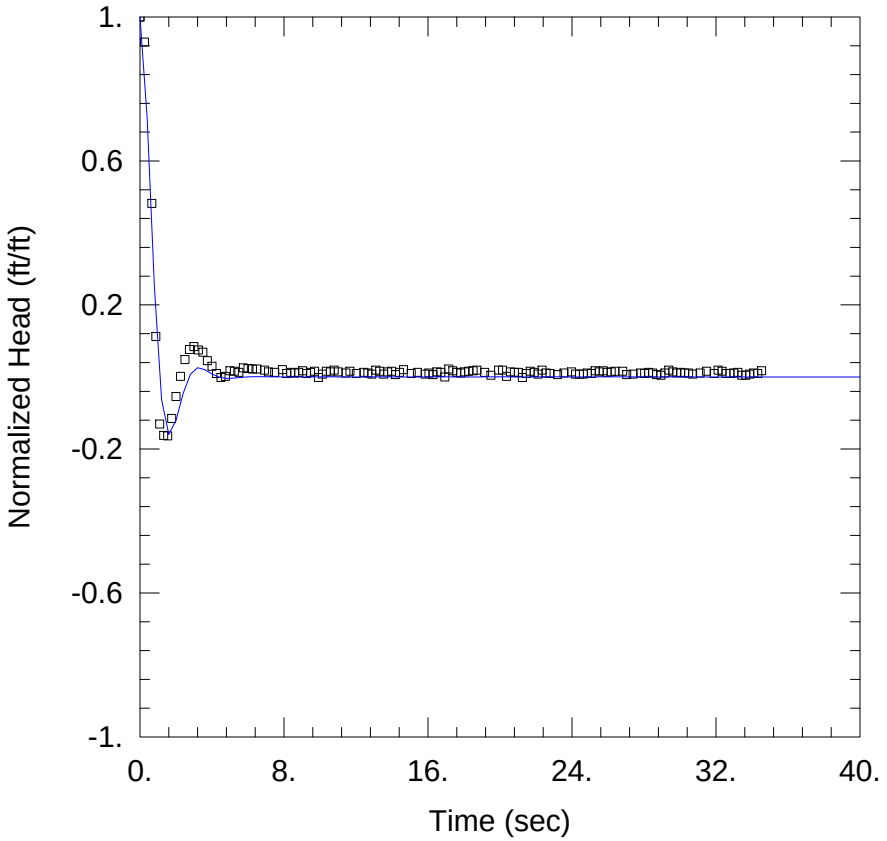
Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 1.812 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft



WELL TEST ANALYSIS

Data Set: C:\...\MW-03S-04.aqt
Date: 10/29/08 Time: 17:27:27

PROJECT INFORMATION

Company: The Forrester Group
Client: Brenntag
Location: Wichita, KS
Test Well: MW-01D
Test Date: 8/29/08

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 173.7 ft/day
Le = 6.485 ft

AQUIFER DATA

Saturated Thickness: 25.74 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 1.282 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft

Static Water Column Height: 25.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

APPENDIX B
ANALYTICAL DATA

REPORT FOR LEVEL 2 DATA VERIFICATION

PROJECT IDENTIFICATION

Project Name:	Brenntag-Wichita, KS
Laboratory:	Pace Analytical, Lanexa, KS
Laboratory Project ID (SDG):	6045865
Sample Collection Dates:	08/29/2008
Sample Analysis Dates:	09/04/2008-09/08/2008
Sample Matrix:	Groundwater
Analytical Fractions:	☒ VOC ☐ SVOC ☐ PEST/PCB ☐ TPH 6010 FE, MN; TOTAL ORGANIC CARBON; METHANE/ETHANE/ETHENE; SULFIDE; SO4, BR300.0; ALKALINITY, HARDNESS
Samples Analyzed:	See attached list
Validated By:	Sara Garretson, Associate (Name, Title) — Sara Garretson 9/24/08 (Signature, Date)

SUMMARY

Item #	Review Item	Acceptable Yes	Acceptable No	Review Tasks
1.	Chain of Custody	X		Confirm relinquish & receipt signatures.
2.	Case Narrative	X		Review for items noted by the laboratory.
3.	Sample Condition	X		Confirm samples in acceptable condition and no discrepancies noted.
4.	Methods Requested	X		Confirm the following: 1. Analyses ordered match workplan. 2. Lab provided all methods ordered.
5.	Analytes Requested	X		Confirm the following: 1. Analytes ordered match workplan. 2. Lab provided all analytes ordered.
6.	Holding Times	X		Confirm laboratory performed extractions and analyses within method- required holding times.
7.	Blanks	X		Confirm the following: 1. No detections in laboratory (method) blanks. 2. No detections in trip blanks (*VOCs only*). 3. No detections in equipment blanks. 4. Equipment/Trip blanks collected at workplan-required frequency.
8.	Surrogates	X		Confirm the following (*organic analyses only*): 1. Surrogates analyzed. 2. Surrogate recovery within QC limits.
9.	MS/MSDs	X		Confirm the following: 1. MS/MSDs at frequency specified in workplan. 2. MS percent recovery within lab specified limits. 3. Organic MSD relative percent difference (RPD) within limits. 4. Inorganic lab replicate RPD within limits.

Item #	Review Item	Acceptable		Review Tasks
		Yes	No	
10.	LCS/LCSD	X		Confirm the following (low-level water analyses only): 1. LCS analyzed. 2. LCS/LCSD recovery within lab specified limits.
11.	Field Duplicates	N/A		Confirm: 1. Field duplicates collected at required frequency. 2. Field duplicate RPD within acceptable limits.

COMMENTS AND REQUIRED ACTIONS Comments are provided for any items that need additional explanation (referenced by item number above).

Item #	Comment	
11.	Duplicate Sample Blind Duplicate	Parent Sample MW-2S

Acceptance criteria were 35% for water samples. Precision was acceptable.

OVERALL ASSESSMENT OF DATA

Item	Acceptable		Comments
	Yes	No	
1. Method Criteria	X		
2. Precision	X		
3. Accuracy	X		
4. Representativeness	X		
5. Comparability	X		
6. Completeness	X		
7. Suitability for Intended Use	X		

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

September 15, 2008

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag
Pace Project No.: 6045865

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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Pace Analytical

Forrester Group
605 N. Boonville
Springfield, MO 65806

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	~~Geotechnical Services, Inc.~~	Report To:	Kris Gamble	Attention:	Kris Gamble
Address:	~~4503 E. 47th St. South~~	Copy To:		Company Name:	Forrester
	~~Wichita, KS 67216~~			Address:	
Email To:	Kris@forrestergroup.com	Purchase Order No.		Pace Quote Reference:	
Phone:	417-864-6444 Fax: 417-864-6445	Client Project ID:	Brenntag	Pace Project Manager:	Angie Brown
Requested Due Date/TAT:	Normal	Container Order Number:		Pace Profile #:	

Regulatory Agency:

State / Location: Kansas

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

Pace Project No./Lab I.D.: 6045065

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH + Zinc Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	6010 Fe, Mn	Total Organic Carbon	Methane/Ethane/Ethene	Sulfide	SO4, Br 300.0	NO2/NO3 300.0	Alkalinity	Hardness			Residual Chlorine (Y/N)	Pace Project No./Lab I.D.	
1	MW-1D	WT	G			8-29-08	1630		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X				[illegible]	001
2	MW-1S	WT	G			↓	1525		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X				↓	002
3	PZ-3 x MSMSD	WT	G			↓	1015		3				3						X												9(O[illegible])	003
4	MW-3D	WT	G			↓	1045		3				3						X												3([illegible])	004
5	MW-3S	WT	G			↓	1110		3				3						X												↓	005
6	MW-2D	WT	G			↓	1420		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X				[illegible]	006
7	MW-2S	WT	G			↓	1215		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X				↓	007
8	Trip Blank	WT	—			✓	—		2				2						X												2([illegible])	009
9	Blind Dup.	WT	G			8-29-08	—		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X				[illegible]	008
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Returning unused containers.	Julie Turner / GSI	09/02/08	945	[signature] / Pace	9/2/08	2230	[illegible]	[illegible]	Y	✓
	[signature]	9/4/08	1700	[signature] Pace	9/5	0905	[illegible]	Y	N	Y

3 coolers.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Julie N. Turner

SIGNATURE of SAMPLER: [signature] DATE Signed: 08-29-08

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

September 15, 2008

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag
Pace Project No.: 6045865

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project:	Brenntag
Pace Project No.:	6045865

Kansas Certification IDs

Utah Certification Number: 9135995665
Texas Certification Number: T104704407-08-TX
Oklahoma Certification Number: 9205/9935
Nevada Certification Number: KS000212008A
Louisiana Certification Number: 03055
Iowa Certification Number: 118
Illinois Certification Number: 001191
Arkansas Certification Number: 05-008-0
A2LA Certification Number: 2456.01
Kansas/NELAP Certification Number: E-10116

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SAMPLE SUMMARY

Project: Brenntag
Pace Project No.: 6045865

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6045865001	**MW-1D**	Water	08/29/08 16:30	09/02/08 22:30
6045865002	**MW-1S**	Water	08/29/08 15:25	09/02/08 22:30
6045865003	**PZ-3**	Water	08/29/08 10:15	09/02/08 22:30
6045865004	**MW-3D**	Water	08/29/08 10:45	09/02/08 22:30
6045865005	**MW-3S**	Water	08/29/08 11:10	09/02/08 22:30
6045865006	**MW-2D**	Water	08/29/08 14:30	09/02/08 22:30
6045865007	**MW-2S**	Water	08/29/08 12:15	09/02/08 22:30
6045865008	**BLIND DUP**	Water	08/29/08 00:00	09/02/08 22:30
6045865009	**TRIP BLANK**	Water	08/29/08 00:00	09/02/08 22:30

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SAMPLE ANALYTE COUNT

Project: Brenntag
Pace Project No.: 6045865

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6045865001	**MW-1D**	EPA 300.0	RAB	4
		EPA 353.2	MLM	1
		EPA 5030B/8260	JTK	70
		EPA 6010	TJG	2
		SM 2320B	RAB	1
		SM 2340C	RAB	1
		SM 4500-S-2 F	RAB	1
		SM 5310C	KMW	1
6045865002	**MW-1S**	EPA 300.0	RAB	4
		EPA 353.2	MLM	1
		EPA 5030B/8260	JTK	70
		EPA 6010	TJG	2
		SM 2320B	RAB	1
		SM 2340C	RAB	1
		SM 4500-S-2 F	RAB	1
		SM 5310C	KMW	1
6045865003	**PZ-3**	EPA 5030B/8260	JTK	70
6045865004	**MW-3D**	EPA 5030B/8260	JTK	70
6045865005	**MW-3S**	EPA 5030B/8260	JTK	70
6045865006	**MW-2D**	EPA 300.0	RAB	4
		EPA 353.2	MLM	1
		EPA 5030B/8260	JTK	70
		EPA 6010	TJG	2
		SM 2320B	RAB	1
		SM 2340C	RAB	1
		SM 4500-S-2 F	RAB	1
		SM 5310C	KMW	1
6045865007	**MW-2S**	EPA 300.0	RAB	4
		EPA 353.2	MLM	1
		EPA 5030B/8260	JTK	70
		EPA 6010	TJG	2
		SM 2320B	RAB	1
		SM 2340C	RAB	1
		SM 4500-S-2 F	RAB	1
		SM 5310C	KMW	1
6045865008	**BLIND DUP**	EPA 300.0	RAB	4
		EPA 353.2	MLM	1

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SAMPLE ANALYTE COUNT

Project: Brenntag
Pace Project No.: 6045865

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 5030B/8260	JTK	70
		EPA 6010	TJG	2
		SM 2320B	RAB	1
		SM 2340C	RAB	1
		SM 4500-S-2 F	RAB	1
		SM 5310C	KMW	1
6045865009	**TRIP BLANK**	EPA 5030B/8260	JTK	70

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(913)599-5665

ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-1D **Lab ID: 6045865001** Collected: 08/29/08 16:30 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1520**	ug/L	50.0	1	09/08/08 12:15	09/09/08 16:57	7439-89-6	
Manganese	**55.4**	ug/L	5.0	1	09/08/08 12:15	09/09/08 16:57	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 13:53	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 13:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 13:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 13:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 13:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 13:53	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 13:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 13:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 13:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 13:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 13:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 13:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 13:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 13:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 13:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 13:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 13:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 13:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 13:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 13:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 13:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 13:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 13:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 13:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 13:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 13:53	107-06-2	
1,2-Dichloroethene (Total)	**23.3**	ug/L	1.0	1		09/07/08 13:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 13:53	75-35-4	
cis-1,2-Dichloroethene	**23.0**	ug/L	1.0	1		09/07/08 13:53	156-59-2	
trans-1,2-Dichloroethene	**0.27J**	ug/L	1.0	1		09/07/08 13:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 13:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 13:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 13:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 13:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 13:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 13:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 13:53	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 13:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 13:53	98-82-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-1D **Lab ID: 6045865001** Collected: 08/29/08 16:30 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 13:53	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 13:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 13:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 13:53	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		09/07/08 13:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 13:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 13:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/07/08 13:53	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 13:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 13:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 13:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 13:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 13:53	79-00-5	
Trichloroethene	**3.1**	ug/L	1.0	1		09/07/08 13:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 13:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 13:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 13:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 13:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 13:53	1330-20-7	
4-Bromofluorobenzene (S)	106	%	85-119	1		09/07/08 13:53	460-00-4	
Dibromofluoromethane (S)	96	%	85-114	1		09/07/08 13:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	81-118	1		09/07/08 13:53	17060-07-0	
Toluene-d8 (S)	101	%	82-114	1		09/07/08 13:53	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 13:53		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**228**	mg/L	20.0	1		09/08/08 19:34		
2340C Hardness, Total	Analytical Method: SM 2340C							
Total Hardness	**261**	mg/L	1.0	1		09/09/08 14:24		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	ND	mg/L	0.50	1		09/05/08 14:07		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	ND	mg/L	1.0	1		09/04/08 13:48	14797-55-8	H3
Nitrite as N	ND	mg/L	1.0	1		09/04/08 13:48	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	1.0	1		09/04/08 13:48	24959-67-9	
Sulfate	**190**	mg/L	20.0	20		09/09/08 15:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-1D **Lab ID: 6045865001** Collected: 08/29/08 16:30 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/05/08 17:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.2**	mg/L	1.0	1		09/08/08 18:49	7440-44-0	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-1S **Lab ID: 6045865002** Collected: 08/29/08 15:25 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**849**	ug/L	50.0	1	09/08/08 12:15	09/09/08 17:00	7439-89-6	
Manganese	**975**	ug/L	5.0	1	09/08/08 12:15	09/09/08 17:00	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 14:08	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 14:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 14:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 14:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 14:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 14:08	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 14:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 14:08	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 14:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 14:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 14:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 14:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 14:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 14:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 14:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 14:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 14:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 14:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 14:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 14:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 14:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 14:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 14:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		09/07/08 14:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 14:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 14:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 14:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 14:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 14:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 14:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 14:08	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 14:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 14:08	98-82-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-1S **Lab ID: 6045865002** Collected: 08/29/08 15:25 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 14:08	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 14:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 14:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 14:08	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		09/07/08 14:08	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 14:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/07/08 14:08	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 14:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 14:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 14:08	79-00-5	
Trichloroethene	**1.0**	ug/L	1.0	1		09/07/08 14:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 14:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 14:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 14:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 14:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 14:08	1330-20-7	
4-Bromofluorobenzene (S)	103	%	85-119	1		09/07/08 14:08	460-00-4	
Dibromofluoromethane (S)	96	%	85-114	1		09/07/08 14:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	81-118	1		09/07/08 14:08	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		09/07/08 14:08	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 14:08		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**270**	mg/L	20.0	1		09/08/08 19:51		
2340C Hardness, Total	Analytical Method: SM 2340C							
Total Hardness	**366**	mg/L	1.0	1		09/09/08 14:24		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	ND	mg/L	0.50	1		09/05/08 14:07		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**6.8**	mg/L	1.0	1		09/04/08 13:36	14797-55-8	H3
Nitrite as N	ND	mg/L	1.0	1		09/04/08 13:36	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	1.0	1		09/04/08 13:36	24959-67-9	
Sulfate	**116**	mg/L	20.0	20		09/09/08 15:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-1S **Lab ID: 6045865002** Collected: 08/29/08 15:25 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.5**	mg/L	0.10	1		09/05/08 17:37		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	1.0	1		09/08/08 19:12	7440-44-0	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: PZ-3 **Lab ID: 6045865003** Collected: 08/29/08 10:15 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 14:23	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 14:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 14:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 14:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 14:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 14:23	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 14:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 14:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 14:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 14:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 14:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 14:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 14:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 14:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 14:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 14:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 14:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 14:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 14:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 14:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 14:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 14:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 14:23	107-06-2	
1,2-Dichloroethene (Total)	**2.4**	ug/L	1.0	1		09/07/08 14:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 14:23	75-35-4	
cis-1,2-Dichloroethene	**2.4**	ug/L	1.0	1		09/07/08 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 14:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 14:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 14:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 14:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 14:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 14:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 14:23	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 14:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 14:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 14:23	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 14:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 14:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 14:23	1634-04-4	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: PZ-3 **Lab ID: 6045865003** Collected: 08/29/08 10:15 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		09/07/08 14:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 14:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 14:23	79-34-5	
Tetrachloroethene	**20.9**	ug/L	1.0	1		09/07/08 14:23	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 14:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 14:23	79-00-5	
Trichloroethene	**1.9**	ug/L	1.0	1		09/07/08 14:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 14:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 14:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 14:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 14:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 14:23	1330-20-7	
4-Bromofluorobenzene (S)	104	%	85-119	1		09/07/08 14:23	460-00-4	
Dibromofluoromethane (S)	96	%	85-114	1		09/07/08 14:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	81-118	1		09/07/08 14:23	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		09/07/08 14:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 14:23		

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-3D **Lab ID: 6045865004** Collected: 08/29/08 10:45 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 15:09	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 15:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 15:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 15:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 15:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 15:09	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 15:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 15:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 15:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 15:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 15:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 15:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 15:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 15:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 15:09	96-12-8	
Dibromochloromethane	**1.8**	ug/L	1.0	1		09/07/08 15:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 15:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 15:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 15:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:09	107-06-2	
1,2-Dichloroethene (Total)	**62.3**	ug/L	1.0	1		09/07/08 15:09	540-59-0	
1,1-Dichloroethene	**1.6**	ug/L	1.0	1		09/07/08 15:09	75-35-4	
cis-1,2-Dichloroethene	**61.1**	ug/L	1.0	1		09/07/08 15:09	156-59-2	
trans-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		09/07/08 15:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 15:09	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 15:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 15:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 15:09	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 15:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 15:09	1634-04-4	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-3D **Lab ID: 6045865004** Collected: 08/29/08 10:45 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		09/07/08 15:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/07/08 15:09	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 15:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:09	79-00-5	
Trichloroethene	**9.5**	ug/L	1.0	1		09/07/08 15:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 15:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 15:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:09	108-67-8	
Vinyl chloride	**1.7**	ug/L	1.0	1		09/07/08 15:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 15:09	1330-20-7	
4-Bromofluorobenzene (S)	103	%	85-119	1		09/07/08 15:09	460-00-4	
Dibromofluoromethane (S)	97	%	85-114	1		09/07/08 15:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	81-118	1		09/07/08 15:09	17060-07-0	
Toluene-d8 (S)	100	%	82-114	1		09/07/08 15:09	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 15:09		

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-3S **Lab ID: 6045865005** Collected: 08/29/08 11:10 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 15:24	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 15:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 15:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 15:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 15:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 15:24	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 15:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 15:24	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 15:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 15:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 15:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 15:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 15:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 15:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 15:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 15:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 15:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 15:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 15:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:24	107-06-2	
1,2-Dichloroethene (Total)	**5.8**	ug/L	1.0	1		09/07/08 15:24	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 15:24	75-35-4	
cis-1,2-Dichloroethene	**5.8**	ug/L	1.0	1		09/07/08 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 15:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 15:24	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 15:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 15:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 15:24	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 15:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 15:24	1634-04-4	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-3S **Lab ID: 6045865005** Collected: 08/29/08 11:10 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		09/07/08 15:24	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:24	79-34-5	
Tetrachloroethene	**11.9**	ug/L	1.0	1		09/07/08 15:24	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 15:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:24	79-00-5	
Trichloroethene	**16.8**	ug/L	1.0	1		09/07/08 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 15:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 15:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 15:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 15:24	1330-20-7	
4-Bromofluorobenzene (S)	105	%	85-119	1		09/07/08 15:24	460-00-4	
Dibromofluoromethane (S)	96	%	85-114	1		09/07/08 15:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	81-118	1		09/07/08 15:24	17060-07-0	
Toluene-d8 (S)	101	%	82-114	1		09/07/08 15:24	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 15:24		

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-2D **Lab ID: 6045865006** Collected: 08/29/08 14:30 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**274**	ug/L	50.0	1	09/08/08 12:15	09/09/08 17:04	7439-89-6	
Manganese	**85.4**	ug/L	5.0	1	09/08/08 12:15	09/09/08 17:04	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 15:39	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 15:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 15:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 15:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 15:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 15:39	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 15:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 15:39	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 15:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 15:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 15:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 15:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 15:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 15:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 15:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 15:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 15:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 15:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 15:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:39	107-06-2	
1,2-Dichloroethene (Total)	**42.1**	ug/L	1.0	1		09/07/08 15:39	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 15:39	75-35-4	
cis-1,2-Dichloroethene	**41.4**	ug/L	1.0	1		09/07/08 15:39	156-59-2	
trans-1,2-Dichloroethene	**0.73J**	ug/L	1.0	1		09/07/08 15:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 15:39	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 15:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 15:39	98-82-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-2D **Lab ID: 6045865006** Collected: 08/29/08 14:30 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 15:39	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 15:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 15:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 15:39	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		09/07/08 15:39	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 15:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/07/08 15:39	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 15:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:39	79-00-5	
Trichloroethene	**15.1**	ug/L	1.0	1		09/07/08 15:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 15:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 15:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 15:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 15:39	1330-20-7	
4-Bromofluorobenzene (S)	104	%	85-119	1		09/07/08 15:39	460-00-4	
Dibromofluoromethane (S)	96	%	85-114	1		09/07/08 15:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	81-118	1		09/07/08 15:39	17060-07-0	
Toluene-d8 (S)	101	%	82-114	1		09/07/08 15:39	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 15:39		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**220**	mg/L	20.0	1		09/08/08 19:55		
2340C Hardness, Total	Analytical Method: SM 2340C							
Total Hardness	**325**	mg/L	1.0	1		09/09/08 14:24		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	ND	mg/L	0.50	1		09/05/08 14:07		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	ND	mg/L	1.0	1		09/04/08 13:24	14797-55-8	H3
Nitrite as N	ND	mg/L	1.0	1		09/04/08 13:24	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	1.0	1		09/04/08 13:24	24959-67-9	
Sulfate	**196**	mg/L	20.0	20		09/09/08 15:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-2D **Lab ID: 6045865006** Collected: 08/29/08 14:30 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		09/06/08 12:34		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.8**	mg/L	1.0	1		09/08/08 19:24	7440-44-0	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-2S **Lab ID: 6045865007** Collected: 08/29/08 12:15 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**2310**	ug/L	50.0	1	09/08/08 12:15	09/09/08 17:08	7439-89-6	
Manganese	**2940**	ug/L	5.0	1	09/08/08 12:15	09/09/08 17:08	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 15:54	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 15:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 15:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 15:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 15:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 15:54	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 15:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 15:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 15:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 15:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 15:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 15:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 15:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 15:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 15:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 15:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 15:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 15:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 15:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 15:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 15:54	107-06-2	
1,2-Dichloroethene (Total)	**2.7**	ug/L	1.0	1		09/07/08 15:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 15:54	75-35-4	
cis-1,2-Dichloroethene	**2.7**	ug/L	1.0	1		09/07/08 15:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 15:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 15:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 15:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 15:54	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 15:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 15:54	98-82-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-2S **Lab ID: 6045865007** Collected: 08/29/08 12:15 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 15:54	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 15:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 15:54	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		09/07/08 15:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 15:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 15:54	79-34-5	
Tetrachloroethene	**19.2**	ug/L	1.0	1		09/07/08 15:54	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 15:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 15:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 15:54	79-00-5	
Trichloroethene	**3.7**	ug/L	1.0	1		09/07/08 15:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 15:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 15:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 15:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 15:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 15:54	1330-20-7	
4-Bromofluorobenzene (S)	103	%	85-119	1		09/07/08 15:54	460-00-4	
Dibromofluoromethane (S)	97	%	85-114	1		09/07/08 15:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	81-118	1		09/07/08 15:54	17060-07-0	
Toluene-d8 (S)	101	%	82-114	1		09/07/08 15:54	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 15:54		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**252**	mg/L	20.0	1		09/08/08 20:00		
2340C Hardness, Total	Analytical Method: SM 2340C							
Total Hardness	**418**	mg/L	1.0	1		09/09/08 14:24		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	ND	mg/L	0.50	1		09/05/08 14:07		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**13.8**	mg/L	1.0	1		09/04/08 13:13	14797-55-8	H3
Nitrite as N	ND	mg/L	1.0	1		09/04/08 13:13	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	1.0	1		09/04/08 13:13	24959-67-9	
Sulfate	**132**	mg/L	20.0	20		09/09/08 16:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: MW-2S **Lab ID: 6045865007** Collected: 08/29/08 12:15 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**6.0**	mg/L	0.20	1		09/06/08 12:35		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.0**	mg/L	1.0	1		09/08/08 19:51	7440-44-0	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: BLIND DUP **Lab ID: 6045865008** Collected: 08/29/08 00:00 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**669**	ug/L	50.0	1	09/08/08 12:15	09/09/08 17:11	7439-89-6	
Manganese	**1670**	ug/L	5.0	1	09/08/08 12:15	09/09/08 17:11	7439-96-5	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 16:09	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 16:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 16:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 16:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 16:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 16:09	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 16:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 16:09	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 16:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 16:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 16:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 16:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 16:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 16:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 16:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 16:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 16:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 16:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 16:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 16:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 16:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 16:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 16:09	107-06-2	
1,2-Dichloroethene (Total)	**1.7**	ug/L	1.0	1		09/07/08 16:09	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 16:09	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		09/07/08 16:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 16:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 16:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 16:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 16:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 16:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 16:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 16:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 16:09	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 16:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 16:09	98-82-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: BLIND DUP **Lab ID: 6045865008** Collected: 08/29/08 00:00 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 16:09	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 16:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 16:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 16:09	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		09/07/08 16:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 16:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 16:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 16:09	79-34-5	
Tetrachloroethene	**16.7**	ug/L	1.0	1		09/07/08 16:09	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 16:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 16:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 16:09	79-00-5	
Trichloroethene	**2.5**	ug/L	1.0	1		09/07/08 16:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 16:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 16:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 16:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 16:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 16:09	1330-20-7	
4-Bromofluorobenzene (S)	105	%	85-119	1		09/07/08 16:09	460-00-4	
Dibromofluoromethane (S)	96	%	85-114	1		09/07/08 16:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	81-118	1		09/07/08 16:09	17060-07-0	
Toluene-d8 (S)	101	%	82-114	1		09/07/08 16:09	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 16:09		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity, Total as CaCO3	**246**	mg/L	20.0	1		09/08/08 20:05		
2340C Hardness, Total	Analytical Method: SM 2340C							
Total Hardness	**386**	mg/L	1.0	1		09/09/08 14:24		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F							
Sulfide	**0.82**	mg/L	0.50	1		09/05/08 14:07		
300.0 IC Anions	Analytical Method: EPA 300.0							
Nitrate as N	**11.5**	mg/L	1.0	1		09/04/08 12:37	14797-55-8	H3
Nitrite as N	ND	mg/L	1.0	1		09/04/08 12:37	14797-65-0	H3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	ND	mg/L	1.0	1		09/04/08 12:37	24959-67-9	
Sulfate	**130**	mg/L	20.0	20		09/09/08 16:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: BLIND DUP **Lab ID: 6045865008** Collected: 08/29/08 00:00 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**6.0**	mg/L	0.20	1		09/06/08 12:37		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	1.0	1		09/08/08 20:02	7440-44-0	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: TRIP BLANK **Lab ID: 6045865009** Collected: 08/29/08 00:00 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		09/07/08 16:24	67-64-1	
Benzene	ND	ug/L	1.0	1		09/07/08 16:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/07/08 16:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/07/08 16:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/07/08 16:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/07/08 16:24	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/07/08 16:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/07/08 16:24	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		09/07/08 16:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/07/08 16:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/07/08 16:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/07/08 16:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/07/08 16:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/07/08 16:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 16:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/07/08 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		09/07/08 16:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/07/08 16:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/07/08 16:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/07/08 16:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/07/08 16:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/07/08 16:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/07/08 16:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		09/07/08 16:24	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/07/08 16:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 16:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/07/08 16:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 16:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/07/08 16:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/07/08 16:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/07/08 16:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 16:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/07/08 16:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/07/08 16:24	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		09/07/08 16:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/07/08 16:24	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/07/08 16:24	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		09/07/08 16:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/07/08 16:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/07/08 16:24	1634-04-4	

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ANALYTICAL RESULTS

Project: Brenntag
Pace Project No.: 6045865

Sample: TRIP BLANK **Lab ID: 6045865009** Collected: 08/29/08 00:00 Received: 09/02/08 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		09/07/08 16:24	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	103-65-1	
Styrene	ND	ug/L	1.0	1		09/07/08 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 16:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/07/08 16:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/07/08 16:24	127-18-4	
Toluene	ND	ug/L	1.0	1		09/07/08 16:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/07/08 16:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/07/08 16:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/07/08 16:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/07/08 16:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/07/08 16:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		09/07/08 16:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/07/08 16:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/07/08 16:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/07/08 16:24	1330-20-7	
4-Bromofluorobenzene (S)	104	%	85-119	1		09/07/08 16:24	460-00-4	
Dibromofluoromethane (S)	97	%	85-114	1		09/07/08 16:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	81-118	1		09/07/08 16:24	17060-07-0	
Toluene-d8 (S)	99	%	82-114	1		09/07/08 16:24	2037-26-5	
Preservation pH	**1.0**		0.10	1		09/07/08 16:24		

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WET/13876 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 372547 Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/08/08 17:45	

LABORATORY CONTROL SAMPLE: 372548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	90-110	

SAMPLE DUPLICATE: 372549

Parameter	Units	6045859004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	444	450	1	10	

SAMPLE DUPLICATE: 372904

Parameter	Units	6045859005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	447	444	1	10	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WETA/7824 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 372878 Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	1.0	09/04/08 12:14	
Nitrite as N	mg/L	ND	1.0	09/04/08 12:14	

LABORATORY CONTROL SAMPLE: 372879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	5	4.7	95	90-110	
Nitrite as N	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 372880 372881

Parameter	Units	6045877001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	ND	5	5	5.0	5.1	82	84	73-114	2	5	
Nitrite as N	mg/L	ND	5	5	5.0	5.1	100	101	73-131	1	7	

SAMPLE DUPLICATE: 373091

Parameter	Units	6045898004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate as N	mg/L	16.3	16.6	2	14	
Nitrite as N	mg/L	ND	ND	0	11	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WET/13906 Analysis Method: SM 4500-S-2 F
QC Batch Method: SM 4500-S-2 F Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 373073 Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.50	09/05/08 14:07	

LABORATORY CONTROL SAMPLE: 373074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	10	9.9	99	80-120	

MATRIX SPIKE SAMPLE: 373075

Parameter	Units	6045865001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	20	19.4	97	75-125	

SAMPLE DUPLICATE: 373076

Parameter	Units	6045865002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND	0	15	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WETA/7836 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 373716 | Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	09/05/08 17:31	

LABORATORY CONTROL SAMPLE: 373717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 373718

Parameter	Units	6045956001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	9.5	10	17.4	79	90-110	M0

MATRIX SPIKE SAMPLE: 373720

Parameter	Units	20635771 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	48.6	40	73.4	62	90-110	M0

SAMPLE DUPLICATE: 373719

Parameter	Units	6045980001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.20	0.22	10	12	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: MSV/16615 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 6045865001, 6045865002, 6045865003, 6045865004, 6045865005, 6045865006, 6045865007, 6045865008, 6045865009

METHOD BLANK: 374346 Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865003, 6045865004, 6045865005, 6045865006, 6045865007, 6045865008, 6045865009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/07/08 11:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/07/08 11:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/07/08 11:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/07/08 11:52	
1,1-Dichloroethane	ug/L	ND	1.0	09/07/08 11:52	
1,1-Dichloroethene	ug/L	ND	1.0	09/07/08 11:52	
1,1-Dichloropropene	ug/L	ND	1.0	09/07/08 11:52	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/07/08 11:52	
1,2,3-Trichloropropane	ug/L	ND	2.5	09/07/08 11:52	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/07/08 11:52	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/07/08 11:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	09/07/08 11:52	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/07/08 11:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/07/08 11:52	
1,2-Dichloroethane	ug/L	ND	1.0	09/07/08 11:52	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	09/07/08 11:52	
1,2-Dichloropropane	ug/L	ND	1.0	09/07/08 11:52	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/07/08 11:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/07/08 11:52	
1,3-Dichloropropane	ug/L	ND	1.0	09/07/08 11:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/07/08 11:52	
2,2-Dichloropropane	ug/L	ND	1.0	09/07/08 11:52	
2-Butanone (MEK)	ug/L	ND	10.0	09/07/08 11:52	
2-Chlorotoluene	ug/L	ND	1.0	09/07/08 11:52	
2-Hexanone	ug/L	ND	10.0	09/07/08 11:52	
4-Chlorotoluene	ug/L	ND	1.0	09/07/08 11:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/07/08 11:52	
Acetone	ug/L	ND	10.0	09/07/08 11:52	
Benzene	ug/L	ND	1.0	09/07/08 11:52	
Bromobenzene	ug/L	ND	1.0	09/07/08 11:52	
Bromochloromethane	ug/L	ND	1.0	09/07/08 11:52	
Bromodichloromethane	ug/L	ND	1.0	09/07/08 11:52	
Bromoform	ug/L	ND	1.0	09/07/08 11:52	
Bromomethane	ug/L	ND	1.0	09/07/08 11:52	
Carbon disulfide	ug/L	ND	5.0	09/07/08 11:52	
Carbon tetrachloride	ug/L	ND	1.0	09/07/08 11:52	
Chlorobenzene	ug/L	ND	1.0	09/07/08 11:52	
Chloroethane	ug/L	ND	1.0	09/07/08 11:52	
Chloroform	ug/L	ND	1.0	09/07/08 11:52	
Chloromethane	ug/L	ND	1.0	09/07/08 11:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/07/08 11:52	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

METHOD BLANK: 374346 Matrix: Water

Associated Lab Samples: 6045865001, 6045865002, 6045865003, 6045865004, 6045865005, 6045865006, 6045865007, 6045865008, 6045865009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/07/08 11:52	
Dibromochloromethane	ug/L	ND	1.0	09/07/08 11:52	
Dibromomethane	ug/L	ND	1.0	09/07/08 11:52	
Dichlorodifluoromethane	ug/L	ND	1.0	09/07/08 11:52	
Ethylbenzene	ug/L	ND	1.0	09/07/08 11:52	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/07/08 11:52	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/07/08 11:52	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/07/08 11:52	
Methylene chloride	ug/L	ND	1.0	09/07/08 11:52	
n-Butylbenzene	ug/L	ND	1.0	09/07/08 11:52	
n-Propylbenzene	ug/L	ND	1.0	09/07/08 11:52	
Naphthalene	ug/L	ND	10.0	09/07/08 11:52	
p-Isopropyltoluene	ug/L	ND	1.0	09/07/08 11:52	
sec-Butylbenzene	ug/L	ND	1.0	09/07/08 11:52	
Styrene	ug/L	ND	1.0	09/07/08 11:52	
tert-Butylbenzene	ug/L	ND	1.0	09/07/08 11:52	
Tetrachloroethene	ug/L	ND	1.0	09/07/08 11:52	
Toluene	ug/L	ND	1.0	09/07/08 11:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/07/08 11:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/07/08 11:52	
Trichloroethene	ug/L	ND	1.0	09/07/08 11:52	
Trichlorofluoromethane	ug/L	ND	1.0	09/07/08 11:52	
Vinyl chloride	ug/L	ND	1.0	09/07/08 11:52	
Xylene (Total)	ug/L	ND	3.0	09/07/08 11:52	
1,2-Dichloroethane-d4 (S)	%	96	81-118	09/07/08 11:52	
4-Bromofluorobenzene (S)	%	104	85-119	09/07/08 11:52	
Dibromofluoromethane (S)	%	94	85-114	09/07/08 11:52	
Toluene-d8 (S)	%	100	82-114	09/07/08 11:52	

LABORATORY CONTROL SAMPLE: 374347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.9	109	77-127	
1,1,1-Trichloroethane	ug/L	10	10.2	102	78-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.7	97	73-131	
1,1,2-Trichloroethane	ug/L	10	10.7	107	85-126	
1,1-Dichloroethane	ug/L	10	10.2	102	76-124	
1,1-Dichloroethene	ug/L	10	10.3	103	76-129	
1,1-Dichloropropene	ug/L	10	9.9	99	83-125	
1,2,3-Trichlorobenzene	ug/L	10	9.6	96	78-129	
1,2,3-Trichloropropane	ug/L	10	10.2	102	69-117	
1,2,4-Trichlorobenzene	ug/L	10	9.6	96	79-127	
1,2,4-Trimethylbenzene	ug/L	10	10.5	105	82-124	
1,2-Dibromo-3-chloropropane	ug/L	10	11.1	111	62-141	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

LABORATORY CONTROL SAMPLE: 374347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	10	10.1	101	85-124	
1,2-Dichlorobenzene	ug/L	10	9.9	99	85-123	
1,2-Dichloroethane	ug/L	10	10.0	100	77-129	
1,2-Dichloroethene (Total)	ug/L	20	19.4	97	81-127	
1,2-Dichloropropane	ug/L	10	9.9	99	82-121	
1,3,5-Trimethylbenzene	ug/L	10	10.3	103	85-122	
1,3-Dichlorobenzene	ug/L	10	9.6	96	84-121	
1,3-Dichloropropane	ug/L	10	10.5	105	86-121	
1,4-Dichlorobenzene	ug/L	10	9.4	94	83-121	
2,2-Dichloropropane	ug/L	10	10.8	108	47-154	
2-Butanone (MEK)	ug/L	25	21.5	86	64-126	
2-Chlorotoluene	ug/L	10	10.4	104	83-125	
2-Hexanone	ug/L	25	23.7	95	65-128	
4-Chlorotoluene	ug/L	10	9.9	99	84-121	
4-Methyl-2-pentanone (MIBK)	ug/L	25	21.7	87	64-121	
Acetone	ug/L	25	21.8	87	52-139	
Benzene	ug/L	10	9.8	98	87-117	
Bromobenzene	ug/L	10	10.1	101	83-126	
Bromochloromethane	ug/L	10	10.2	102	82-129	
Bromodichloromethane	ug/L	10	11.2	112	75-127	
Bromoform	ug/L	10	11.4	114	64-133	
Bromomethane	ug/L	10	11.2	112	21-188	
Carbon disulfide	ug/L	10	7.9	79	53-120	
Carbon tetrachloride	ug/L	10	10.4	104	76-131	
Chlorobenzene	ug/L	10	10.2	102	85-120	
Chloroethane	ug/L	10	10.0	100	69-126	
Chloroform	ug/L	10	10.1	101	79-126	
Chloromethane	ug/L	10	7.0	70	44-118	
cis-1,2-Dichloroethene	ug/L	10	9.9	99	79-128	
cis-1,3-Dichloropropene	ug/L	10	10.7	107	76-122	
Dibromochloromethane	ug/L	10	11.4	114	74-121	
Dibromomethane	ug/L	10	9.7	97	75-130	
Dichlorodifluoromethane	ug/L	10	9.0	90	12-132	
Ethylbenzene	ug/L	10	10.2	102	84-123	
Hexachloro-1,3-butadiene	ug/L	10	9.3	93	71-144	
Isopropylbenzene (Cumene)	ug/L	10	9.3	93	72-107	
Methyl-tert-butyl ether	ug/L	10	9.2	92	69-115	
Methylene chloride	ug/L	10	10.6	106	74-132	
n-Butylbenzene	ug/L	10	10.2	102	80-126	
n-Propylbenzene	ug/L	10	9.9	99	83-123	
Naphthalene	ug/L	10	9.3J	93	61-150	
p-Isopropyltoluene	ug/L	10	9.7	97	82-118	
sec-Butylbenzene	ug/L	10	10.1	101	84-121	
Styrene	ug/L	10	10.9	109	84-128	
tert-Butylbenzene	ug/L	10	10.0	100	83-124	
Tetrachloroethene	ug/L	10	10.0	100	83-126	
Toluene	ug/L	10	9.6	96	81-124	
trans-1,2-Dichloroethene	ug/L	10	9.5	95	80-130	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

LABORATORY CONTROL SAMPLE: 374347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	10	10.6	106	75-122	
Trichloroethene	ug/L	10	10	100	80-130	
Trichlorofluoromethane	ug/L	10	8.3	83	65-113	
Vinyl chloride	ug/L	10	9.5	95	59-124	
Xylene (Total)	ug/L	30	30.6	102	83-125	
1,2-Dichloroethane-d4 (S)	%			97	81-118	
4-Bromofluorobenzene (S)	%			103	85-119	
Dibromofluoromethane (S)	%			95	85-114	
Toluene-d8 (S)	%			100	82-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374348 374349

Parameter	Units	6045865003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	10	10	11.4	10.9	114	109	50-162	4	26	
Benzene	ug/L	ND	10	10	11.1	10.8	111	108	30-162	3	22	
Chlorobenzene	ug/L	ND	10	10	11.8	11.6	111	109	74-133	2	25	
Toluene	ug/L	ND	10	10	11.0	10.7	110	107	49-143	3	20	
Trichloroethene	ug/L	1.9	10	10	12.6	13.0	107	111	71-141	3	28	
1,2-Dichloroethane-d4 (S)	%						95	95	81-118			
4-Bromofluorobenzene (S)	%						101	101	85-119			
Dibromofluoromethane (S)	%						97	97	85-114			
Toluene-d8 (S)	%						101	100	82-114			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: MPRP/7154 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 374501 | Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	09/09/08 16:49	
Manganese	ug/L	ND	5.0	09/09/08 16:49	

LABORATORY CONTROL SAMPLE: 374502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10000	100	80-120	
Manganese	ug/L	1000	996	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374503 374504

Parameter	Units	6045868001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	2810	10000	10000	13100	13300	103	105	75-125	1	10	
Manganese	ug/L	125	1000	1000	1120	1130	100	100	75-125	0	10	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WETA/7852 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 374599 | Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/08/08 18:29	

LABORATORY CONTROL SAMPLE: 374600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE SAMPLE: 374602

Parameter	Units	6046057002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	11.1	5	16.2	101	66-136	

SAMPLE DUPLICATE: 374601

Parameter	Units	6045865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.2	3.0	9	25	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WET/13964 Analysis Method: SM 2340C
QC Batch Method: SM 2340C Analysis Description: 2340C Hardness, Total
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

SAMPLE DUPLICATE: 374765

Parameter	Units	6046009001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Hardness	mg/L	105	105	0	5	

SAMPLE DUPLICATE: 374766

Parameter	Units	6046039001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Hardness	mg/L	82.8	80.8	2	5	

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QUALITY CONTROL DATA

Project: Brenntag
Pace Project No.: 6045865

QC Batch: WETA/7858 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

METHOD BLANK: 374869 Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865006, 6045865007, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	09/09/08 13:09	
Sulfate	mg/L	ND	1.0	09/09/08 13:09	

LABORATORY CONTROL SAMPLE: 374870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.5	109	90-110	
Sulfate	mg/L	5	5.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374872 374873

Parameter	Units	6045844001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	25	25	25.8	25.7	103	103	76-124	0	9	
Sulfate	mg/L	45.5	25	25	71.5	70.0	104	98	60-134	2	6	

SAMPLE DUPLICATE: 374871

Parameter	Units	6045875005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromide	mg/L	ND	ND	0	8	
Sulfate	mg/L	429	428	0	10	

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QUALIFIERS

Project: Brenntag
Pace Project No.: 6045865

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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ANALYTE QUALIFIERS

H3	Sample was received outside EPA method holding time.
M0	Matrix spike recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag
Pace Project No.: 6045865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6045865001	**MW-1D**	SM 2320B	WET/13876		
6045865002	**MW-1S**	SM 2320B	WET/13876		
6045865006	**MW-2D**	SM 2320B	WET/13876		
6045865007	**MW-2S**	SM 2320B	WET/13876		
6045865008	**BLIND DUP**	SM 2320B	WET/13876		
6045865001	**MW-1D**	EPA 300.0	WETA/7824		
6045865002	**MW-1S**	EPA 300.0	WETA/7824		
6045865006	**MW-2D**	EPA 300.0	WETA/7824		
6045865007	**MW-2S**	EPA 300.0	WETA/7824		
6045865008	**BLIND DUP**	EPA 300.0	WETA/7824		
6045865001	**MW-1D**	SM 4500-S-2 F	WET/13906		
6045865002	**MW-1S**	SM 4500-S-2 F	WET/13906		
6045865006	**MW-2D**	SM 4500-S-2 F	WET/13906		
6045865007	**MW-2S**	SM 4500-S-2 F	WET/13906		
6045865008	**BLIND DUP**	SM 4500-S-2 F	WET/13906		
6045865001	**MW-1D**	EPA 353.2	WETA/7836		
6045865002	**MW-1S**	EPA 353.2	WETA/7836		
6045865006	**MW-2D**	EPA 353.2	WETA/7836		
6045865007	**MW-2S**	EPA 353.2	WETA/7836		
6045865008	**BLIND DUP**	EPA 353.2	WETA/7836		
6045865001	**MW-1D**	EPA 5030B/8260	MSV/16615		
6045865002	**MW-1S**	EPA 5030B/8260	MSV/16615		
6045865003	**PZ-3**	EPA 5030B/8260	MSV/16615		
6045865004	**MW-3D**	EPA 5030B/8260	MSV/16615		
6045865005	**MW-3S**	EPA 5030B/8260	MSV/16615		
6045865006	**MW-2D**	EPA 5030B/8260	MSV/16615		
6045865007	**MW-2S**	EPA 5030B/8260	MSV/16615		
6045865008	**BLIND DUP**	EPA 5030B/8260	MSV/16615		
6045865009	**TRIP BLANK**	EPA 5030B/8260	MSV/16615		
6045865001	**MW-1D**	EPA 3010	MPRP/7154	EPA 6010	ICP/6305
6045865002	**MW-1S**	EPA 3010	MPRP/7154	EPA 6010	ICP/6305
6045865006	**MW-2D**	EPA 3010	MPRP/7154	EPA 6010	ICP/6305
6045865007	**MW-2S**	EPA 3010	MPRP/7154	EPA 6010	ICP/6305
6045865008	**BLIND DUP**	EPA 3010	MPRP/7154	EPA 6010	ICP/6305
6045865001	**MW-1D**	SM 5310C	WETA/7852		
6045865002	**MW-1S**	SM 5310C	WETA/7852		
6045865006	**MW-2D**	SM 5310C	WETA/7852		
6045865007	**MW-2S**	SM 5310C	WETA/7852		
6045865008	**BLIND DUP**	SM 5310C	WETA/7852		
6045865001	**MW-1D**	SM 2340C	WET/13964		
6045865002	**MW-1S**	SM 2340C	WET/13964		
6045865006	**MW-2D**	SM 2340C	WET/13964		
6045865007	**MW-2S**	SM 2340C	WET/13964		
6045865008	**BLIND DUP**	SM 2340C	WET/13964		
6045865001	**MW-1D**	EPA 300.0	WETA/7858		

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag
Pace Project No.: 6045865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6045865002	**MW-1S**	EPA 300.0	WETA/7858		
6045865006	**MW-2D**	EPA 300.0	WETA/7858		
6045865007	**MW-2S**	EPA 300.0	WETA/7858		
6045865008	**BLIND DUP**	EPA 300.0	WETA/7858		

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Pace Analytical

Forrester Group
605 N. Boonville
Springfield, MO 65806

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company: ~~Geotechnical Services, Inc.~~
Address: ~~4503 E. 47th St. South~~
~~Wichita, KS 67210~~
Email To: kris@forrestergroup.com
Phone: 417-864-6444 Fax: 417-864-6145
Requested Due Date/TAT: Normal

Section B — Required Project Information:

Report To: Kris Gamble
Copy To:
Purchase Order No.
Client Project ID: Brenntag
Container Order Number:

Section C — Invoice Information:

Attention: Kris Gamble
Company Name: Forrester
Address:
Pace Quote Reference:
Pace Project Manager: Angie Brown
Pace Profile #:

Regulatory Agency:
State / Location: Kansas

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zinc Acetate	Na2S2O3	Methanol	Other	Analyses Test (Y/N): 8260 VOCs	6010 Fe, Mn	Total Organic Carbon	Methane/Ethane/Ethene	Sulfide	SO4, Br 300.0	NO2/NO3 300.0	Alkalinity	Hardness	Residual Chlorine (Y/N)	6045865	
1	MW-1D	WT	G			8-29-08	1630		10	1	1	1	6	1				X	X	X	X	X	X	X	X	X		3(DG9H) 3(VG9H) 1(BP2U) 1(AG2S) 1(BP3C) 1(BP3N)	001
2	MW-1S	WT	G				1525		10	1	1	1	6	1				X	X	X	X	X	X	X	X	X		↓	002
3	PZ-3 x MS MSD	WT	G				1015		3				3					X										9(DG9H)	003
4	MW-3D	WT	G				1045		3				3					X										3(DG9H)	004
5	MW-3S	WT	G				1110		3				3					X										↓	005
6	MW-2D	WT	G				1430		10	1	1	1	6	1				X	X	X	X	X	X	X	X	X		3(DG9H) 3(VG9H) 1(BP2U) 1(AG2S) 1(BP3C) 1(BP3N)	006
7	MW-2S	WT	G				1215		10	1	1	1	6	1				X	X	X	X	X	X	X	X	X		↓	007
8	Trip Blank	WT	—			↓	—		2				2					X										2(DG9H)	009
9	Blind Dup.	WT	G			8-29-08	—		10	1	1	1	6	1				X	X	X	X	X	X	X	X	X		3(DG9H) 3(VG9H) 1(BP2U) 1(AG2S) 1(BP3C) 1(BP3N)	008
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Returning unused containers.	Julie Turner / GSI	09/02/08	945	[illegible] / [illegible]	9/2/08	2230	1.2	Y	Y	Y
							0.4	Y	Y	Y

3 coolers.

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Julie N. Turner
SIGNATURE of SAMPLER: Julie N. Turner
DATE Signed: 08-29-08

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Profile 1530 - 42

Sample Condition Upon Receipt

Pace Analytical

Client Name: Forrester (GSI) Project # 6045865

Optional
Proj. Due Date: 9/15
Proj. Name: Brenntag

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other ECI

Tracking #: 928299

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used (T-142) T-168 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.2, 0.4 Biological Tissue is Frozen: ~~Yes~~ No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMS 9/3/08 1030

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	~~☒Yes~~ ☒No ☐N/A	5. Subsequent out of hold
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6. NO_2 NO_3
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: water		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed JMS / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): 080408-3		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

9/3 – Run NO_2/NO_3 by 300 outside Hold time – see email.

Project Manager Review: [signature] 9/3/08 **Date:** _____

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

F-ALLC003rev.3, 11September2006

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

September 12, 2008

Client Services
Pace Analytical Kansas
9608 Loiret Blvd
Lenexa, KS 66219

RE: Project: 6045865 FORRESTER
Pace Project No.: 1080154

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on September 05, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Cory C Lund for
Sylvia Hunter
sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

cc: Angie Brown, Pace Analytical Kansas
Mr. Dave Neal, PASI Kansas

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SAMPLE SUMMARY

Project: 6045865 FORRESTER
Pace Project No.: 1080154

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6045865001	**MW-1D**	Water	08/29/08 16:30	09/05/08 09:05
6045865002	**MW-1S**	Water	08/29/08 15:25	09/05/08 09:05
6045865006	**MW-2D**	Water	08/29/08 14:30	09/05/08 09:05
6045865007	**MW-2S**	Water	08/29/08 12:15	09/05/08 09:05
6045865008	**BLIND DUP**	Water	08/29/08 00:00	09/05/08 09:05

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SAMPLE ANALYTE COUNT

Project: 6045865 FORRESTER
Pace Project No.: 1080154

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6045865001	**MW-1D**	RSK 175	LCW	3
6045865002	**MW-1S**	RSK 175	LCW	3
6045865006	**MW-2D**	RSK 175	LCW	3
6045865007	**MW-2S**	RSK 175	LCW	3
6045865008	**BLIND DUP**	RSK 175	LCW	3

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PROJECT NARRATIVE

Project: 6045865 FORRESTER
Pace Project No.: 1080154

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: PASI Kansas
Date: September 12, 2008

General Information:
5 samples were analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 6045865 FORRESTER
Pace Project No.: 1080154

Sample: MW-1D **Lab ID: 6045865001** Collected: 08/29/08 16:30 Received: 09/05/08 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	20.0	10.0	1		09/08/08 15:09	74-84-0	
Ethene	ND	ug/L	20.0	10.0	1		09/08/08 15:09	74-85-1	
Methane	**15.2**	ug/L	10.0	5.0	1		09/08/08 15:09	74-82-8	

Sample: MW-1S **Lab ID: 6045865002** Collected: 08/29/08 15:25 Received: 09/05/08 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	20.0	10.0	1		09/08/08 15:34	74-84-0	
Ethene	ND	ug/L	20.0	10.0	1		09/08/08 15:34	74-85-1	
Methane	ND	ug/L	10.0	5.0	1		09/08/08 15:34	74-82-8	

Sample: MW-2D **Lab ID: 6045865006** Collected: 08/29/08 14:30 Received: 09/05/08 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	20.0	10.0	1		09/10/08 15:20	74-84-0	
Ethene	ND	ug/L	20.0	10.0	1		09/10/08 15:20	74-85-1	
Methane	**18.2**	ug/L	10.0	5.0	1		09/10/08 15:20	74-82-8	

Sample: MW-2S **Lab ID: 6045865007** Collected: 08/29/08 12:15 Received: 09/05/08 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	20.0	10.0	1		09/10/08 14:55	74-84-0	
Ethene	ND	ug/L	20.0	10.0	1		09/10/08 14:55	74-85-1	
Methane	ND	ug/L	10.0	5.0	1		09/10/08 14:55	74-82-8	

Sample: BLIND DUP **Lab ID: 6045865008** Collected: 08/29/08 00:00 Received: 09/05/08 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	20.0	10.0	1		09/08/08 16:00	74-84-0	
Ethene	ND	ug/L	20.0	10.0	1		09/08/08 16:00	74-85-1	
Methane	**18.4**	ug/L	10.0	5.0	1		09/08/08 16:00	74-82-8	

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 6045865 FORRESTER
Pace Project No.: 1080154

QC Batch: AIR/7392 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 6045865001, 6045865002, 6045865008

METHOD BLANK: 521947 | Matrix: Water
Associated Lab Samples: 6045865001, 6045865002, 6045865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	20.0	09/08/08 11:47	
Ethene	ug/L	ND	20.0	09/08/08 11:47	
Methane	ug/L	ND	10.0	09/08/08 11:47	

LABORATORY CONTROL SAMPLE & LCSD: 521948 521949

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	118	92.0	104	81	70-130	25	30	
Ethene	ug/L	106	119	91.4	112	86	70-130	26	30	
Methane	ug/L	60.7	60.0	44.4	99	73	70-130	30	30	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 6045865 FORRESTER
Pace Project No.: 1080154

QC Batch: AIR/7401 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 6045865006, 6045865007

METHOD BLANK: 522376 | Matrix: Water
Associated Lab Samples: 6045865006, 6045865007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	20.0	09/10/08 14:29	
Ethene	ug/L	ND	20.0	09/10/08 14:29	
Methane	ug/L	ND	10.0	09/10/08 14:29	

LABORATORY CONTROL SAMPLE & LCSD: 522377 522378

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	118	101	104	89	70-130	16	30	
Ethene	ug/L	106	116	105	109	99	70-130	9	30	
Methane	ug/L	60.7	64.1	55.3	106	91	70-130	15	30	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 6045865 FORRESTER
Pace Project No.: 1080154

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6045865 FORRESTER
Pace Project No.: 1080154

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6045865001	**MW-1D**	RSK 175	AIR/7392		
6045865002	**MW-1S**	RSK 175	AIR/7392		
6045865008	**BLIND DUP**	RSK 175	AIR/7392		
6045865006	**MW-2D**	RSK 175	AIR/7401		
6045865007	**MW-2S**	RSK 175	AIR/7401		

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Pace Analytical

Forrester Group
605 N. Boonville
Springfield, MO 65806

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	~~Geotechnical Services, Inc.~~
Address:	~~4503 E. 47th St. South~~
	~~Wichita, KS 67210~~
Email To:	kris@forrestergroup.com
Phone:	417-864-6444 Fax 417-864-6445
Requested Due Date/TAT:	Normal

Section B — Required Project Information:

Report To:	Kris Gamble
Copy To:	
Purchase Order No.	
Client Project ID:	Brenntag
Container Order Number:	

Section C — Invoice Information:

Attention:	Kris Gamble
Company Name:	Forrester
Address:	
Pace Quote Reference:	
Pace Project Manager:	Angie Brown
Pace Profile #:	

Regulatory Agency:

State / Location: Kansas

Requested Analysis Filtered (Y/N):

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH+Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test	8260 VOCs	6010 Fe, Mn	Total Organic Carbon	Methane/Ethane/Ethene	Sulfide	SO4, Br 300.0	NO2/NO3 300.0	Alkalinity	Hardness	Residual Chlorine (Y/N)	604SOC5	
1	MW-1D	WT	G			8-29-08	1630		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X		3(04SH) 3(CNH) 1(FE2W)	001
2	MW-1S	WT	G				1525		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X		↓	002
3	PZ-3 x MS/MSD	WT	G				1015		3				3						X										9(06SH)	003
4	MW-3D	WT	G				1045		3				3						X										3(04SH)	004
5	MW-3S	WT	G				1110		3				3						X										↓	005
6	MW-2D	WT	G				1420		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X		3(04SH) 3(CNH) 1(FE2W) 1(MN2S) 1(FE2W) 1(FE3W)	006
7	MW-2S	WT	G				1215		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X		↓	007
8	Trip Blank	WT	-			✓	—		2				2						X										2(04SH)	009
9	Blind Dup.	WT	G			8-29-08	—		10	1	1	1	6	1					X	X	X	X	X	X	X	X	X		3(04SH) 3(CNH) 1(MN2S) 1(FE2W) 1(FE3W)	008
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Returning unused containers.	Julie Turner / GSI	08/29/08	945	[illegible] / Ice	9/2/08	2230	[illegible]	[illegible]	[illegible]	✓
	[illegible]	9/4/08	1700	[illegible] / Ice	9/5	0905	[illegible]	✗	AN	✗

3 coolers.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Julie N. Turner

SIGNATURE of SAMPLER: Julie N. Turner

DATE Signed: 08-29-08

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

1124

Pace Analytical

Sample Condition Upon Receipt

Client Name: Pace ICS Project # 1080154

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

Tracking #: 964737029619

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ____ No ☒

Thermometer Used 80344042, 179425 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 7.6° Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9-5-08

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☐Yes ☒No ☐N/A	10. MW-10 Broke upon Arrival
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Field Data Required? Y / N

Comments/ Resolution: OK to run out of temp per Angie Brown

Project Manager Review: [signature] Date: 9-8-08

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

Memorandum

Foth Infrastructure & Environment, LLC
605 N. Boonville Avenue
Springfield, MO 65806
(417) 864-6444 • Fax: (417) 864-6445
www.foth.com

June 26, 2013

TO: File

FR: Robert Kick

RE: Brenntag Southwest, 1520 North Barwise, Wichita, KS – Slug Test Data Reevaluation

Subsequent to the analysis of slug test data and the reporting of hydraulic conductivities derived from this data in 2008, Foth identified uncertainties with regard to the naming of the AQTESOLVE output graphs. For example, the "Data Set" name and the "Test Well" name did not always match on the "Well Test Analysis" output reports. This disagreement produced uncertainty regarding the well to which the test results applied. Therefore, the slug-test data were reanalyzed to address this uncertainty and are discussed in this memorandum.

The results of the reanalysis were found to be consistent with the results that were initially found. Data from MW-02s, which previously was considered suspect due to anomalous water levels, was reexamined and found to be usable and consistent with data from other shallow wells. Table 1 shows the test results that were determined during the reanalysis.

Average hydraulic conductivity (K) values for the two test horizons were then derived. The average hydraulic conductivity value from shallow wells was calculated by averaging the composite test results for wells MW-1s, MW-2s, and MW-3s. The hydraulic conductivity value from deep wells was calculated by averaging the composite test results for wells MW-1d and MW-2d. Well MW-3d was not included in this calculation because the value for hydraulic conductivity was significantly lower than similar values in wells MW-1d and MW-2d and not typical of sand-rich deposits in this horizon. In this analysis the hydraulic conductivity of the shallow horizon was determined to be 138 feet per day which is essentially the same as 140 feet per day calculated previously. The hydraulic conductivity of the deeper horizon was 304 feet per day which also is very similar to the prior value of 293 feet per day. Using these values for hydraulic conductivity, the seepage velocity of the shallow groundwater horizon was calculated to be 292 feet per year and for the deep groundwater horizon was 460 feet per year. Calculations of the average hydraulic conductivity and average groundwater seepage velocities are shown in Table 2.

Table 1
Hydraulic Conductivity Estimates
Brenntag Southwest, Inc.
Wichita, KS

Well ID	Average K		Test Iterations				
	cm/sec	ft/day	1	2	3	4	5
MW-01D	0.105	298	346	223	325	290	306
MW-01S	0.041	117	122	105	129	101	130
MW-02D	0.109	310	293	328	293	321	313
MW-02S	0.050	141	118	137	187	147	115
MW-03D	0.018	51	55	54	53	54	38
MW-03S	0.055	156	154	150	113	208	-

Table 2
Groundwater Seepage Velocity Calculation
Brenntag Southwest
1520 Barwise, Wichita, KS

Q=KA dh/dl	Q=discharge, K=hydraulic conductivity, dh/dl=hydraulic gradient
Q/A=K dh/dl = q	q= specific discharge
q/n=v	n=porosity (in decimal form), v=seepage velocity

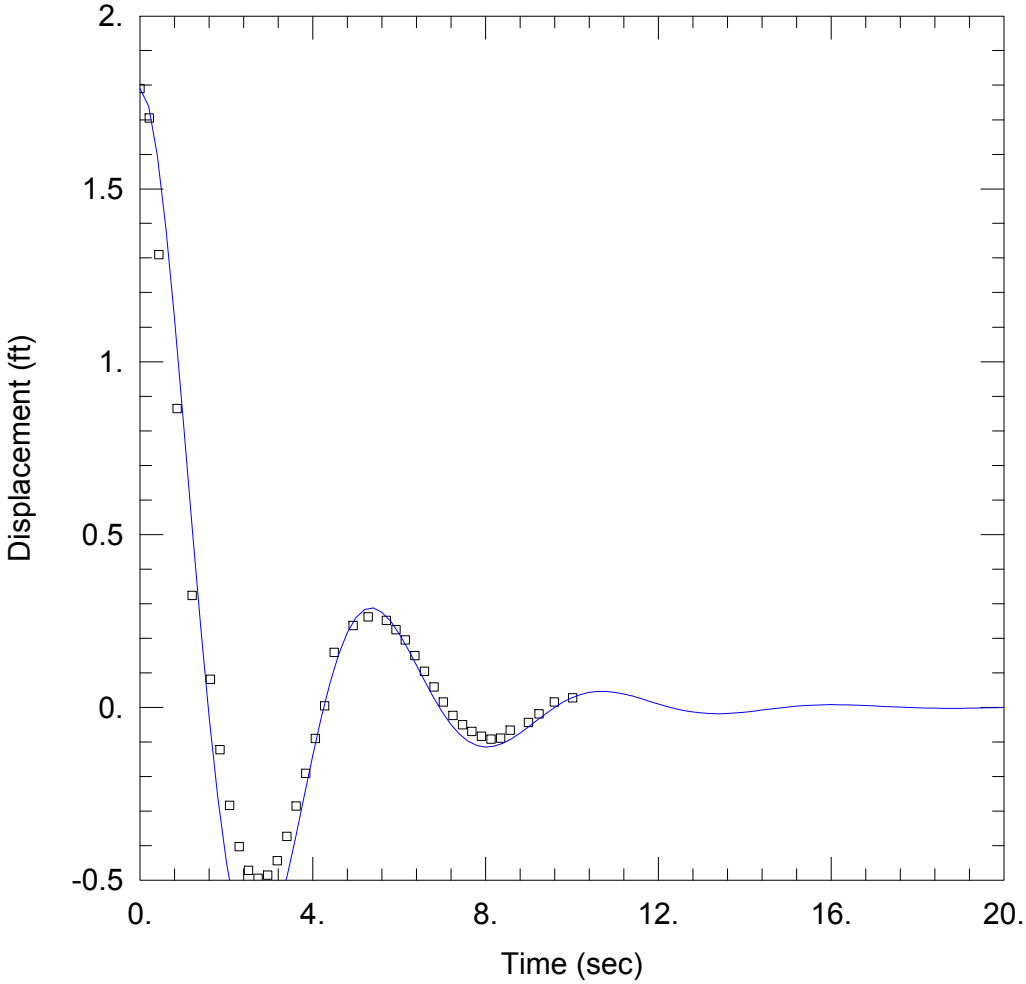
	K	dh/dl	n (decimal)	v	**v**	Notes
Case	ft/day	ft/ft	--	ft/day	ft/yr	--
Shallow	138	0.00145	0.25	8.00E-01	292	K is an average of shallow wells MW-01S, MW-02S, & MW-03 representing upper fine sand.
Deep	304	0.00145	0.35	1.26E+00	460	K is an average of deep wells MW-01D & MW-02D representing lower coarse sand. (see Note 1)
						Hydraulic gradient calculated from June 2009 water levels.
						Porosity values are consistent with literature values (Freeze & Cherry, 1979)

MW-01S	117	ft/day
MW-02S	141	ft/day
MW-03S	156	ft/day
Average	**138**	**ft/day**

MW-01D	298	ft/day
MW-02D	310	ft/day
Average	**304**	**ft/day**

Note 1. The average K-value for MW-03D was estimated to be 51 ft/day which is significantly lower than expected based on lithology or similar wells.
Therefore, data form MW-03D was not included in the average K-value used to calculate the groundwater seepage velocity for the deeper sand horizon.

RMKick
June 2013



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01d_1.aqt
Date: 06/19/13 Time: 14:12:24

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 1
Test Well: MW-01d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

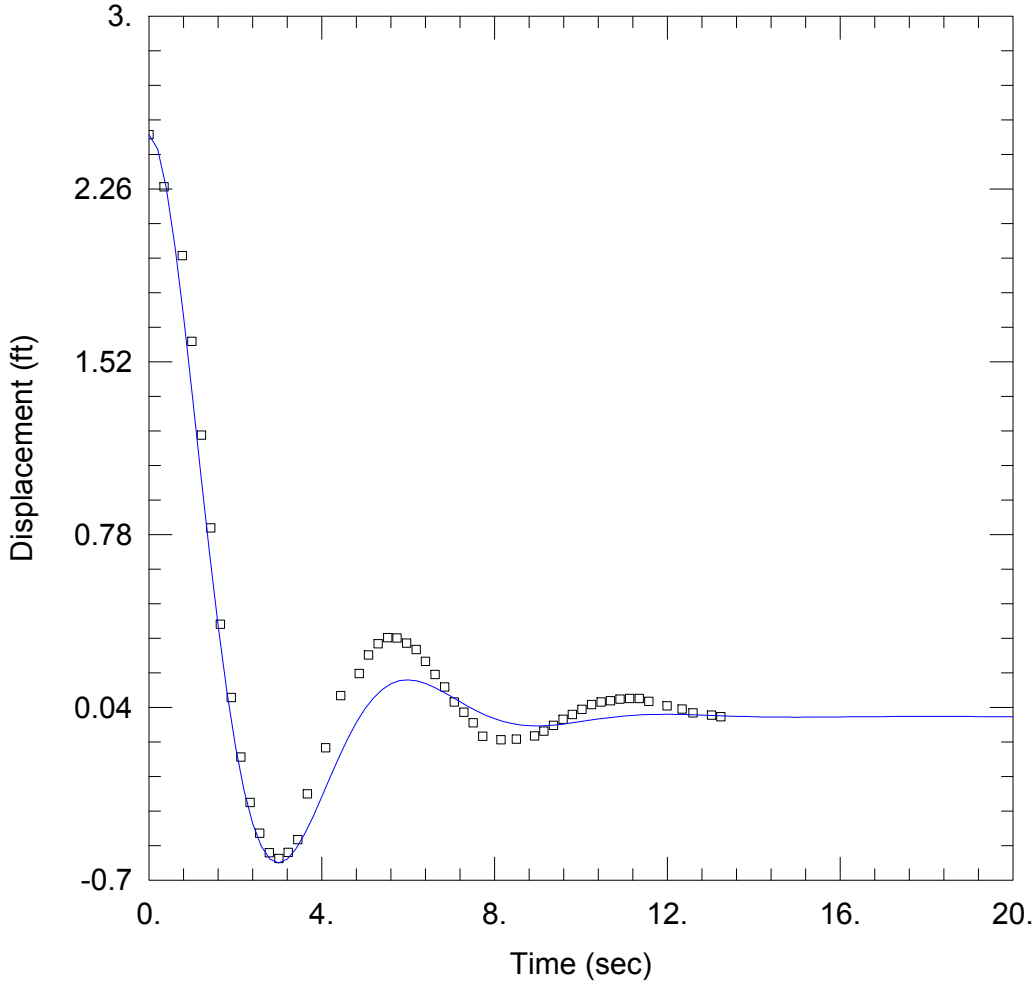
WELL DATA (MW-01D)

Initial Displacement: 1.79 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 345.9 ft/day Le = 21.5 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01d_2.aqt
Date: 06/19/13 Time: 14:13:56

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test2
Test Well: MW-01d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

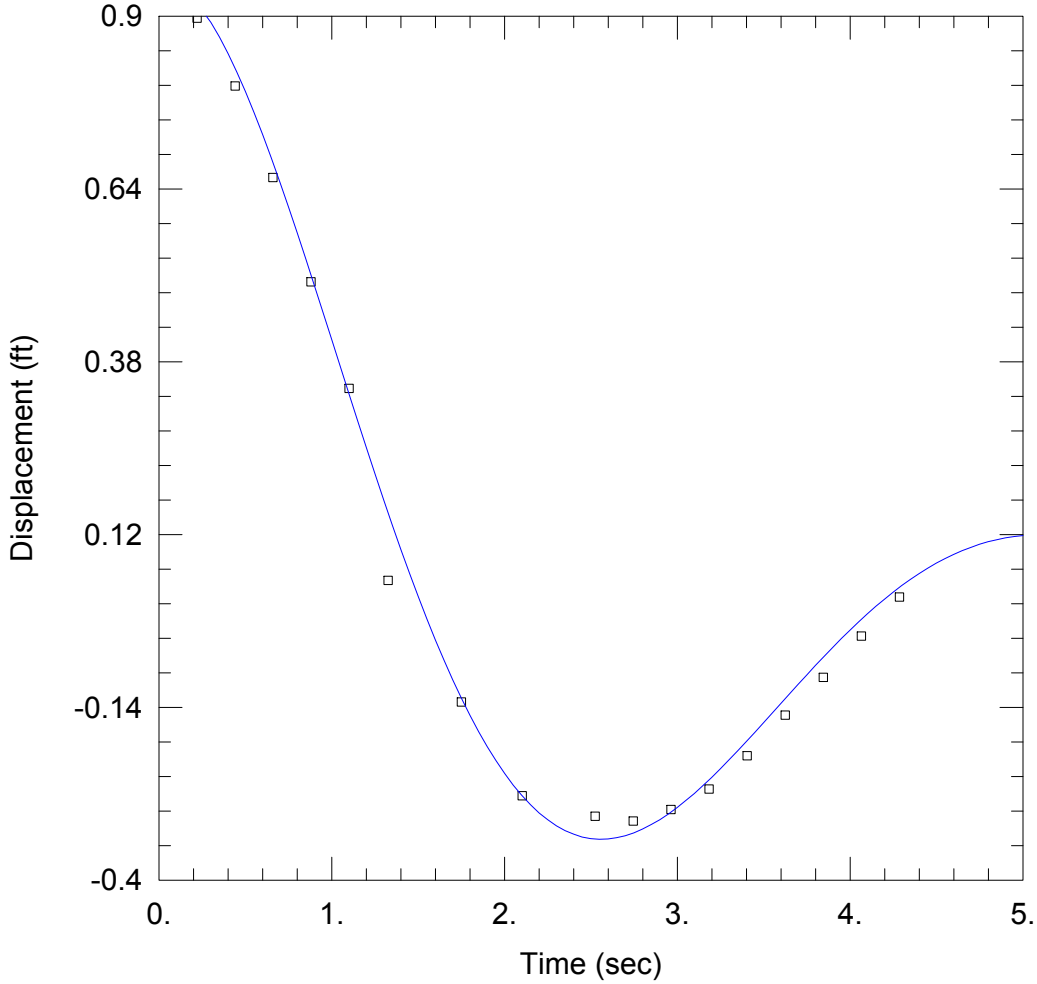
WELL DATA (MW-01D)

Initial Displacement: 2.492 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 223.4 ft/day Le = 24.45 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01d_3.aqt
Date: 06/19/13 Time: 14:14:52

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 3
Test Well: MW-01d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

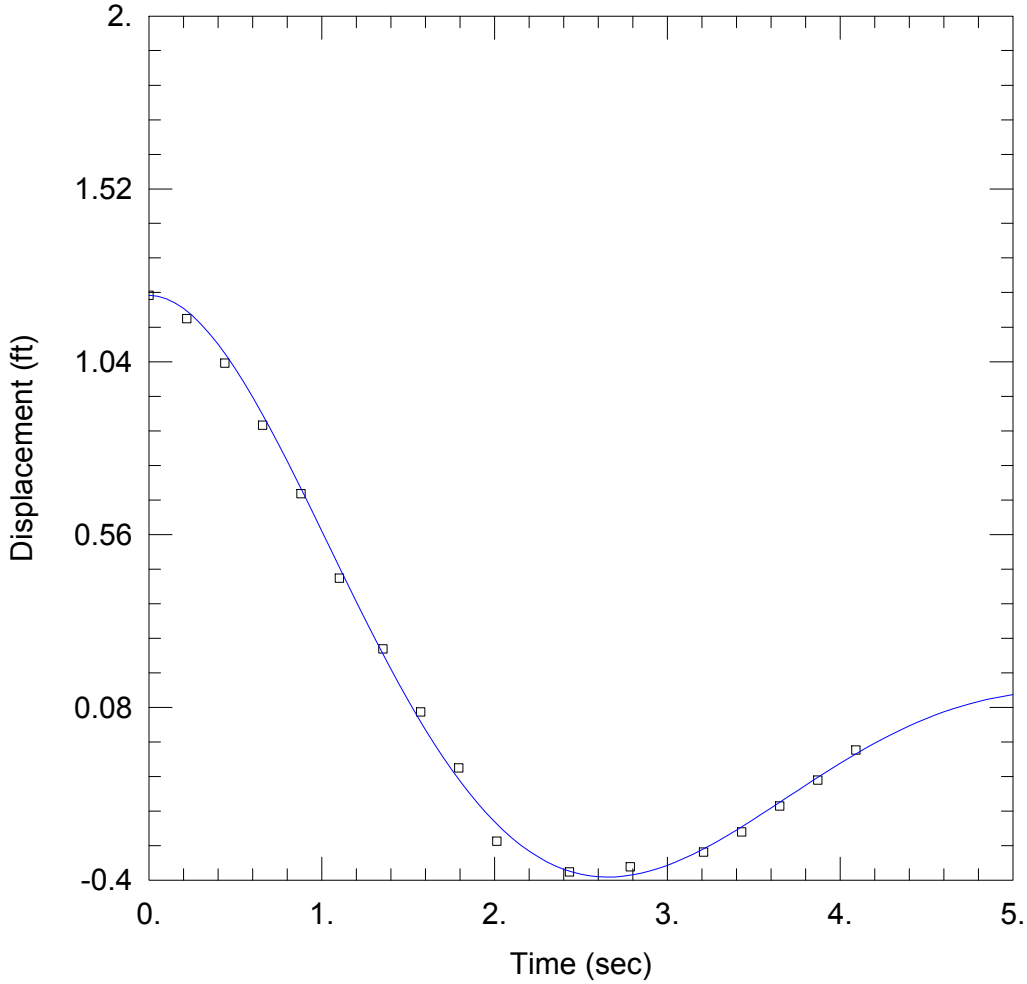
WELL DATA (MW-01D)

Initial Displacement: 0.956 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 325. ft/day Le = 19.25 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01d_4.aqt
Date: 06/19/13 Time: 14:15:40

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 4
Test Well: MW-01d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

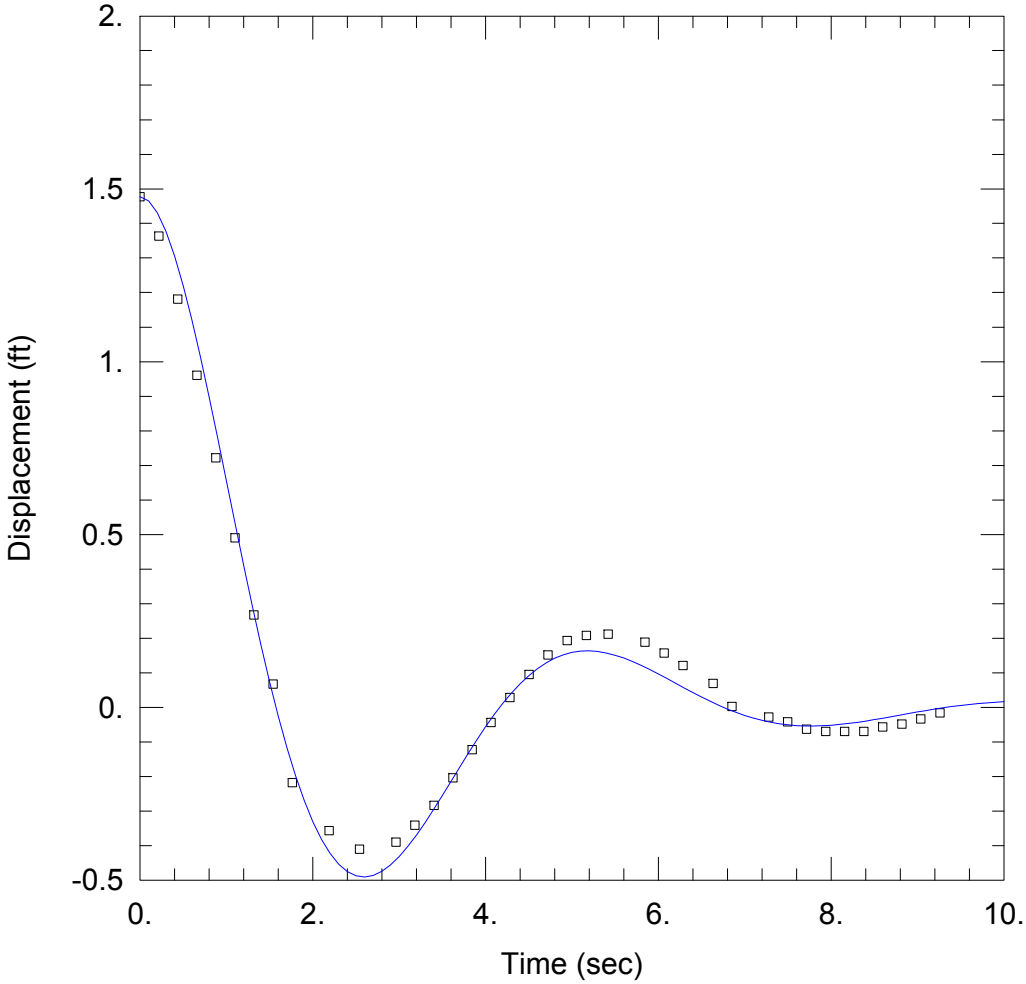
WELL DATA (MW-01D)

Initial Displacement: 1.224 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 290.3 ft/day Le = 20.34 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01d_5.aqt
Date: 06/19/13 Time: 14:16:32

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 5
Test Well: MW-01d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

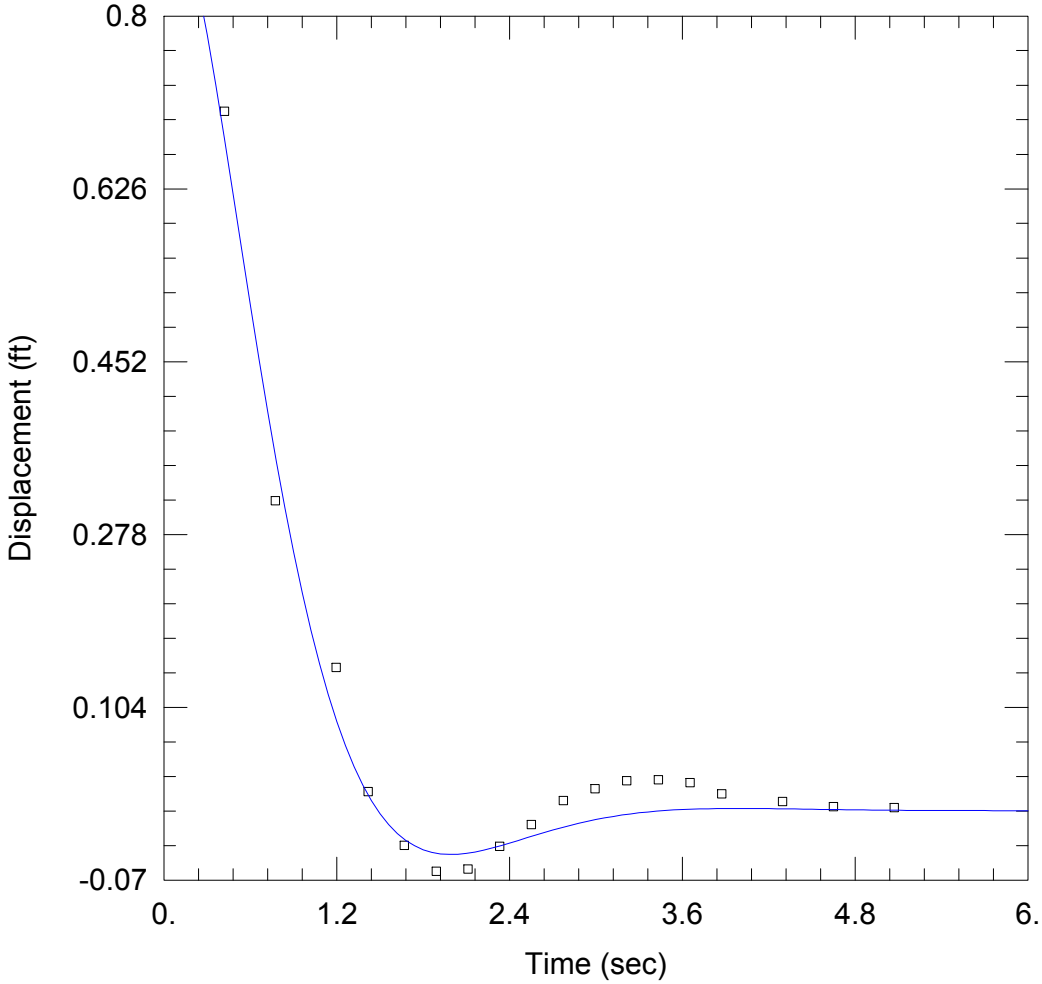
WELL DATA (MW-01D)

Initial Displacement: 1.477 ft
Total Well Penetration Depth: 26.47 ft
Casing Radius: 0.083 ft
Static Water Column Height: 26.47 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 306. ft/day Le = 19.48 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01s_1.aqt
Date: 06/19/13 Time: 11:26:41

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 1
Test Well: MW-01s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft
Anisotropy Ratio (Kz/Kr): 1.

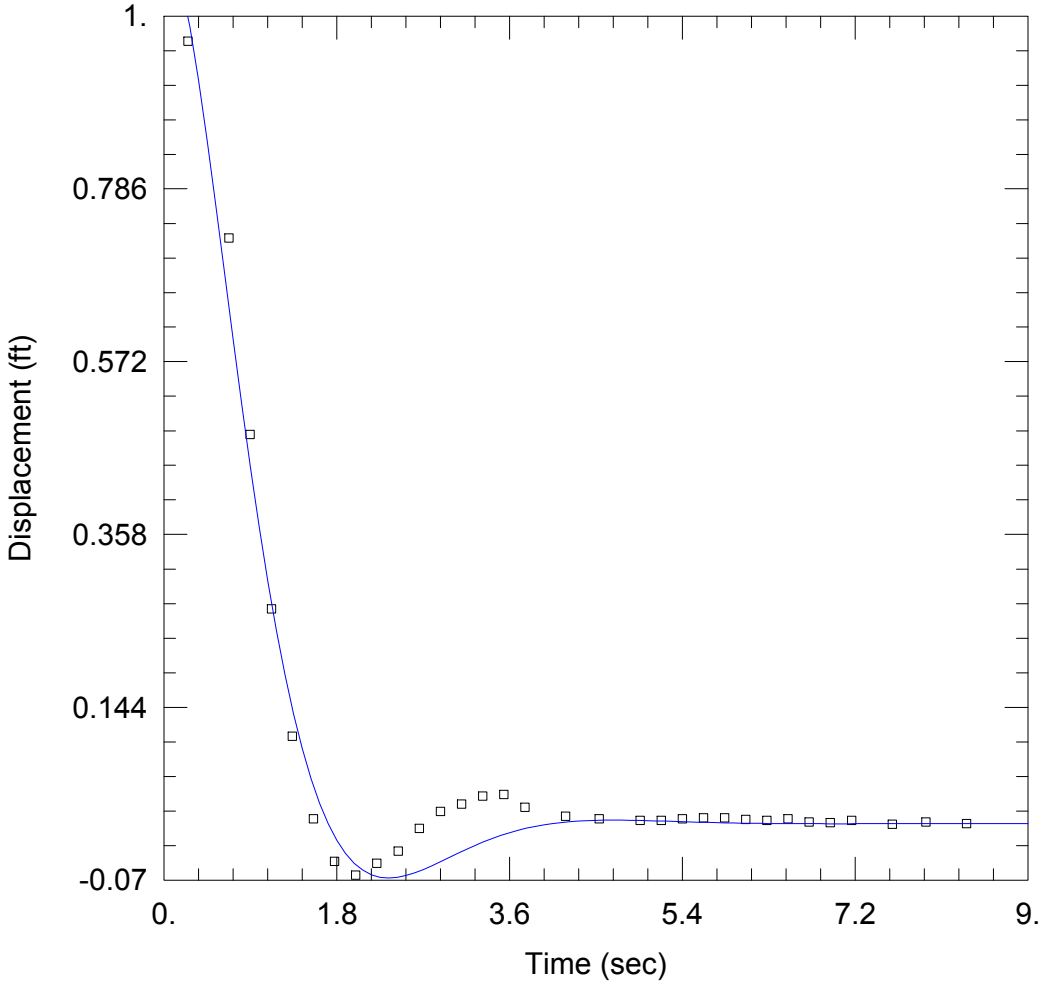
WELL DATA (MW-01S)

Initial Displacement: 0.928 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.12 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 122.2 ft/day
Le = 6.677 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01s_2.aqt
Date: 06/19/13 Time: 14:17:45

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 2
Test Well: MW-01s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

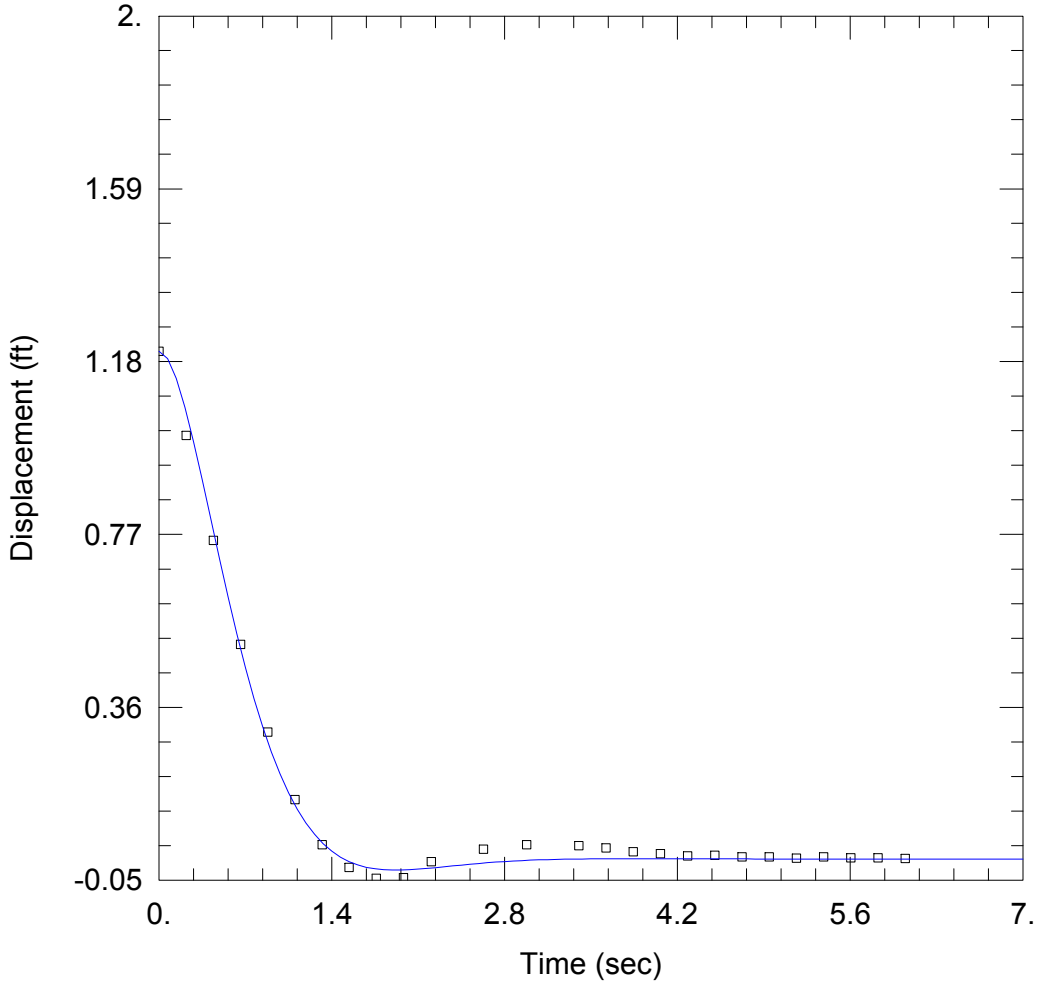
WELL DATA (MW-01S)

Initial Displacement: 1.089 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.12 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 104.8 ft/day Le = 10. ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01s_3.aqt
Date: 06/19/13 Time: 14:18:53

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 3
Test Well: MW-01s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

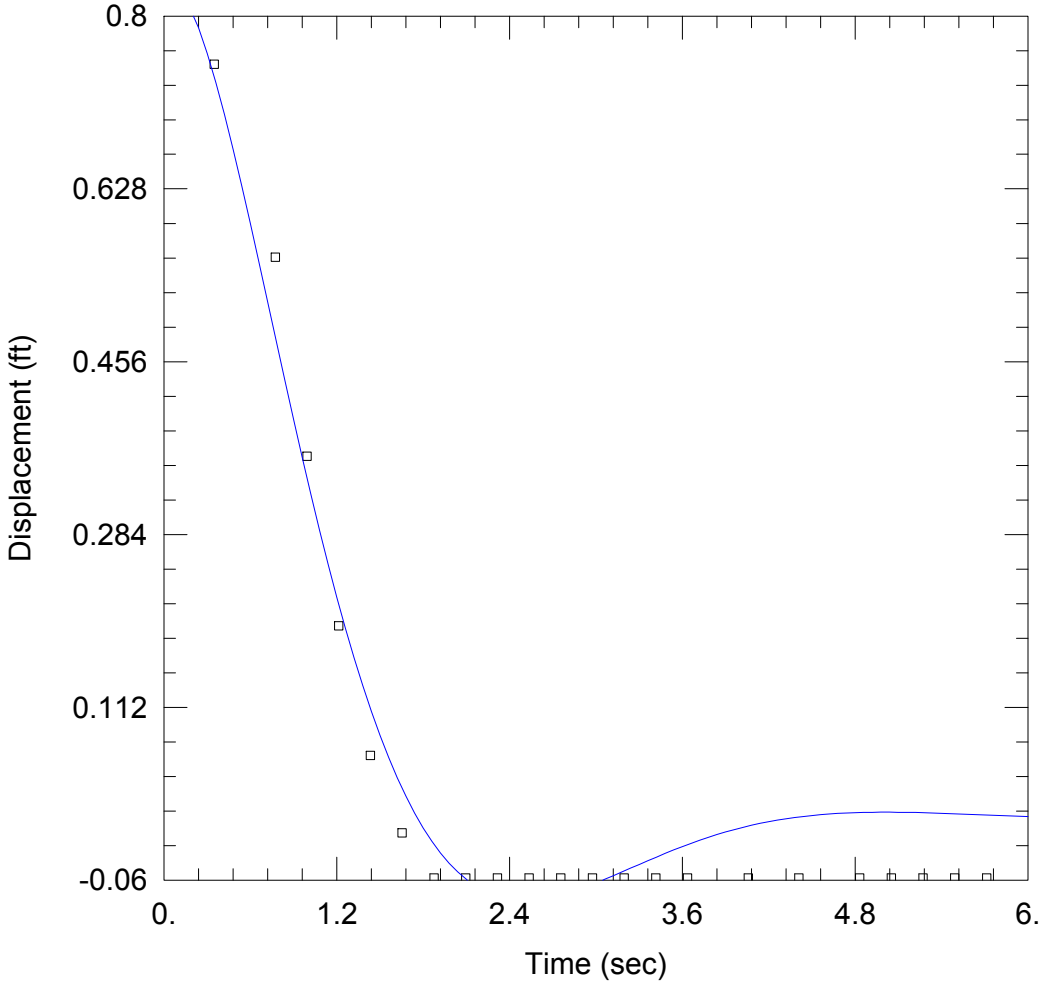
WELL DATA (MW-01S)

Initial Displacement: 1.205 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.12 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 129.4 ft/day Le = 4.841 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01s_4.aqt
Date: 06/19/13 Time: 14:19:33

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 4
Test Well: MW-01s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

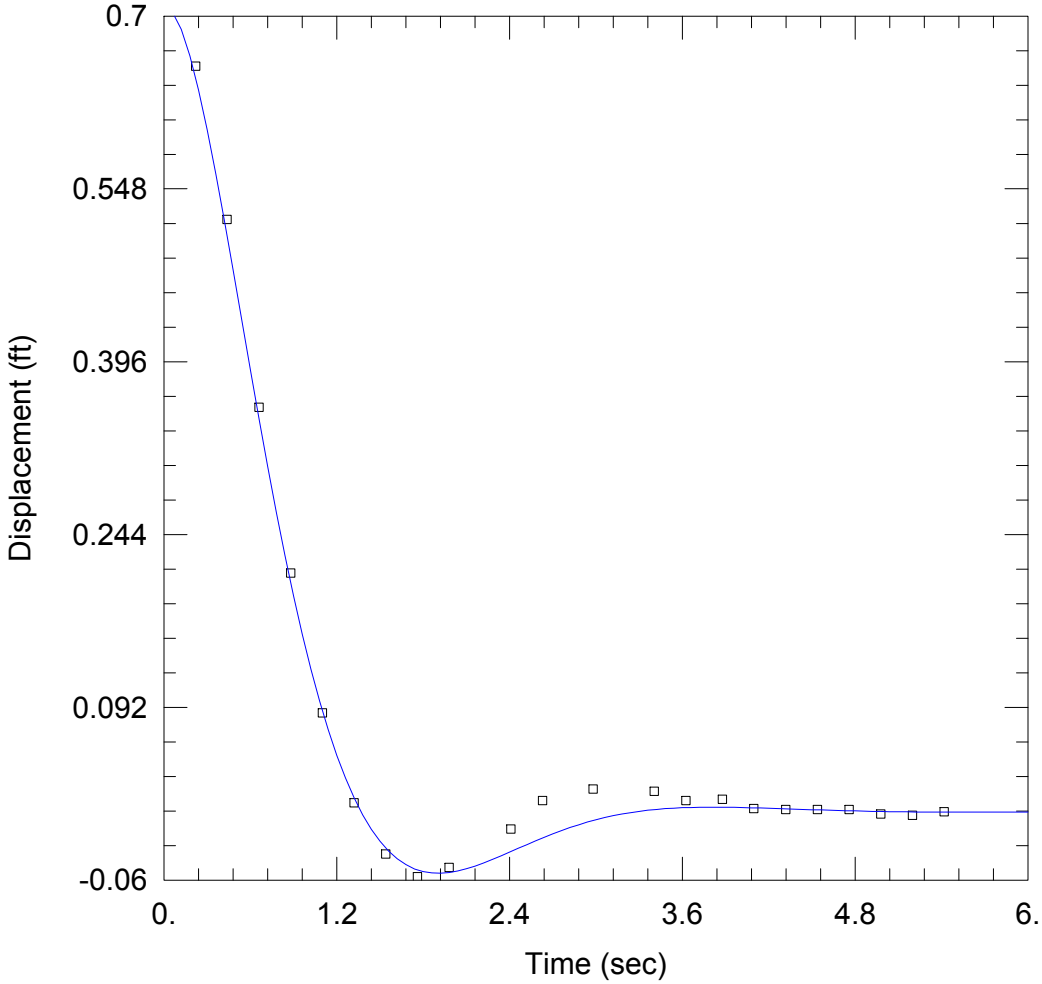
WELL DATA (MW-01S)

Initial Displacement: 0.839 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.12 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 101.1 ft/day
Le = 13.13 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-01s_5.aqt
Date: 06/19/13 Time: 14:20:10

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 5
Test Well: MW-01s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 26.47 ft Anisotropy Ratio (Kz/Kr): 1.

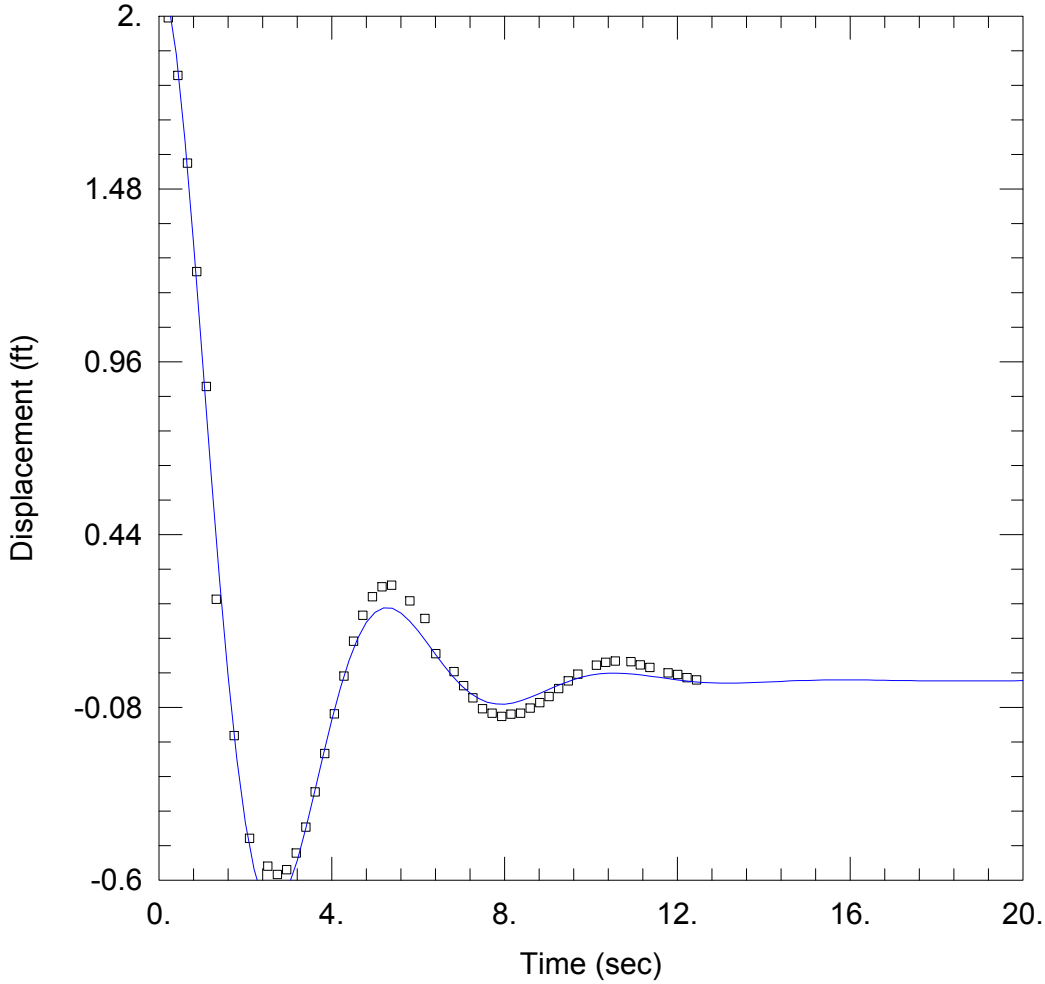
WELL DATA (MW-01S)

Initial Displacement: 0.709 ft
Total Well Penetration Depth: 14.12 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.12 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 130.4 ft/day
Le = 7.077 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02d_1.aqt
Date: 06/19/13 Time: 14:21:44

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 1
Test Well: MW-02d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

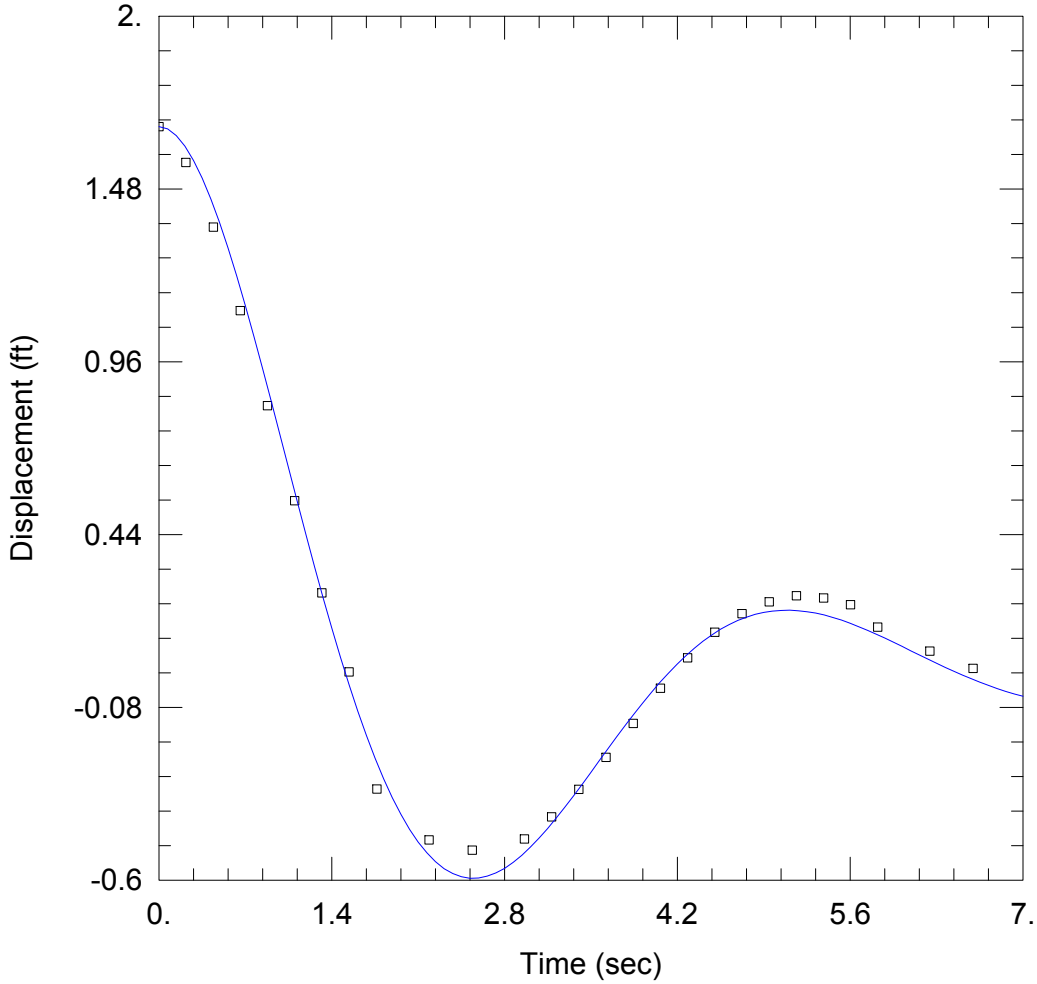
WELL DATA (MW-02D)

Initial Displacement: 2.124 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 293.3 ft/day Le = 20.08 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02d_2.aqt
Date: 06/19/13 Time: 14:22:56

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 2
Test Well: MW-02d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

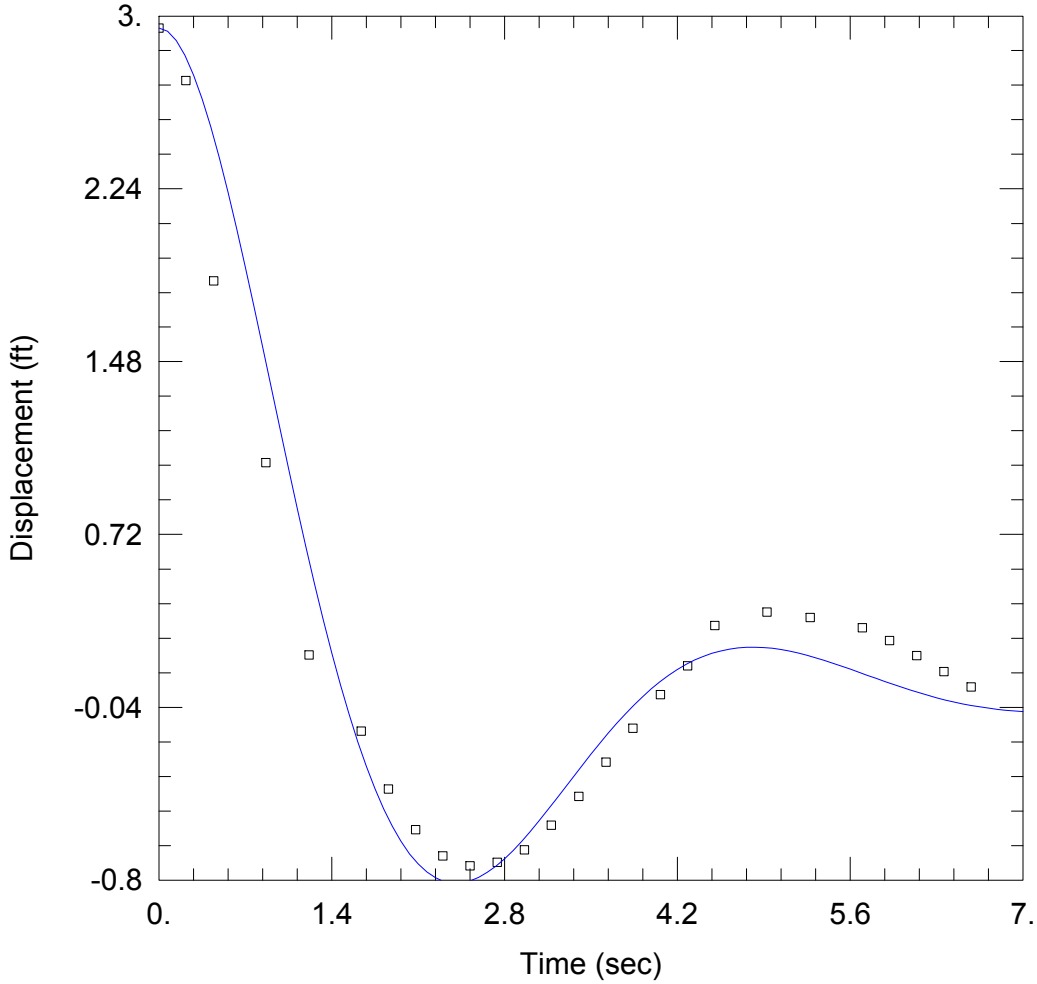
WELL DATA (MW-02D)

Initial Displacement: 1.667 ft Static Water Column Height: 25.19 ft
Total Well Penetration Depth: 25.19 ft Screen Length: 5. ft
Casing Radius: 0.083 ft Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 328.4 ft/day Le = 19.06 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02d_3.aqt
Date: 06/19/13 Time: 14:23:36

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 3
Test Well: MW-02d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

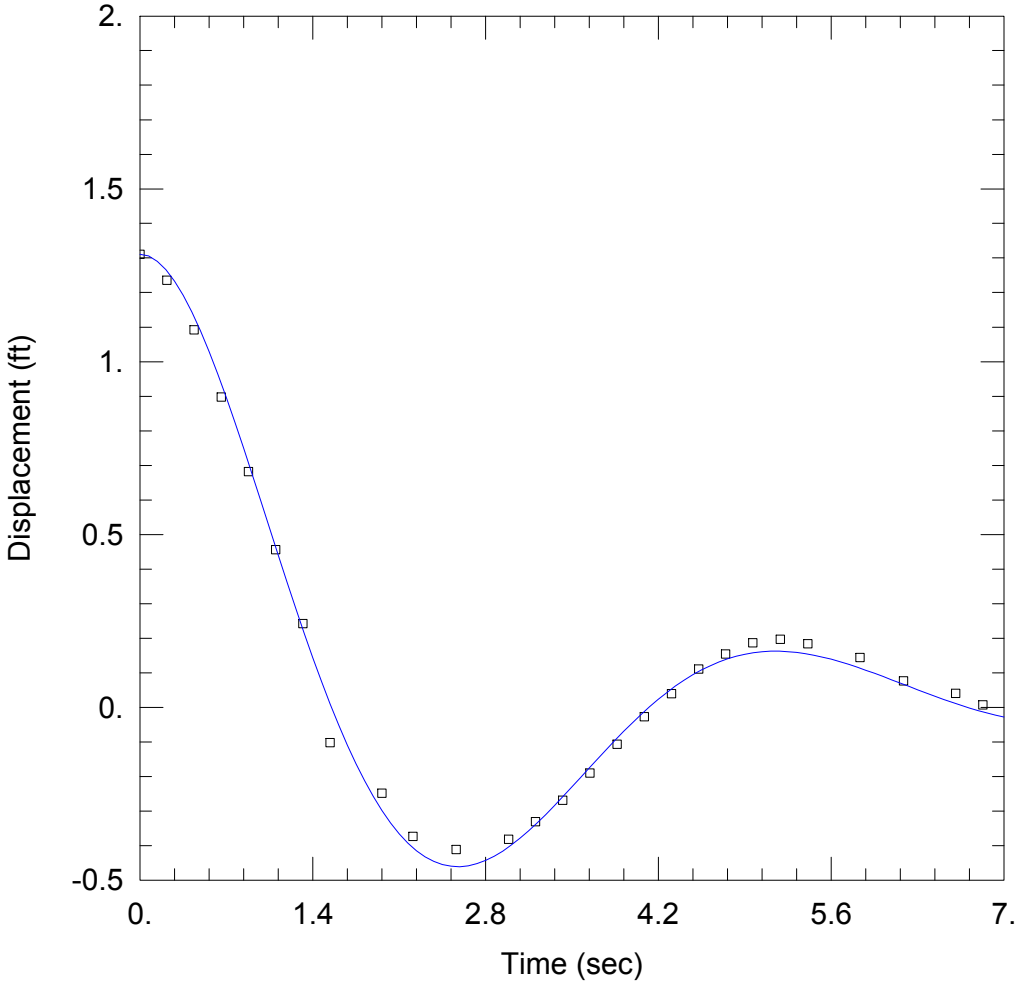
WELL DATA (MW-02D)

Initial Displacement: 2.947 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 292.6 ft/day Le = 16.16 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02d_4.aqt
Date: 06/19/13 Time: 14:24:27

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 4
Test Well: MW-02d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

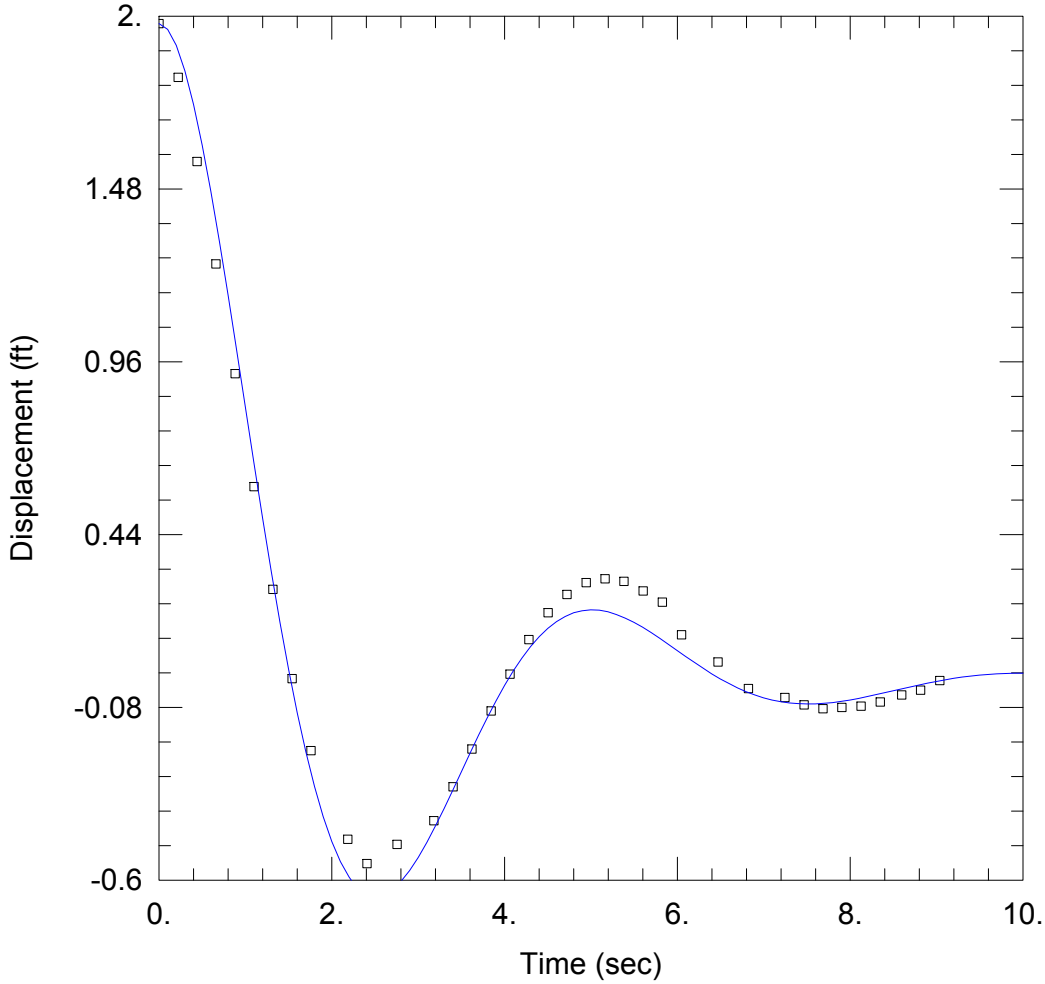
WELL DATA (MW-02D)

Initial Displacement: 1.311 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 320.9 ft/day Le = 19.48 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02d_5.aqt
Date: 06/19/13 Time: 14:25:13

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 5
Test Well: MW-02d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

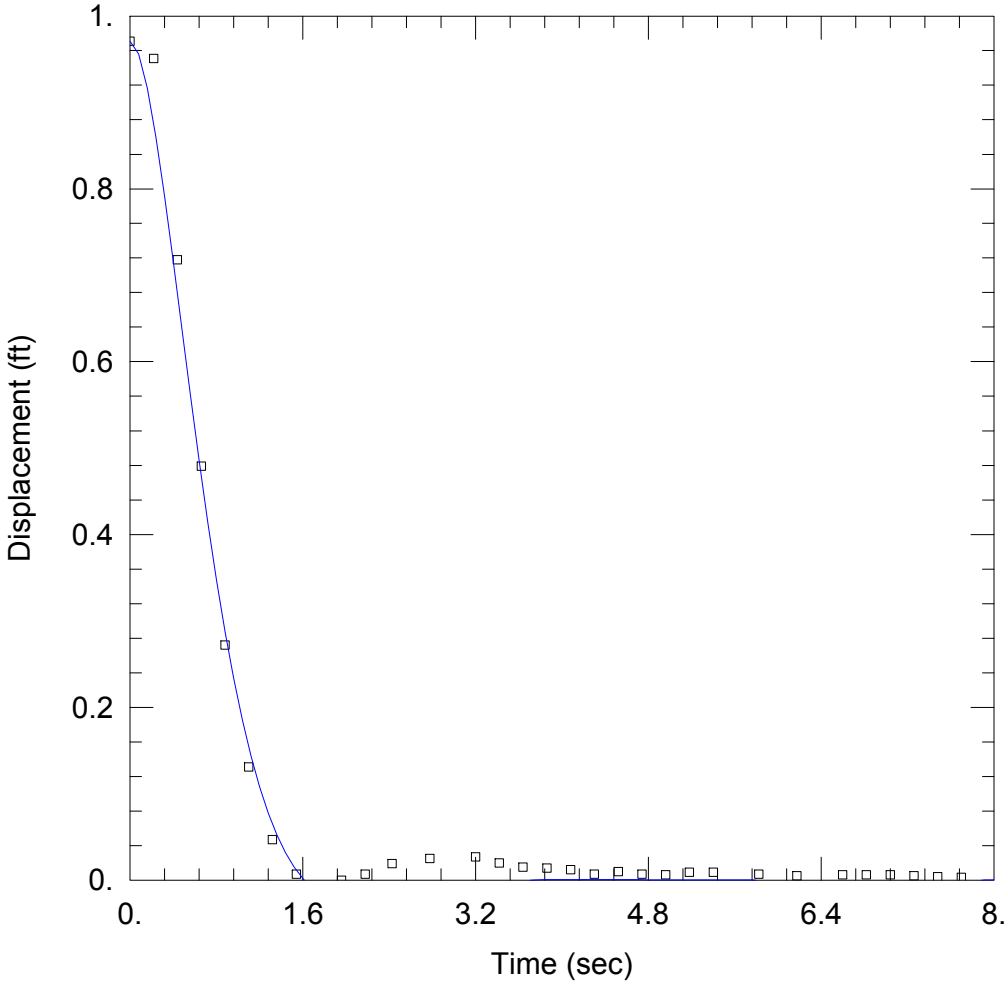
WELL DATA (MW-02D)

Initial Displacement: 1.977 ft
Total Well Penetration Depth: 25.19 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.19 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 313.4 ft/day Le = 18.19 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02s_1.aqt
Date: 06/19/13 Time: 14:26:07

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 1
Test Well: MW-02s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

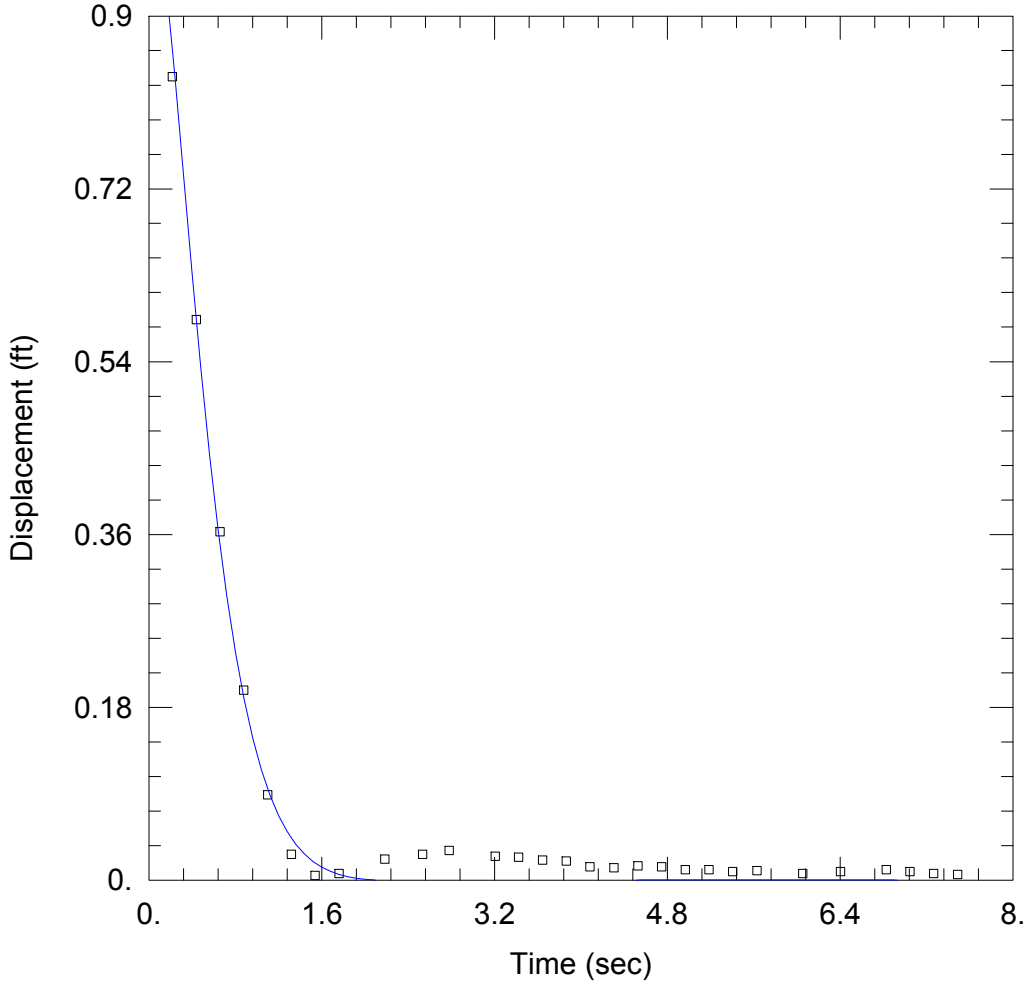
WELL DATA (MW-02S)

Initial Displacement: 0.971 ft Static Water Column Height: 12.72 ft
Total Well Penetration Depth: 12.72 ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 117.6 ft/day Le = 6.104 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02s_2.aqt
Date: 06/19/13 Time: 14:26:47

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 2
Test Well: MW-02s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

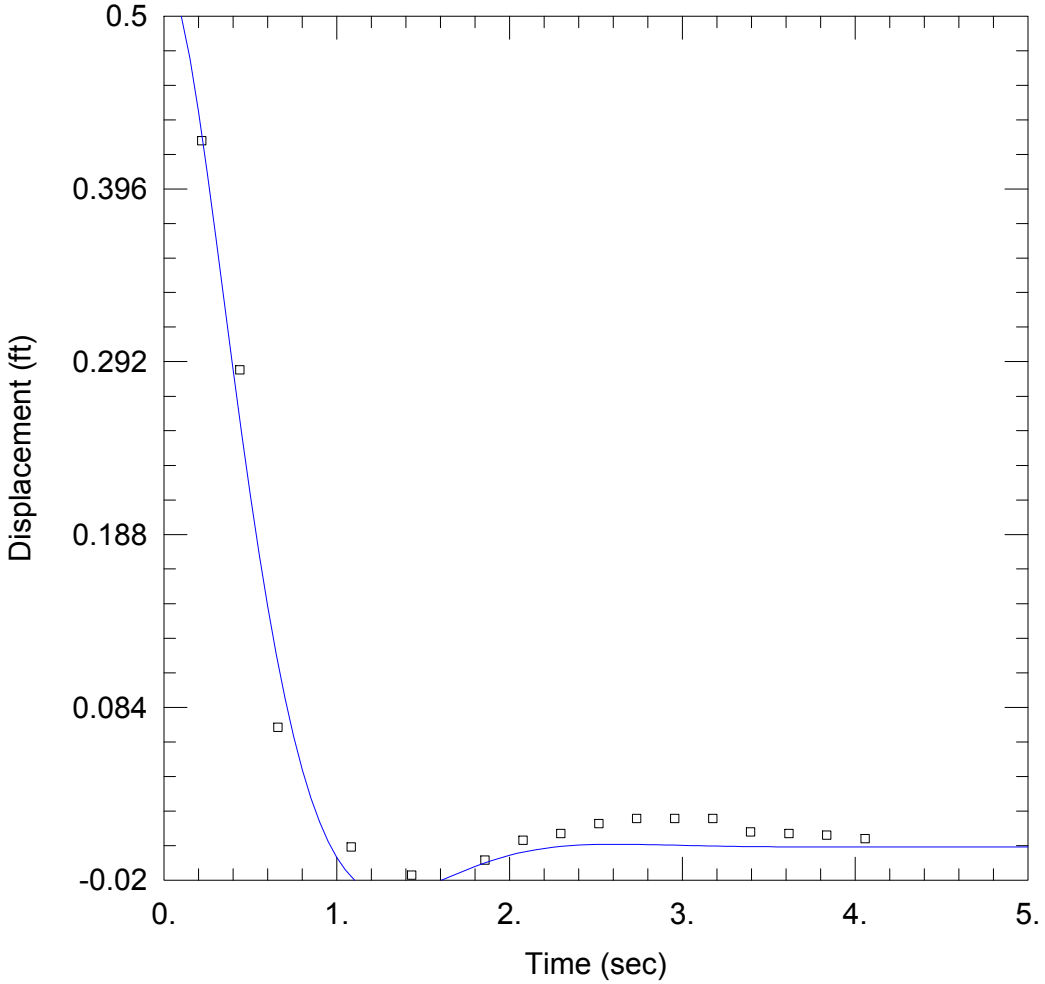
WELL DATA (MW-02S)

Initial Displacement: 1.033 ft Static Water Column Height: 12.72 ft
Total Well Penetration Depth: 12.72 ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 137. ft/day Le = 3.065 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02s_3.aqt
Date: 06/19/13 Time: 14:27:41

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 3
Test Well: MW-02s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

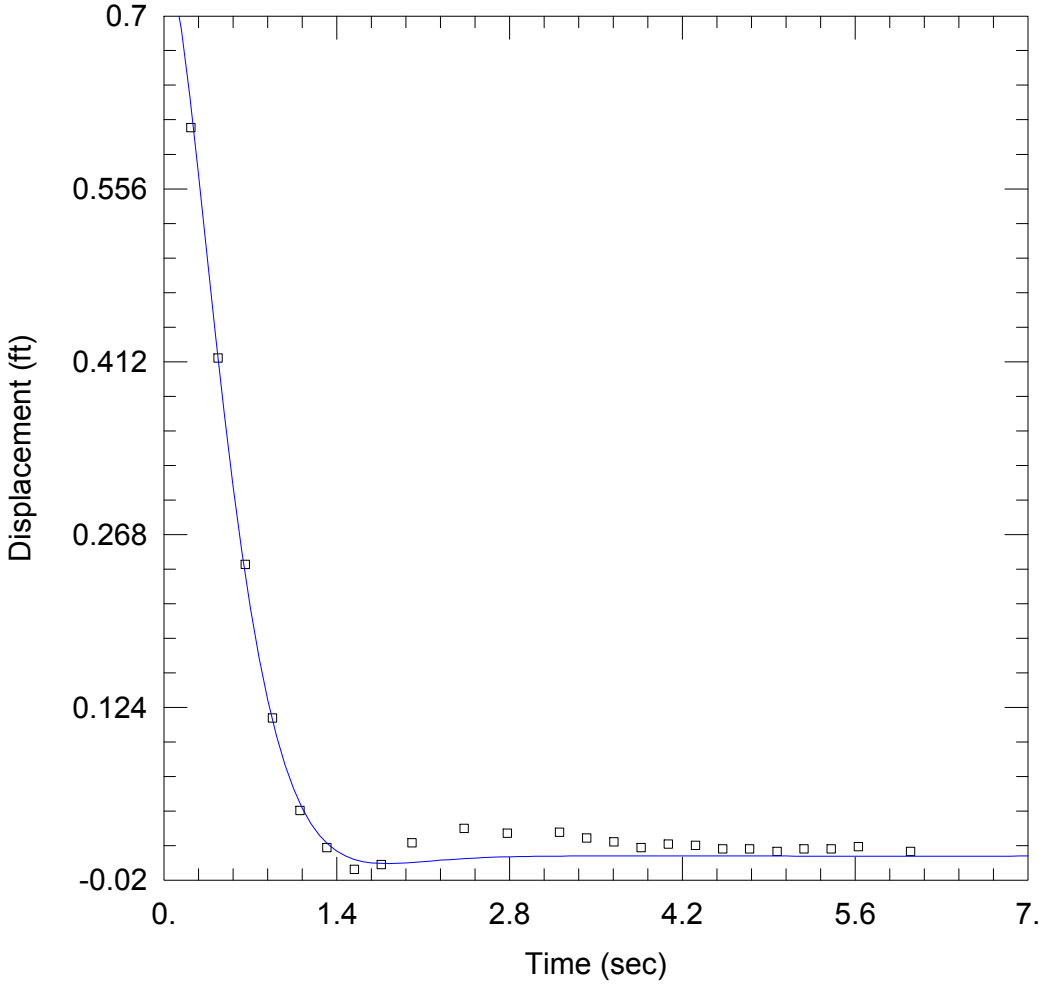
WELL DATA (MW-02S)

Initial Displacement: 0.525 ft
Total Well Penetration Depth: 12.72 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.72 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 186.6 ft/day
Le = 3. ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02s_4.aqt
Date: 06/19/13 Time: 14:28:27

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 4
Test Well: MW-02s
Test Date: 10/29/08

AQUIFER DATA

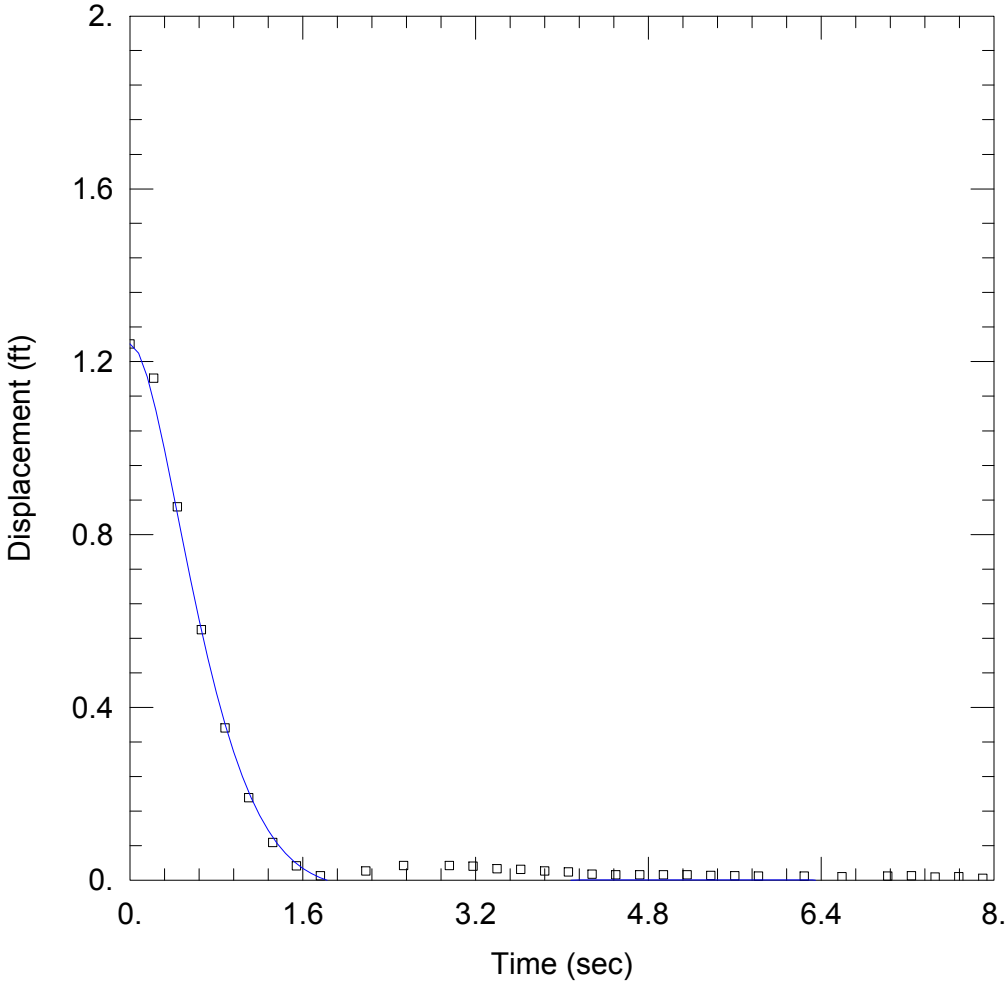
Saturated Thickness: 25.19 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-02S)

Initial Displacement: 0.747 ft
Total Well Penetration Depth: 12.72 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.72 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 147. ft/day
Le = 3.191 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-02s_5.aqt
Date: 06/19/13 Time: 14:29:21

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 5
Test Well: MW-02s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.19 ft Anisotropy Ratio (Kz/Kr): 1.

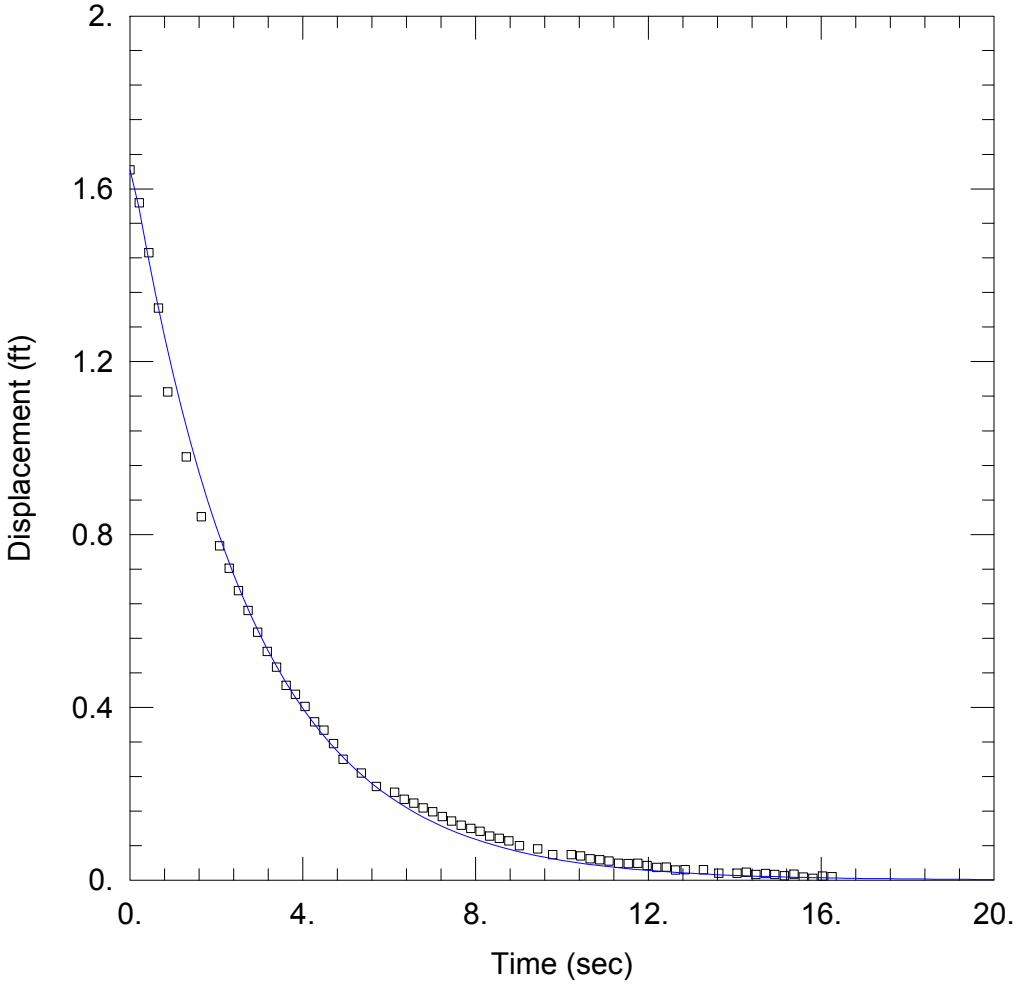
WELL DATA (MW-02S)

Initial Displacement: 1.241 ft
Total Well Penetration Depth: 12.72 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.72 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 114.8 ft/day Le = 5.416 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-03d_1.aqt
Date: 06/19/13 Time: 14:30:05

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 1
Test Well: MW-03d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

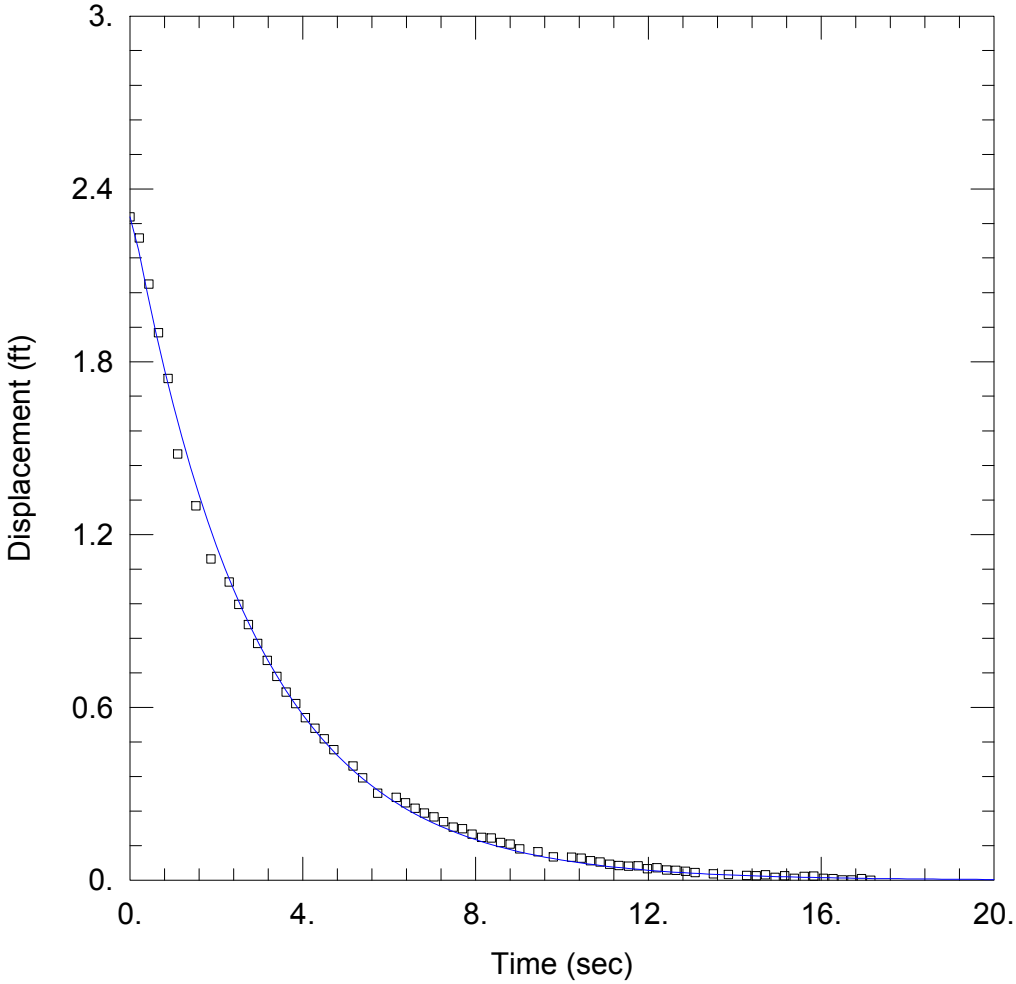
WELL DATA (MW-03D)

Initial Displacement: 1.644 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 54.7 ft/day Le = 5. ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-03d_2.aqt
Date: 06/19/13 Time: 14:30:48

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 2
Test Well: MW-03d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

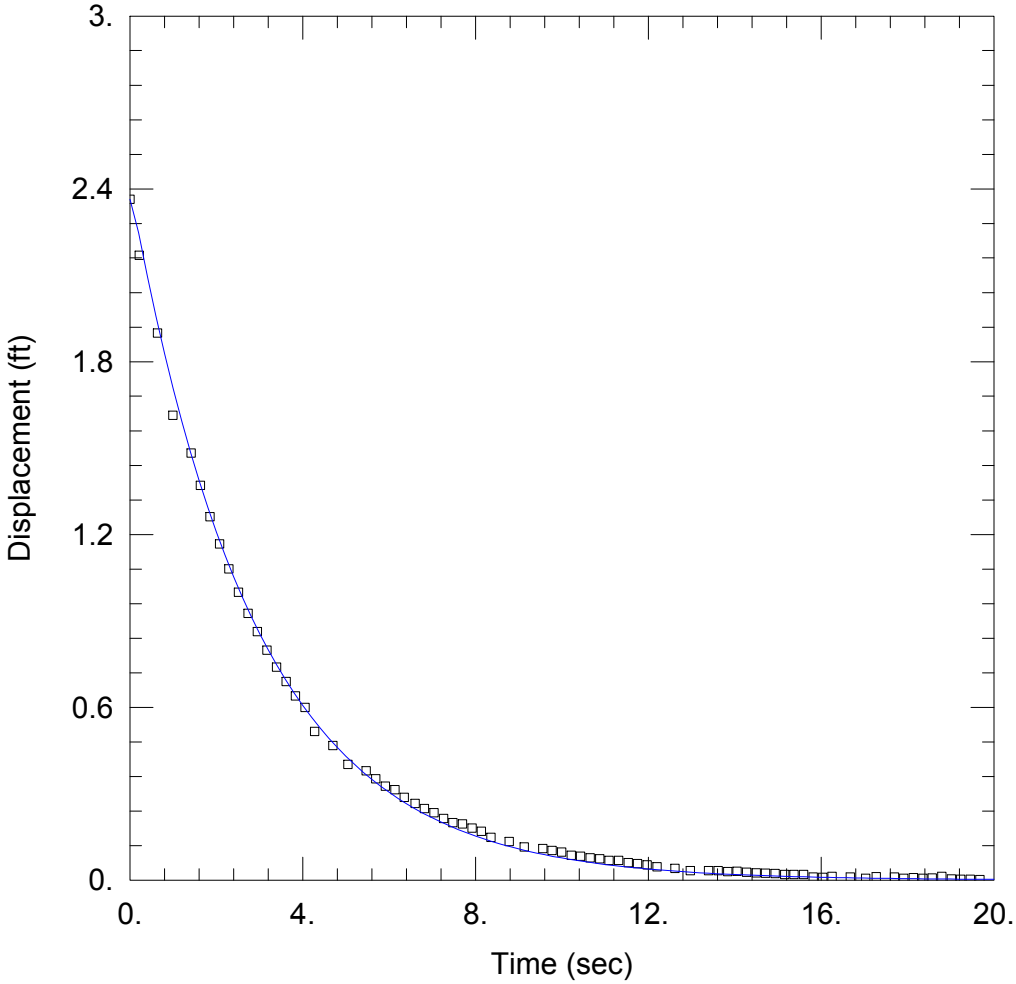
WELL DATA (MW-03D)

Initial Displacement: 2.303 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 53.56 ft/day Le = 5. ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-03d_3.aqt
Date: 06/19/13 Time: 14:31:27

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 3
Test Well: MW-03d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

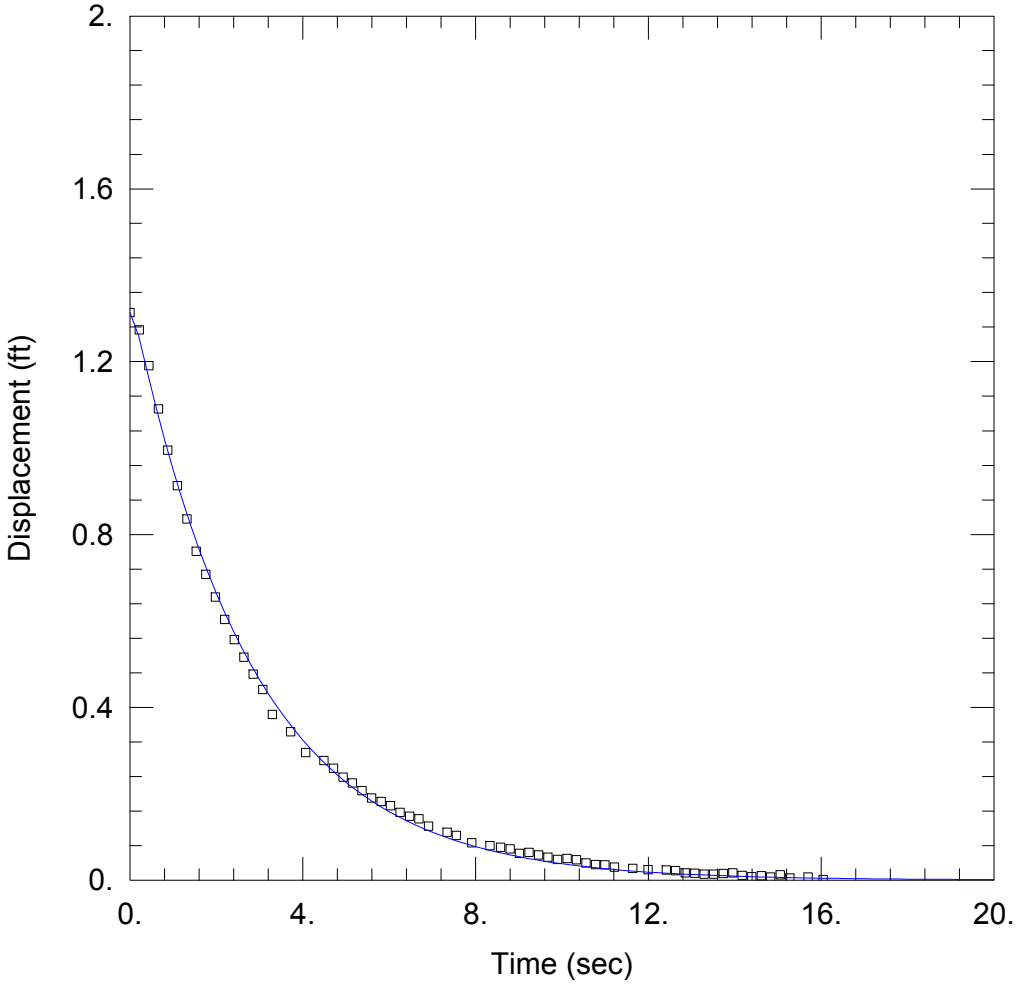
WELL DATA (MW-03D)

Initial Displacement: 2.364 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 52.46 ft/day Le = 5. ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-03d_4.aqt
Date: 06/19/13 Time: 14:32:11

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 4
Test Well: MW-03d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

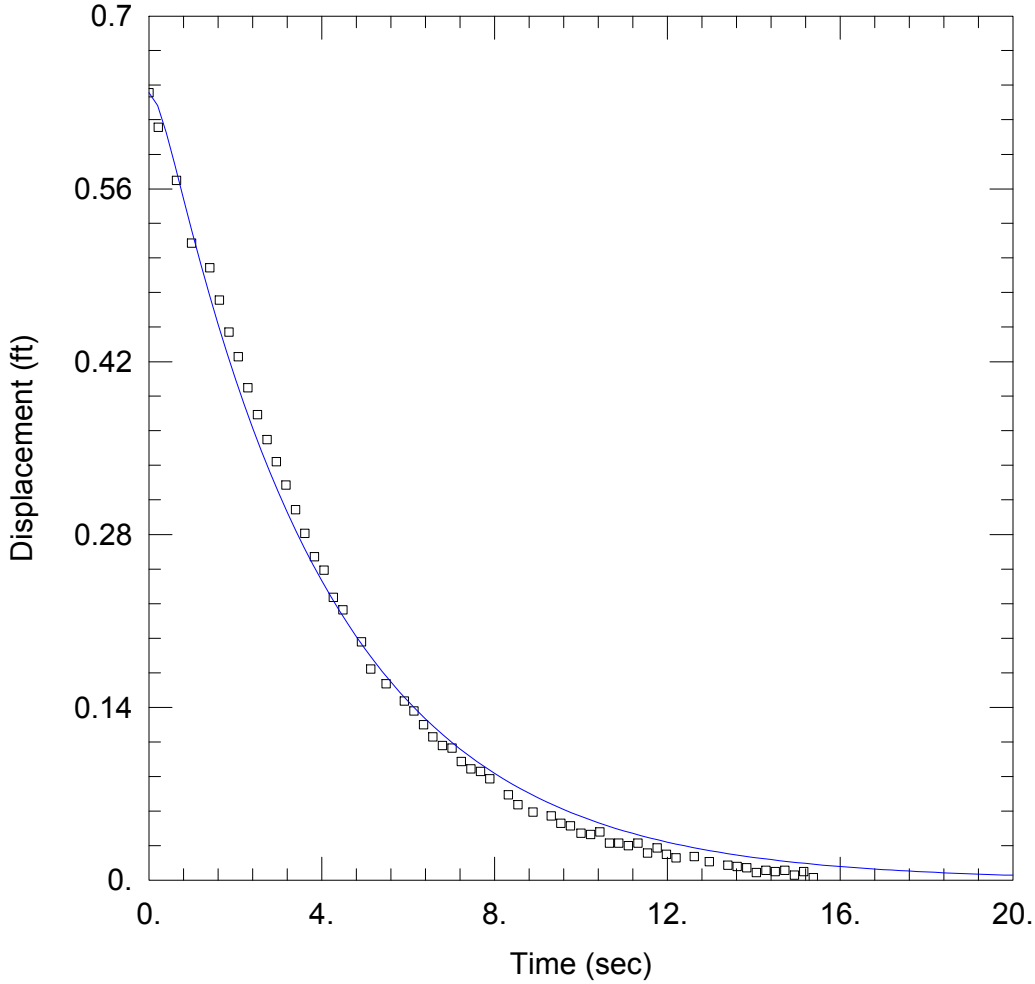
WELL DATA (MW-03D)

Initial Displacement: 1.314 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 53.77 ft/day
Le = 8.17 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-03d_5.aqt
Date: 06/19/13 Time: 14:33:00

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 5
Test Well: MW-03d
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

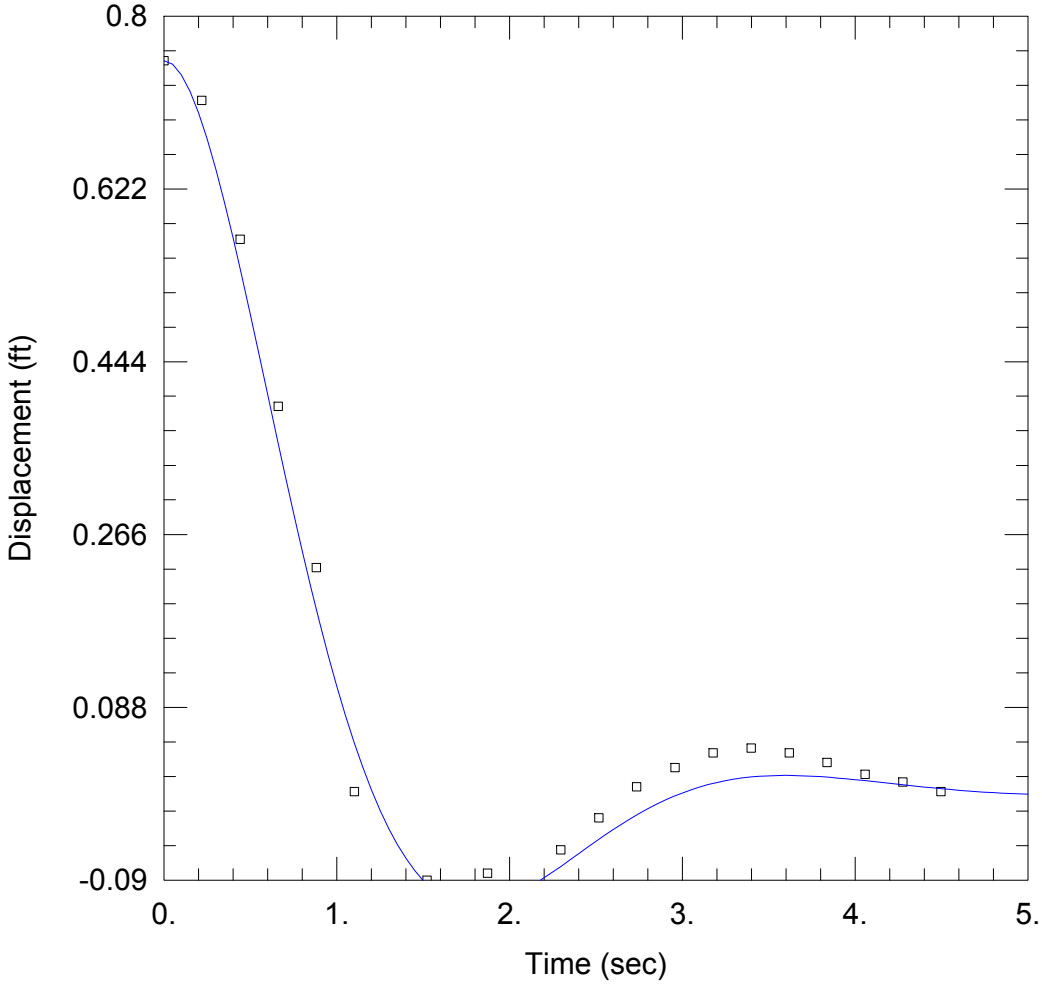
WELL DATA (MW-03D)

Initial Displacement: 0.638 ft
Total Well Penetration Depth: 25.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 25.74 ft
Screen Length: 5. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 37.6 ft/day
Le = 30. ft



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Date: 06/19/13 Time: 14:33:36

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 1
Test Well: MW-03s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

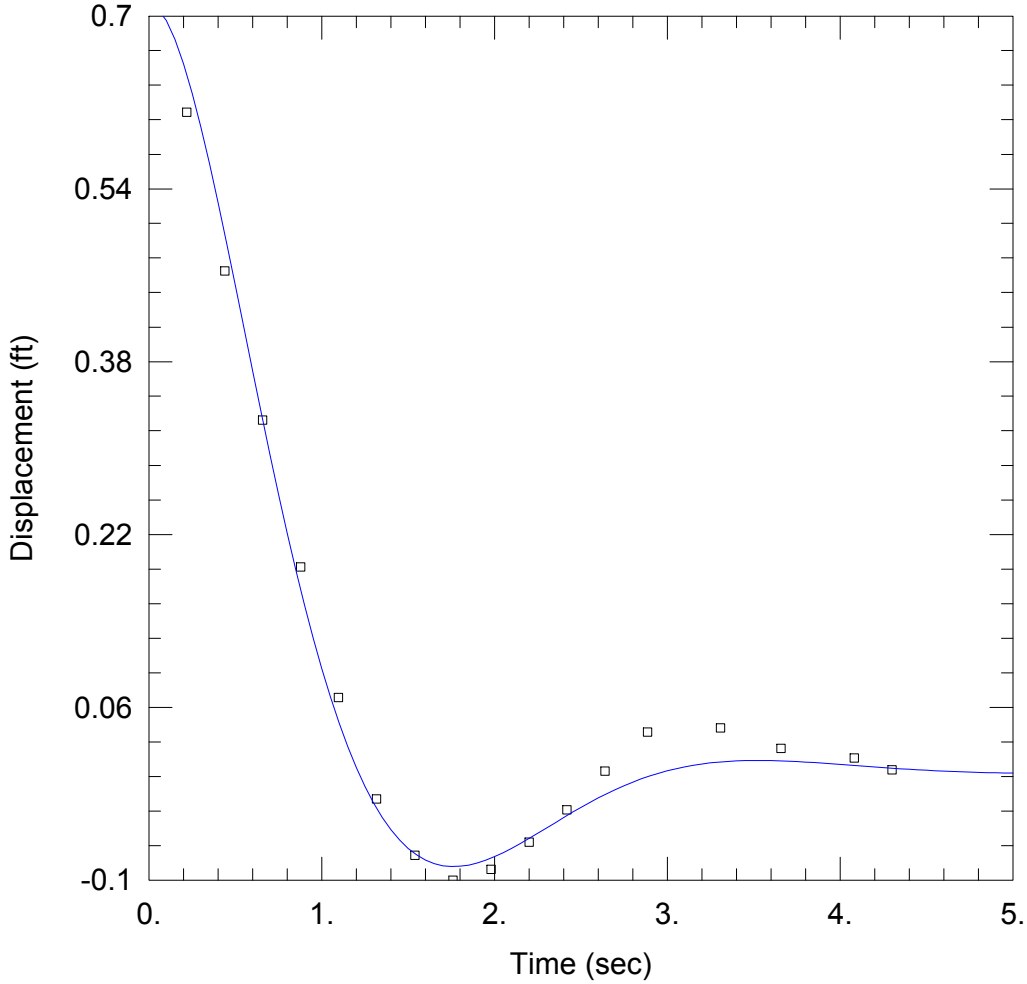
WELL DATA (MW-03S)

Initial Displacement: 0.754 ft
Total Well Penetration Depth: 12.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 153.8 ft/day
Le = 7.781 ft



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Date: 06/19/13 Time: 14:34:08

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 2
Test Well: MW-03s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

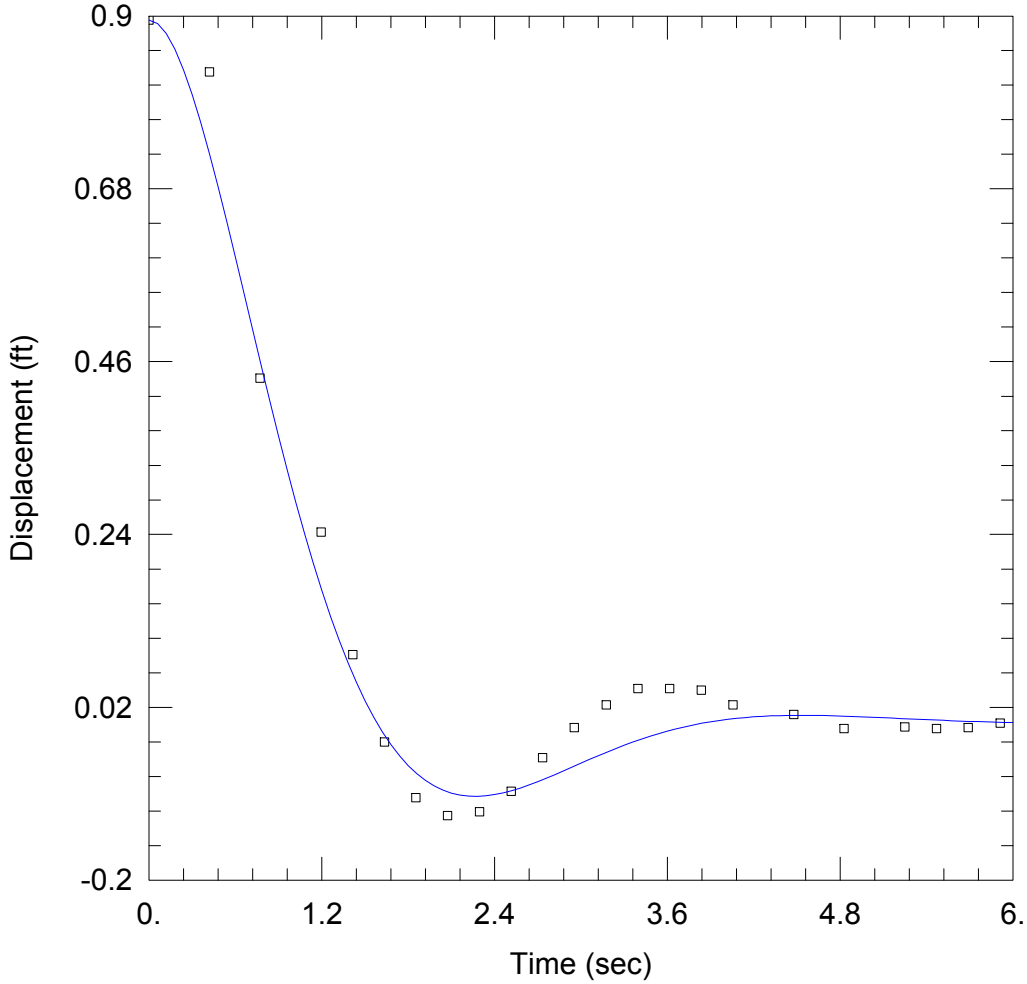
WELL DATA (MW-03S)

Initial Displacement: 0.711 ft
Total Well Penetration Depth: 12.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined Solution Method: Butler

K = 149.5 ft/day Le = 7.014 ft



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Date: 06/19/13 Time: 14:34:42

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 3
Test Well: MW-03s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

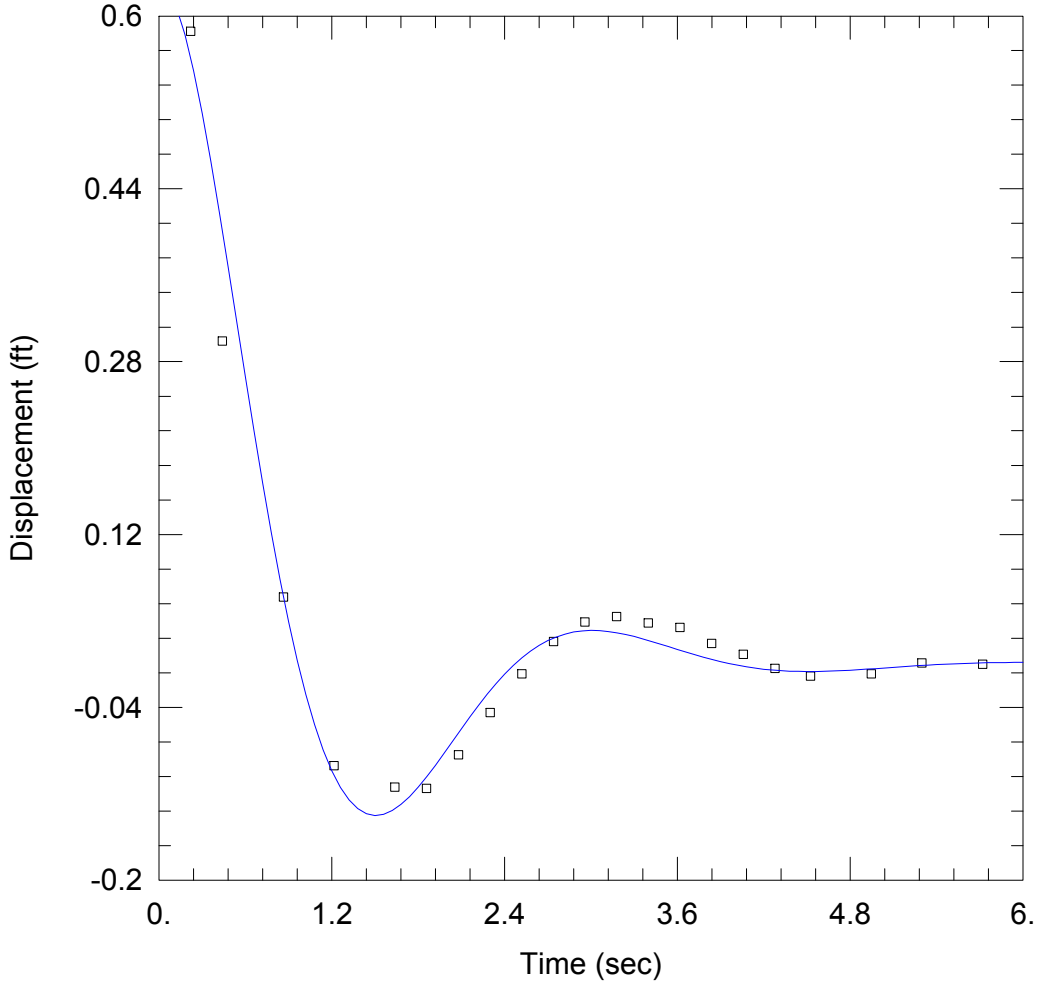
WELL DATA (MW-03S)

Initial Displacement: 0.895 ft
Total Well Penetration Depth: 12.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 113.1 ft/day
Le = 11.04 ft



BRENNTAG

Data Set: C:\Foth\Brenntag\AQTESOLV model files\MW-03s_4.aqt
Date: 06/19/13 Time: 14:35:18

PROJECT INFORMATION

Company: Foth I &E
Client: Brenntag
Project: 0012B477.00
Location: test 4
Test Well: MW-03s
Test Date: 10/29/08

AQUIFER DATA

Saturated Thickness: 25.74 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-03S)

Initial Displacement: 0.631 ft
Total Well Penetration Depth: 12.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.74 ft
Screen Length: 10. ft
Well Radius: 0.75 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Butler

K = 207.8 ft/day
Le = 6.003 ft

Appendix M

Environmental Use Control Agreement

August 28, 2013

Bureau of Environmental Remediation
Curtis State Office Building
1000 SW Jackson St, Suite 410
Topeka, KS 66612-1367

Kansas

RECEIVED
SEP 08 2013
BY:

Phone: 785-296-1673
Fax: 785-296-7030
www.kdheks.gov

Robert Moser, MD, Secretary
Department of Health & Environment
Sam Brownback, Governor

August 28, 2013

CERTIFIED MAIL
Return Receipt Requested

Shawn P. Wiram, Director, Environmental, Health and Safety
Brenntag North America, Inc.
5083 Pottsville Pike
Reading, Pennsylvania 19605

RE: Environmental Use Control Application Approval and Agreement for the Brenntag Southwest, Inc. Site, Sedgwick County, Kansas KDHE Project No. C2-087-71721 EUCA No. 13-EUC-0004

Dear Mr. Wiram:

The Kansas Department of Health and Environment/Bureau of Environmental Remediation (KDHE/BER) has reviewed and approved the Environmental Use Control application and proposed environmental use controls for the referenced Site at 1520 North Barwise, Wichita, Kansas 67214-1330. The application package was submitted by Foth Infrastructure & Environment, LLC on behalf of the landowner of the subject property.

Enclosed you will find the Environmental Use Control Agreement (Agreement) developed by KDHE/BER. The Agreement represents the specific terms and conditions of the environmental use controls to be placed upon the property as requested in the application and deemed necessary by KDHE/BER. Based upon the application and information from KDHE/BER files, the property has been classified as a Category 2 property, which requires a one-time payment of $10,000 to fund the inspections and tracking costs associated with this property for the duration of the Agreement.

Please have the authorized representative for Brenntag Southwest, Inc. review and sign the Agreement with notarization of their signature if the terms and conditions are found to be acceptable. The original Agreement and Exhibit A must then be recorded in the office of the Register of Deeds for Sedgwick County, Kansas. Finally, a complete copy of the Agreement bearing the stamp of the Register of Deeds and requisite funding must be returned to KDHE/BER within ninety (90) days of certified receipt of this letter.

Thank you for your cooperation in this matter. Please contact me by telephone at 785-291-3807 or by e-mail at SAller@kdheks.gov if you have questions concerning this letter.

Sincerely,

Stuart Aller

Stuart Aller, Environmental Scientist
Voluntary Cleanup Unit
Remedial Section

Enclosure

c: Deanna Ross>Holly Burke>Stuart Aller>File>C2-087-71721-(13-EUC-0004)-2
Robert Kick, Foth

DOCUMENT NUMBER: 13-EUC-0004	PROJECT NUMBER: C2-087-71721	PROPERTY CATEGORY: 2

ENVIRONMENTAL USE CONTROL AGREEMENT

Brenntag Southwest, Inc., a Texas corporation, having a mailing address of 5083 Pottsville Pike, Reading, Pennsylvania 19605, hereinafter referred to as the "Owner", is the owner of real property known as the Brenntag Southwest, Inc. Site, located at 1520 North Barwise, Wichita, Kansas 67214-1330, as shown on the map attached hereto and incorporated herein as Exhibit A, hereinafter referred to as the "Property", and more particularly described by the following legal description:

> **TRACT I:**
> **The East Half of the North Half of Lot 2, Except that portion taken for Street, Glaze's Addition to the City of Wichita, Sedgwick County, Kansas.**
>
> **TRACT II:**
> **The East Half of the South Half of Lot 2, Except that portion taken for Street, Glaze's Addition to the City of Wichita, Sedgwick County, Kansas.**

And which shall likewise include any and all parcels contained therein.

WHEREAS the Owner has requested, by application to the Kansas Department of Health and Environment, hereinafter referred to as "KDHE", to restrict, prohibit and/or limit certain uses of the Property in accordance with Kansas Statutes Annotated (K.S.A.) 2012 Supp. 65-1,221 *et seq.*

KDHE has approved the Owner's application to restrict, prohibit, and/or limit certain uses of the Property since residual contamination, which exceeds department standards for unrestricted residential use, remains on the Property.

The conditions at the Property as of the date of KDHE's approval of the application are as follows:

> **Groundwater and soil at the Property are impacted by volatile organic compounds (VOCs) at levels exceeding KDHE's cleanup criteria due to chemical storage and distribution of chlorinated solvents at the facility. The Property includes a single building with combined office, warehouse and loading dock and an adjacent open storage lot. VOC-impacted soil in the source area on the Property was excavated and removed to an appropriate disposal facility. Groundwater monitoring data indicates the source control effort has been effective.**

KDHE has determined, based on conditions at the Property, the application and other information pertaining to the Property, that environmental use controls are appropriate to ensure future protection of public health and the environment, subject to the conditions herein. Therefore, in accordance with K.S.A. 2012 Supp. 65-1,226 and the rules and regulations promulgated thereunder, the Property is hereby designated by KDHE as a Category 2 property.

The Owner acknowledges that this Agreement runs with the land and is binding on all successors in interest in the Property pursuant to K.S.A. 2012 Supp. 65-1,227(b); and is enforceable by KDHE pursuant to K.S.A. 2012 Supp. 65-1,229, unless and/or until such requirements are mutually terminated in writing by KDHE and Owner or Owner's successor in interest. For purposes of the obligations set forth in this document, "Owner" shall be deemed to include the applying Owner and any and all successors in interest.

This Agreement shall be recorded, by the Owner, with the Sedgwick County Register of Deeds for the purposes of providing notice of the environmental use controls, protecting public health and the environment, and to prevent interference with the operation, performance, and/or maintenance of any remedial actions on the Property.

RESTRICTIONS, PROHIBITIONS AND LIMITATIONS:

Due to the environmental conditions described above, it is the desire and intention of the Owner to restrict, prohibit, and/or limit the following uses of the Property:

A. The Property shall not be used for residential purposes of any type including, but not limited to, a residence or dwelling, including a house, apartment, mobile home, nursing home, or condominium; or public use area, including a school, educational center, day care center, playground or similar structure, unrestricted outdoor recreational area, or park.

B. The Owner shall not allow water wells to be drilled, constructed, or used on the Property for domestic purposes, lawn and gardening, or other means, which use involves or may involve human consumption and/or other possible human contact uses. This restriction does not prohibit drilling, construction or use of water wells for the purpose of containing product or contamination, or for contaminated groundwater recovery, monitoring, or other remediation activities as approved in writing by KDHE.

C. The Owner shall not file or petition to initiate re-zoning of the Property without fifteen (15) calendar days prior notification to KDHE.

D. KDHE shall be provided with notification fifteen (15) calendar days prior to any excavation activities. KDHE may require sampling of soils prior to any excavation activities. Based on the potential hazards associated with the soil disturbance activities, KDHE may deny the request to disturb the soils or may require specific protective or remedial actions before allowing such soil disturbance activities to occur on the Property.

E. The Owner shall inform all contractors, lessees, easement holders, and/or other workers performing any excavation activities on the Property, prior to such activities, of the potential hazards associated with the direct contact and/or transport of any potentially contaminated and/or hazardous soil or other material from the Property. Lessees, easement holders, contractors and/or workers shall also be informed by the Owner of any potential hazards associated with releases from contaminated media located on the Property.

F. The Owner shall preserve, protect and replace, as necessary, all permanent survey markers and benchmarks and all environmental monitoring stations that may be installed on the Property.

LOCAL ORDINANCES AND ZONING:

The Owner and KDHE acknowledge that the following local ordinances and zoning requirements in place at the time of recording this Agreement shall be used in addition to the restrictions, prohibitions and limitations set forth in this Agreement.

The Property is zoned Limited Industrial by the Wichita-Sedgwick County Metropolitan Area Planning Department.

ACCESS:

The Owner hereby agrees and conveys to KDHE, its agents, contractors, and employees, access to the Property for the term of this Agreement to enter or come upon the Property to inspect the Property and perform any required action (i.e., monitoring, sampling, etc.) KDHE deems necessary for any one or more of the following purposes:

1. Ensuring that use, occupancy, and activities of and at the Property are consistent with this Agreement;

2. Inspecting protective structures and any other remedial systems to ensure their designed operation, performance and structural integrity;

3. Documenting environmental conditions of and at the Property;

4. Ensuring implementation and enforcement of the requirements, restrictions, prohibitions, and other limitations described in this Agreement; and/or

5. Performing any additional investigations or remediation deemed necessary by KDHE to protect public health and the environment.

DURATION:

The Owner hereby agrees that this Agreement extends in perpetuity unless and/or until removal following approval by KDHE pursuant to K.S.A. 2012 Supp. 65-1,227.

MONITORING AND INSPECTION REQUIREMENTS:

Groundwater monitoring, currently overseen by the KDHE/Bureau of Environmental Remediation under the auspices of the State Cooperative Program, is conducted under an Administrative Order (Case No. 02-E-0279) issued by KDHE to Brenntag Southwest, Inc. in 2002.

KDHE shall visually inspect the Property once every five (5) years documenting information on the condition and current uses of the Property in a written report that shall include inspection findings, photo documentation and any other information required to verify if the terms and conditions of this Agreement are being fulfilled. KDHE may consider modifications of the frequency of inspection and reporting if warranted by technical data.

MAINTENANCE REQUIREMENTS:

The Owner hereby agrees to provide maintenance of the pavement (i.e. concrete cover) on the Property and correct deficiencies as outlined by KDHE to minimize any potential leaching of residual contamination to groundwater. Maintenance includes, but is not limited to, monitoring, inspection, and repairs to the pavement. Repairs may include pavement sealing and replacement. Such repairs may be necessary to correct the effects of settlement, subsidence, erosion, or other events including widening of cracks or other openings, which may provide for potential leaching of residual contamination to groundwater.

FUNDING:

The Owner hereby agrees to submit to KDHE a one-time payment of $10,000 to compensate KDHE for costs incurred to perform inspections, monitoring, and tracking of the terms and requirements of this Agreement. The Owner acknowledges that the funding requirement for this Agreement is based on the size of the Property, physical properties of residual contamination, types of protective structures at the Property, frequency of KDHE's anticipated inspections and anticipated inspection costs.

OTHER TERMS AND CONDITIONS:

The Owner hereby agrees to provide KDHE written notification no less than fifteen (15) calendar days prior to any sale, lease, conveyance or other transfer of the Property. The notice shall include the name and business address (if applicable) of the transferee and the expected date of transfer.

The Owner shall cause any lease, grant, or other transfer of any interest in the Property to include a provision expressly requiring the lessee or transferee to comply with the terms of this Agreement. The failure to include such a provision shall not affect the validity or applicability to the Property of this Agreement.

The Owner hereby agrees to provide KDHE a copy of the recorded deed with legal description and corresponding survey map for which this Agreement applies within fifteen (15) calendar days of real property conveyance.

The Owner hereby agrees to provide KDHE written notification no less than fifteen (15) calendar days prior to any land use changes at the Property.

The Owner acknowledges that the requirements in this Agreement may not be extinguished, limited or impaired through adverse possession, abandonment, waiver, lack of enforcement, or other common law principles, pursuant to K.S.A. 2012 Supp. 65-1,227(e).

This Agreement may be modified by mutual written agreement by the Owner and KDHE. Within thirty (30) calendar days of executing an amendment, modification, or termination of this Agreement, the Owner shall record such amendment, modification, or termination with the Sedgwick County Register of Deeds, and within thirty (30) calendar days thereafter, the Owner shall provide a copy of the recorded amendment, modification, or termination to KDHE that bears the seal and/or notarized signature of the Register of Deeds.

ENFORCEABILITY:

If the terms of this Agreement are not being implemented by the Owner or contamination at the Property presents a hazard to public health or the environment, KDHE may take such action as authorized by K.S.A. 2012 Supp. 65-1,229, including:

A. Issue an order directing the Owner to correct any deficiencies and fully implement the terms of this Agreement.

B. Issue an order retracting this Agreement and any remedial action at the Property and requiring the Owner to implement a remedial action at the Property to attain a cleanup standard that will allow for unrestricted use of the Property.

EFFECTIVE DATE OF AGREEMENT:

The Owner shall provide to KDHE a copy of this Agreement bearing the seal or notarization of the Register of Deeds in **Sedgwick County** within ninety (90) days from **certified receipt** of this fully executed Agreement from KDHE.

The Owner shall provide KDHE with funding as determined by KDHE in accordance with K.S.A. 2012 Supp. 65-1,226 within ninety (90) days from **certified receipt** of this fully executed Agreement from KDHE.

Proper recording of all necessary documents and submission of required funding shall be conditions precedent to the effectiveness of this Agreement.

IN WITNESS WHEREOF, KDHE and the Owner have entered into and executed this Environmental Use Control Agreement through their duly authorized representatives as of this 27 day of August, 2013.

Kansas Department of Health and Environment

By: Robert Moser
Robert Moser, MD, Secretary

ACKNOWLEDGMENT:

STATE OF KANSAS)
)ss:
COUNTY OF SHAWNEE)

BE IT REMEMBERED, on this 27th day of August, 2013, before me, the undersigned, a Notary Public in and for the State aforesaid, came Robert Moser, MD, Secretary and authorized representative of KDHE, who is personally known to be such person who executed the above document on behalf of KDHE, and such person duly acknowledged the execution of the same to be his/her act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Shawnee County, Kansas, the day and year last written above.

Melissa L. Rosdahl
Notary Public in and for said State

NOTARY PUBLIC - State of Kansas
MELISSA L. ROSDAHL
My Appt Expires 04-25-16

Corporation: **Brenntag Southwest, Inc.**

By:_____ Date:_____

Print Name:_____

Title:_____

ACKNOWLEDGMENT:

STATE OF _____)
)ss:
COUNTY OF _____)

BE IT REMEMBERED, on this _____ day of _____, 2013, before me, the undersigned, a Notary Public in and for the County and State aforesaid, came _____, authorized representative of Brenntag Southwest, Inc., who is personally known to be such person who executed the above document on behalf of said corporation, and such person duly acknowledged the execution of the same to be his/her act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in _____ County, _____, the day and year last written above.

_____
Notary Public in and for said County and State

My Term Expires: _____

0 50 100 200 Feet

N

LEGEND

Local Roads

EUC Area (approximate)

Exhibit A

Brenntag Southwest, Inc.
Wichita, Kansas
13-EUC-0004

Kansas Department of Health and Environment

Map Created by SA: August 13, 2013

Tract In SE/4 of SW/4 of Sec. 9, T27S, R01E

Appendix N

Kansas Geological Survey Well Search

Township 27 South, Range 1 East, Sections 9 and 16

Kansas Geological Survey Well Search
Section 9, T27S, R1E

WELL_ID	COUNTY	TOWNSHIP	TWN_DIR	RANGE	RANGE_DIR	SECTION	SPOT	LONGITUDE	LATITUDE	LONG_LAT_TYPE	OWNER	WELL_USE	COMPLE_DATE	STATUS	OTHER_ID	DWR_NUMBER	DIRECTIONS	WELL_DEPTH	ELEV	STATIC_DEPTH	EST_YIELD	DRILLER	WELL_KID
66371	Sedgwick	27	S	1	E	9	SESWSW	-97.3319136	37.7089596	From PLSS	City of Wichita	Monitoring well/observation/piezometer	31-Mar-93	CONSTRUCTED			650 E 13TH WICHITA KANSAS	20		13		Groundwater Technology	1040305943
66372	Sedgwick	27	S	1	E	9	SWSWSW	-97.3341986	37.7089486	From PLSS	CARE BEKK ESTAT	Domestic	30-Jul-93	PLUGGED			LOCATED IN BASEMENT OF BUILDING	20		6		Layne Christensen Co.	1044000076
66374	Sedgwick	27	S	1	E	9	SW SW SW	-97.3341986	37.7089486	From PLSS	Bell Estate	Domestic	20-Jul-93	PLUGGED			in basement of bldg.	21		6		Layne Christensen Co.	1044000077
66375	Sedgwick	27	S	1	E	9	SW SW SW	-97.3341986	37.7089486	From PLSS	Bell Estate	Domestic	30-Jul-93	PLUGGED			in basement of bldg.	22		6		Layne Christensen Co.	1044000079
66378	Sedgwick	27	S	1	E	9	NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N Mosley, Wichita	20		13.7		GSI Engineering, LLC	1040305953
66431	Sedgwick	27	S	1	E	9	SE NW NE	-97.3227623	37.7198324	From PLSS	Derby Refining Co	Other	4-Oct-88	CONSTRUCTED		88909	W 2044 N Cleveland, Wichita	30		18		Hydro Resources Mid Continent, Inc.	1040306595
66434	Sedgwick	27	S	1	E	9	NE NE NE	-97.3181904	37.7216457	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	23-Sep-88	CONSTRUCTED			Cleveland and 21st St, Wichita	25		11		Hydro Resources Mid Continent, Inc.	1040306601
66435	Sedgwick	27	S	1	E	9	NW NE NE	-97.3204754	37.7216415	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	21-Sep-88	CONSTRUCTED			Cleveland and 20th St, Wichita	30		15		Hydro Resources Mid Continent, Inc.	1040306603
66437	Sedgwick	27	S	1	E	9	SW NE NE	-97.3204773	37.7198376	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	22-Aug-84	CONSTRUCTED			465 S and 340 E of 21st and Cleveland, Wichita	29				David W. Daniels Drilling Company	1040306607
66440	Sedgwick	27	S	1	E	9	SWSWNW	-97.3341911	37.7161871	From PLSS		Lawn and Garden - domestic only	28-Jul-83	CONSTRUCTED				42		17		Harp Well & Pump Service, Inc.	1040306613
66441	Sedgwick	27	S	1	E	9	SWSENW	-97.3296211	37.7162014	From PLSS		Air Conditioning	7-Mar-80	CONSTRUCTED				40		15		Harp Well & Pump Service, Inc.	1040306615
66445	Sedgwick	27	S	1	E	9	SENWNE	-97.3227623	37.7198324	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED				25		13		David W. Daniels Drilling Company	1040306623
66450	Sedgwick	27	S	1	E	9	NENWSE	-97.3227679	37.714418	From PLSS		Irrigation	1-Mar-78	CONSTRUCTED				33		13	400	Layne Christensen Co.	1040306633
66455	Sedgwick	27	S	1	E	9	SENWNE	-97.3227623	37.7198324	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED				25		12		David W. Daniels Drilling Company	1040306643
66459	Sedgwick	27	S	1	E	9	NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		11		David W. Daniels Drilling Company	1040306651
66464	Sedgwick	27	S	1	E	9	NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		13		David W. Daniels Drilling Company	1040306661
66471	Sedgwick	27	S	1	E	9	NWNWSE	-97.3250529	37.7144099	From PLSS	GRUBB	Domestic	10-Aug-84	CONSTRUCTED			8405 SOUTH LULU WICHITA KANSAS	40		15		Harp Well & Pump Service, Inc.	.
66476	Sedgwick	27	S	1	E	9	NE	-97.3216208	37.7189329	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	24-Jan-84	CONSTRUCTED			1380 S and 150 W of 21st and Cleveland, Wichita	22	1311			David W. Daniels Drilling Company	1040306685
66481	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	26-Jun-91	CONSTRUCTED			518 E. 18th St, Wichita	28		18		GSI Engineering, LLC	1040306695
66391	Sedgwick	27	S	1	E	9	SESENW	-97.3273361	37.7162086	From PLSS	RITHCHIE	Monitoring well/observation/piezometer	2-Apr-91	CONSTRUCTED			NW CORNER OF 17TH AND MOSLEY	35		14		Groundwater Technology	1040306251
66395	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Other	26-Jun-91	PLUGGED			618 E 18th St, Wichita	10				GSI Engineering, LLC	1044000062
66396	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Other	26-Jun-91	PLUGGED			518 E 18th St, Wichita	2				GSI Engineering, LLC	1044000061
66398	Sedgwick	27	S	1	E	9	SW SE NW	-97.3296211	37.7162014	From PLSS	Bartels Shores	Monitoring well/observation/piezometer	1-Apr-91	CONSTRUCTED			700 E 17th, Wichita	46		18		Groundwater Technology	1040306263
66402	Sedgwick	27	S	1	E	9	NENW	-97.3284739	37.720723	From PLSS	C W FEED PROD I	Monitoring well/observation/piezometer	11-Jan-90	CONSTRUCTED			2009 N MOSLEY WICHITA KS	20		15		HWS Consulting Group Inc.	1040306271
66403	Sedgwick	27	S	1	E	9	NENENE	-97.3181904	37.7216457	From PLSS	NOVICK IRN&METL	Monitoring well/observation/piezometer	4-Oct-90	CONSTRUCTED			180' E AND 300' S OF 1007 EAST 21ST ST N WICHITA KS	28	1310	0		Terracon Consultants, Inc.	1040306273
66404	Sedgwick	27	S	1	E	9	SESENE	-97.3181961	37.7162371	From PLSS	WNID-MCADAMS	Monitoring well/observation/piezometer	29-Mar-91	CONSTRUCTED			1520 E. 17TH WICHITA, KANSAS	22		142		Groundwater Technology	1040306275
66408	Sedgwick	27	S	1	E	9	NWSWNW	-97.3341892	37.7179968	From PLSS	MICHAELIS JR	Monitoring well/observation/piezometer	6-Nov-89	CONSTRUCTED			19TH & BROADWAY	24		18		Groundwater Technology	1040306283
66411	Sedgwick	27	S	1	E	9	SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	4-Dec-89	CONSTRUCTED			E of Mosely St, Wichita	25	1310	15		HWS Consulting Group Inc.	1040306289
66413	Sedgwick	27	S	1	E	9	SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	4-Dec-89	CONSTRUCTED			E of Mosely St, Wichita	20	1308	14		HWS Consulting Group Inc.	1040306293
66420	Sedgwick	27	S	1	E	9	SE NW NE	-97.3227623	37.7198324	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	15-Sep-88	CONSTRUCTED			Cleveland and 19th St, Wichita	30		17		Hydro Resources Mid Continent, Inc.	1040306307
66424	Sedgwick	27	S	1	E	9	NWSWNW	-97.3341892	37.7179968	From PLSS	RALSTON PURINA	Monitoring well/observation/piezometer	30-Jun-88	CONSTRUCTED			18TH & TOPEKA WICHITA KS	20		18		Layne Christensen Co.	1040306315
66426	Sedgwick	27	S	1	E	9	NE NW NE	-97.3227604	37.7216372	From PLSS	Derby Refining Co	Other	6-Oct-88	CONSTRUCTED		88911	350' S of 2044 N Cleveland, Wichita	31		14		Hydro Resources Mid Continent, Inc.	1040306319
66428	Sedgwick	27	S	1	E	9	NW NE NE	-97.3204754	37.7216415	From PLSS	Derby Refining Co	Other	3-Oct-88	CONSTRUCTED			W 2004 N Cleveland, Wichita	26		14		Hydro Resources Mid Continent, Inc.	1040306323
66483	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Other	26-Jun-91	PLUGGED			518 E 18th St, Wichita	21		16		GSI Engineering, LLC	1044000064
66484	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Other	26-Jun-91	PLUGGED			518 E 18th St, Wichita	16		14		GSI Engineering, LLC	1044000060
66485	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Other	26-Jun-91	PLUGGED			518 E 18th St, Wichita	10				GSI Engineering, LLC	1044000059
66487	Sedgwick	27	S	1	E	9	NENWNW	-97.3319004	37.7216203	From PLSS	STEVENS	Monitoring well/observation/piezometer	30-Jul-92	CONSTRUCTED			515 E 21ST STREET WICHITA KANSAS KANSAS	25		0		GSI Engineering, LLC	1040306982
66489	Sedgwick	27	S	1	E	9	NE NW NW	-97.3319004	37.7216203	From PLSS	STEVENS	Monitoring well/observation/piezometer	7-Aug-92	CONSTRUCTED			515 E 21st St., Wichita	40				GSI Engineering, LLC	1040306986
66490	Sedgwick	27	S	1	E	9	NCNWNW	-97.3330429	37.7216182	From PLSS	STEVENS	Monitoring well/observation/piezometer	7-Aug-92	CONSTRUCTED			515 E 21ST STREET	27		0		GSI Engineering, LLC	1040306988
66500	Sedgwick	27	S	1	E	9	SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosley, Wichita	20		15		Layne Christensen Co.	1040307008
66503	Sedgwick	27	S	1	E	9	NENESW	-97.3273379	37.7144018	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			1655 N. MOSLEY, WICHITA, KANSAS	35		13		Groundwater Technology	1040307014
66504	Sedgwick	27	S	1	E	9	NENESW	-97.3273379	37.7144018	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			1655 N. MOSLEY, WICHITA KS	18		13		Groundwater Technology	1040307016
66509	Sedgwick	27	S	1	E	9	SWNESW	-97.3296248	37.712586	From PLSS	City of Wichita	Monitoring well/observation/piezometer	2-Apr-93	CONSTRUCTED			200' NE CORNER 15TH & SANTA FE WICHITA, KS	19		0		Groundwater Technology	1040307026
66383	Sedgwick	27	S	1	E	9	NC NC NW	-97.3307579	37.7216224	From PLSS	Security Oil	Monitoring well/observation/piezometer	22-Oct-93	CONSTRUCTED			1910 N Mosely, Wichita	26				GeoCore, Inc.	1040306235
66386	Sedgwick	27	S	1	E	9	SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	17-Aug-93	CONSTRUCTED			1820 N Mosely, Wichita	17	1306	11		Professional Engineering Consultants, PA	1040306241
66389	Sedgwick	27	S	1	E	9	SE SW NE	-97.3227661	37.7162228	From PLSS	Coastal Refinery	Monitoring well/observation/piezometer	16-Mar-94	CONSTRUCTED			17th and Matheuson	30		15		Layne Christensen Co.	1040306247
97157	Sedgwick	27	S	1	E	9	SE SE SW	-97.3273436	37.7089816	From PLSS	Cargill Inc.	Industrial	30-Jan-95	PLUGGED			N of ESISTING Fuel Station	35				Layne Western	1044000037
98766	Sedgwick	27	S	1	E	9	NW NE NE	-97.3204754	37.7216415	From PLSS	Coastal Refinery	Monitoring well/observation/piezometer	11-May-95	CONSTRUCTED			1100 E 21st, Wichita	30		15		Harp Well & Pump Service, Inc.	1040365383
103412	Sedgwick	27	S	1	E	9	SESESW	-97.3273436	37.7089816	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	8-Nov-95	CONSTRUCTED			10' N 13TH ST & 30' W MOSLEY ST WICHITA KS	18	1304.1	11.3		GeoCore, Inc.	1040366250
103418	Sedgwick	27	S	1	E	9	NENENW	-97.3273304	37.7216288	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	9-Nov-95	CONSTRUCTED			10' E 13TH ST & 90' S MOSLEY ST WICHITA KS	18	1303.9	11.4		GeoCore, Inc.	1040366497
103426	Sedgwick	27	S	1	E	9	SESESW	-97.3273436	37.7089816	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	9-Nov-95	CONSTRUCTED			200' N 13TH ST & 50' W MOSLEY ST WICHITA KS	18	1305.4	13		GeoCore, Inc.	1040366513
103811	Sedgwick	27	S	1	E	9	NWNENE	-97.3204754	37.7216415	From PLSS	MARVIN	Lawn and Garden - domestic only	29-Nov-95	PLUGGED			CELLAR-1522 N ST FRANCIS	11		8			1044000016
103043	Sedgwick	27	S	1	E	9	SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Other	1-Oct-95	CONSTRUCTED			150' EAST & 30' N of Centerline of Mosley and 19	35		35		GeoCore, Inc.	1040368980
103948	Sedgwick	27	S	1	E	9	SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	23-Oct-95	CONSTRUCTED			100 Yards N of S Entrance off 17th St	22	1306.85	17		Professional Engineering Consultants, PA	1040375154
118882	Sedgwick	27	S	1	E	9	NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	13-Sep-97	CONSTRUCTED	MW 5D		1707 North Mosley, Wichita	38		13		Davis Environmental Drilling, LLC	1040395281
118891	Sedgwick	27	S	1	E	9	NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	10-Sep-97	CONSTRUCTED	MW 4S		1707 North Mosley, Wichita	18		13		Davis Environmental Drilling, LLC	1040395299
118893	Sedgwick	27	S	1	E	9	NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	9-Sep-97	CONSTRUCTED	MW 2S		1707 North Mosley, Wichita	17		12		Davis Environmental Drilling, LLC	1040395303
118345	Sedgwick	27	S	1	E	9	SE SE NE	-97.3181961	37.7162371	From PLSS	Security Oil	Monitoring well/observation/piezometer	14-Aug-97	PLUGGED	VOBW 3		2010 N Mosely, Wichita	10	999			GeoCore, Inc.	1044000032
118346	Sedgwick	27	S	1	E	9	SE SE NE	-97.3181961	37.7162371	From PLSS	Security Oil	Monitoring well/observation/piezometer	14-Aug-97	PLUGGED	VOBW 2		2010 N Mosely, Wichita	10	999			GeoCore, Inc.	1044000030
303332	Sedgwick	27	S	1	E	9	N2 SE SE	-97.3193442	37.7108235	From PLSS	Coastal Refinery	Recovery/Soil Vapor Extraction/Soil Vent	25-Mar-99	CONSTRUCTED	RW 39			33		10		Layne Western	1040397796
303361	Sedgwick	27	S	1	E	9	SE SW SE	-97.3227736	37.7090037	From PLSS	City of Wichita	Dewatering	2-Mar-99	CONSTRUCTED		990004	13th St and Ohio in Wichita, Kansas	40		13		Harp Well & Pump Service, Inc.	1040397842
303362	Sedgwick	27	S	1	E	9	SE SW SE	-97.3227736	37.7090037	From PLSS	City of Wichita	Dewatering	2-Mar-99	CONSTRUCTED		990004	13th St and Ohio in Wichita, Kansas	40		13		Harp Well & Pump Service, Inc.	1040397844
303322	Sedgwick	27	S	1	E	9	NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Industrial	2-Mar-99	PLUGGED			2050 N. Mosley, Wichita	38.6		16		GSI Engineering, LLC	1044000046
302454	Sedgwick	27	S	1	E	9	SW SW SE	-97.3250586	37.7089926	From PLSS	City of Wichita	Dewatering	17-Feb-99	CONSTRUCTED		990004	13th and Ohio in Wichita, Kansas	40		13		Harp Well & Pump Service, Inc.	1040398559
302455	Sedgwick	27	S	1	E	9	SW SW SE	-97.3250586	37.7089926	From PLSS	City of Wichita	Dewatering	17-Feb-99	CONSTRUCTED		990004	13th and Ohio in Wichita, Kansas	40		13		Harp Well & Pump Service, Inc.	1040398561
302456	Sedgwick	27	S	1	E	9	NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	17-Feb-99	CONSTRUCTED		990005	15th & I-35 in Wichita, Kansas	40		13		Harp Well & Pump Service, Inc.	1040398563
302911	Sedgwick	27	S	1	E	9	NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	9-Feb-99	CONSTRUCTED		990005	15th & I-35 in Wichita, Kansas	40		12		Harp Well & Pump Service, Inc.	1040401523
302912	Sedgwick	27	S	1	E	9	NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	9-Feb-99	CONSTRUCTED		990005	15th & I-35 in Wichita, Kansas	40		12		Harp Well & Pump Service, Inc.	1040401525
302826	Sedgwick	27	S	1	E	9	NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	29-Sep-98	CONSTRUCTED				20		10		Layne Western	1040401080
302827	Sedgwick	27	S	1	E	9	NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	1-Oct-98	CONSTRUCTED				39		10		Layne Western	1040401082
304188	Sedgwick	27	S	1	E	9	NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	11-Mar-99	PLUGGED		990005	15th & I-35 in Wichita, Kansas	40		12		Harp Well & Pump Service, Inc.	1040401523
304190	Sedgwick	27	S	1	E	9	NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	11-Mar-99	PLUGGED		990005	15th & I-35 in Wichita, Kansas	40		10		Harp Well & Pump Service, Inc.	1040398535
309000	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N & Topeka, NE Corner	22		14		Harp Well & Pump Service, Inc.	1044000070
309002	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N. & Topeka, NE Corner	15		15		Harp Well & Pump Service, Inc.	1044000063
309003	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N & Topeka, NE Corner	23		15		Harp Well & Pump Service, Inc.	1044000058
309005	Sedgwick	27	S	1	E	9	NW SW NW	-97.3341892	37.7179968	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N & Topeka, NE Corner	27		13.5		Harp Well & Pump Service, Inc.	1044000074
309006	Sedgwick	27	S	1	E	9	NW SW NW	-97.3341892	37.7179968	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N & Topeka, NE corner	46		12		Harp Well & Pump Service, Inc.	1044000073
310538	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	9-Feb-00	PLUGGED	MW 4		518 E 18th St, Wichita	27.5		14.78		GSI Engineering, LLC	1044000066
310539	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	9-Feb-00	PLUGGED	MW 3		518 E 18th St, Wichita	28		13.13		GSI Engineering, LLC	1044000067
310540	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	9-Feb-00	PLUGGED	MW 2		518 E 18th St, Wichita	27.5		14.48		GSI Engineering, LLC	1044000069
314821	Sedgwick	27	S	1	E	9	SE SW SE	-97.3227736	37.7090037	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990004	13th N & Ohio	40		12		Harp Well & Pump Service, Inc.	1040397844
314822	Sedgwick	27	S	1	E	9	SW SW SE	-97.3250586	37.7089926	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990004	13th N & Ohio	40		13		Harp Well & Pump Service, Inc.	1040398561
314727	Sedgwick	27	S	1	E	9	NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990005	15th St. & I-35	40		13		Harp Well & Pump Service, Inc.	1040401525
314729	Sedgwick	27	S	1	E	9	SE SW SE	-97.3227736	37.7090037	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990004	13th N & Ohio	40		13		Harp Well & Pump Service, Inc.	1040397842
318984	Sedgwick	27	S	1	E	9	NE NW NW	-97.3319004	37.7216203	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Feb-01	CONSTRUCTED	NWL 02D		270' S of 21 St N, 850' E of Topeka	39.6				Environmental Priority Service, Inc.	1040422977
318985	Sedgwick	27	S	1	E	9	NE NW NW	-97.3319004	37.7216203	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Feb-01	CONSTRUCTED	NWL 02S		270' S of 21 St N, 850' E of Topeka	20.3				Environmental Priority Service, Inc.	1040422979
318986	Sedgwick	27	S	1	E	9	NW NE NW	-97.3296154	37.7216245	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Feb-01	CONSTRUCTED	NML 03S		640' S of 21st St N, 830 W of Mosley	21.3				Environmental Priority Service, Inc.	1040422981
318988	Sedgwick	27	S	1	E	9	NE SW NW	-97.3319042	37.718003	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Jan-01	CONSTRUCTED	NWL 05S		410' E of Topeka, 6' N of 18th	23				Environmental Priority Service, Inc.	1040422985
318989	Sedgwick	27	0	1	E	9	NE NW SE	-97.3227679	37.714418	From PLSS	City of Wichita	Monitoring well/observation/piezometer	10-Jan-01	CONSTRUCTED	NWL 07S		6' S of 17th, 40' W of I-135	23.9				Environmental Priority Service, Inc.	1040422987
318081	Sedgwick	27	S	1	E	9	SE NW SE	-97.3227698	37.7126132	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NMW 12D		600' N of 15th and 20' W of I-135	26.9				Environmental Priority Service, Inc.	1040423742
318082	Sedgwick	27	S	1	E	9	SE NW SE	-97.3227698	37.7126132	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NMW 12S		600' N of 15th and 20' W of I-135	18				Environmental Priority Service, Inc.	1040423744
318990	Sedgwick	27	S	1	E	9	NE NW SE	-97.3227679	37.714418	From PLSS	City of Wichita	Monitoring well/observation/piezometer	10-Jan-01	CONSTRUCTED	NWL 08D		6' S of 17th, 40' W of I-135	33.4				Environmental Priority Service, Inc.	1040422989
318992	Sedgwick	27	S	1	E	9	NW NE SE	-97.3204829	37.7144262	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NWL 08S		8' S of 17th St, 40' E of I-135	22				Environmental Priority Service, Inc.	1040422993
318993	Sedgwick	27	S	1	E	9	SE NW NW	-97.3319023	37.7198116	From PLSS	City of Wichita	Monitoring well/observation/piezometer	23-Jan-01	CONSTRUCTED	NWL 09D		2' N of 20th St, 670' E of Topeka	42.9				Environmental Priority Service, Inc.	1040422995
318994	Sedgwick	27	S	1	E	9	SE NW NW	-97.3319023	37.7198116	From PLSS	City of Wichita	Monitoring well/observation/piezometer	23-Jan-01	CONSTRUCTED	NWL 09S		2' N of 20th St, 670' E of Topeka	21.2				Environmental Priority Service, Inc.	1040422997
318996	Sedgwick	27	S	1	E	9	NW NE NW	-97.3296154	37.7216245	From PLSS	City of Wichita	Monitoring well/observation/piezometer	13-Feb-01	CONSTRUCTED	NMW 06S		440' S of 21st ST N, 490' W of Mosley	20.7				Environmental Priority Service, Inc.	1040423001
318997	Sedgwick	27	S	1	E	9	SE NE NW	-97.3273323	37.719822	From PLSS	City of Wichita	Monitoring well/observation/piezometer	11-Jan-01	CONSTRUCTED	NMW 08D		60' W of Wabash 3' N of 19th	32.7				Environmental Priority Service, Inc.	1040423003
314642	Sedgwick	27	S	1	E	9	SE SW SW	-97.3319136	37.7089596	From PLSS	Babich, Helen A.	Lawn and Garden - domestic only	17-Aug-00	PLUGGED			1318 N Emporia	30		16		John David Babich	1043999983
318999	Sedgwick	27	S	1	E	9	NW SW NE	-97.3250492	37.7180215	From PLSS	City of Wichita	Monitoring well/observation/piezometer	11-Jan-01	CONSTRUCTED	NMW 09D		3' N of 19th St N, 115' E of Ohio	31.6				Environmental Priority Service, Inc.	1040423314
319000	Sedgwick	27	S	1	E	9	NW SW NE	-97.3250492	37.7180215	From PLSS	City of Wichita	Monitoring well/observation/piezometer	11-Jan-01	CONSTRUCTED	NMW 09S		3' N of 19th St N, 115' E of Ohio	20.8				Environmental Priority Service, Inc.	1040423316
319001	Sedgwick	27	S	1	E	9	NW NE NE	-97.3204754	37.7216415	From PLSS	City of Wichita	Monitoring well/observation/piezometer	23-Jan-01	CONSTRUCTED	NMW 39D		200' E of Washington, 600' N of 19th	36.5				Environmental Priority Service, Inc.	1040423318
319002	Sedgwick	27	S	1	E	9	NW NE NE	-97.3204754	37.7216415	From PLSS	City of Wichita	Monitoring well/observation/piezometer	23-Jan-01	CONSTRUCTED	NMW 39S		200' E of Washington, 600' N of 19th	20				Environmental Priority Service, Inc.	1040423320
319003	Sedgwick	27	S	1	E	9	NE SW NE	-97.3227642	37.7180276	From PLSS	City of Wichita	Monitoring well/observation/piezometer	7-Feb-01	CONSTRUCTED	NMW 10D		290' E of Ohio	33.8				Environmental Priority Service, Inc.	1040423322
319006	Sedgwick	27	S	1	E	9	NE SW NE	-97.3227642	37.7180276	From PLSS	City of Wichita	Monitoring well/observation/piezometer	7-Feb-01	CONSTRUCTED	NMW 10S		290' E of Ohio	22				Environmental Priority Service, Inc.	1040423328
319007	Sedgwick	27	S	1	E	9	SW NE NW	-97.3296173	37.7198168	From PLSS	City of Wichita	Monitoring well/observation/piezometer	5-Feb-01	CONSTRUCTED	NMW 40D		540' S of 21st St N, 136' W of Mosley	37.3				Environmental Priority Service, Inc.	1040423330
319009	Sedgwick	27	S	1	E	9	SW NE SE	-97.3204848	37.7126223	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Jan-01	CONSTRUCTED	NMW 11D		5' N of 15th N, 200' W of New York	31.7				Environmental Priority Service, Inc.	1040423334
319010	Sedgwick	27	S	1	E	9	SW NE SE	-97.3204848	37.7126223	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Jan-01	CONSTRUCTED	NMW 11S		5' N of 15th N, 200' W of New York	20.4				Environmental Priority Service, Inc.	1040423336
319011	Sedgwick	27	S	1	E	9	SW SE SE	-97.3204886	37.7090147	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Jan-01	CONSTRUCTED	NMW 14D		320' N of 13th St N, 30' W of I-135	23.4				Environmental Priority Service, Inc.	1040423338
319013	Sedgwick	27	S	1	E	9	NE SW SE	-97.3227717	37.7108085	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Jan-01	CONSTRUCTED	NMW 41D		16' S of 15th St N, 4' W of Ohio	33.4				Environmental Priority Service, Inc.	1040423342
319014	Sedgwick	27	S	1	E	9	NE SW SE	-97.3227717	37.7108085	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Jan-01	CONSTRUCTED	NMW 41S		16' S of 15th St N, 4' W of Ohio	22				Environmental Priority Service, Inc.	1040423344
319016	Sedgwick	27	S	1	E	9	SW NW SW	-97.3341948	37.7125679	From PLSS	City of Wichita	Monitoring well/observation/piezometer	11-Jan-01	CONSTRUCTED	NMW 19D		31' N of 15th St N, 7' W of Topeka	41.3				Environmental Priority Service, Inc.	1040423348
319017	Sedgwick	27	S	1	E	9	SW NW SW	-97.3341948	37.7125679	From PLSS	City of Wichita	Monitoring well/observation/piezometer	11-Jan-01	CONSTRUCTED	NMW 19S		31' N of 15th St N, 7' W of Topeka	20.9				Environmental Priority Service, Inc.	1040423350
320236	Sedgwick	27	S	1	E	9	SE SE SW	-97.3273436	37.7089816	From PLSS	Cargill Inc.	Lawn and Garden - domestic only	3-May-01	PLUGGED			715 E 13th St	60		20		Jerome Weninger Drilling, Inc.	1044000039
316801	Sedgwick	27	S	1	E	9	SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	10-Nov-00	PLUGGED	MW 5		1827 N Mosely, Wichita	20				Professional Engineering Consultants, PA	1043999988
322569	Sedgwick	27	S	1	E	9	NE NW NE	-97.3227604	37.7216372	From PLSS	City of Wichita	Monitoring well/observation/piezometer	6-Jul-01	CONSTRUCTED	NMW 46D		W of Cleveland, 10' S of E-bound 21st	34				Environmental Priority Service, Inc.	1040431793
320920	Sedgwick	27	S	1	E	9	NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 2D		582' FWL, 871' FSL of N/4	41	1312.74	10		Layne Western	1040435317
320921	Sedgwick	27	S	1	E	9	NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 4D		616.7' FWL, 949' FSL of N/4	36	1308.77	10		Layne Western	1040435319

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320922	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 5D		604' FWL, 1073' FSL of N/4	35.5	1308.09	10	Layne Western	1040435321
320923	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 7D		697' FWL, 1137' FSL of N/4	37	1308.93	10	Layne Western	1040435323
320924	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 8D		532' FWL, 1147' FSL of N/4	36.5	1308.5	10	Layne Western	1040435325
325015	Sedgwick	27 S	1 E	9 NW NW SE	-97.3250529	37.7144099	From PLSS	Weaver Manufacturing	Air Conditioning	13-Nov-01	PLUGGED			1759 N Wabash	37		13	Harp Well & Pump Service, Inc.	1044000034
324080	Sedgwick	27 S	1 E	9 SW NE SE	-97.3204848	37.7126223	From PLSS	Townsend, Helen	Lawn and Garden - domestic only	19-Sep-01	PLUGGED			1601 New York	18		16	Harp Well & Pump Service, Inc.	1044000041
320911	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 2S		586' FWL, 872' FSL of N/4	25		10	Layne Western	1040435019
320912	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 3S		701' FWL, 940' FSL of N/4	20	1308.73	10	Layne Western	1040435021
320917	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 8S		539' FWL, 1148' FSL of N/4	19	1308.21	10	Layne Western	1040435027
320918	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 9S		490' FWL, 1142' FSL of N/4	19	1308.64	10	Layne Western	1040435029
320919	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 1D		676' FWL, 865' FSL of N/4	38	1311.89	10	Layne Western	1040435031
330365	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Energy	Monitoring well/observation/piezometer	24-Jan-02	PLUGGED	MW 70		21st & I-35, Wichita	27		16.2	Funkee Drlg. Ser., Inc.	1044000017
330366	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Energy	Monitoring well/observation/piezometer	24-Jan-02	PLUGGED	MW 80		21st & I-35, Wichita	33		15.1	Funkee Drlg. Ser., Inc.	1044000022
338395	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	15-May-03	PLUGGED	MW 5			20			GeoCore, Inc.	1043999998
338396	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Recovery/Soil Vapor Extraction/Soil Vent	2-May-03	PLUGGED	RW 1		150' E, 30' N of centerline of Mosely & 19th St, Wichita	20			GeoCore, Inc.	1043999999
338397	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Recovery/Soil Vapor Extraction/Soil Vent	2-May-03	PLUGGED	RW 2		150' E, 30' N of centerline of Mosely & 19th St, Wichita	35			GeoCore, Inc.	1043999995
340901	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 8		2010 N Mosley, SE corner of property, Security Oil, Wichita	20			GeoCore, Inc.	1044000001
340903	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Recovery/Soil Vapor Extraction/Soil Vent	2-May-03	PLUGGED	RW 1		150' E and 30' N of centerline of Mosely and 19th Sts, Wichita	25			GeoCore, Inc.	1043999997
346974	Sedgwick	27 S	1 E	9 NE SE SW	-97.3273417	37.7107884	From PLSS	Lusco Brick and Stone	Lawn and Garden - domestic only	20-Apr-04	CONSTRUCTED			929 E 14th, Wichita	23		16	Harp Well & Pump Service, Inc.	1040468955
352579	Sedgwick	27 S	1 E	9 NW SW SW	-97.3341967	37.7107582	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 23S		E side of Mosley St, 250' S of 15th	21		13.8	Environmental Priority Service, Inc.	1040471857
353316	Sedgwick	27 S	1 E	9 NE NW SE	-97.3227679	37.714418	From PLSS	Brenntag Southwest, Inc	Monitoring well/observation/piezometer	10-Aug-04	CONSTRUCTED	MW 2		1520 N Barwise, Wichita	20			Douglas Roy	1040472794
349103	Sedgwick	27 S	1 E	9 SE SE SE	-97.3182036	37.7090257	From PLSS	TPI	Monitoring well/observation/piezometer	27-May-04	CONSTRUCTED	MW 8		1649 E 13th St, Wichita	20		13.85	AAA Drilling and Testing	1040471502
353298	Sedgwick	27 S	1 E	9 NE NW SE	-97.3227679	37.714418	From PLSS	Brenntag Southwest, Inc	Monitoring well/observation/piezometer	10-Aug-04	CONSTRUCTED	MW 3		1520 N Barwise, Wichita	20			Douglas Roy	1040479897
367964	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Corp	Monitoring well/observation/piezometer	22-Feb-05	PLUGGED	MW 011		1100 E 21st St N, Wichita	25			GSI Engineering, LLC	1044000025
364511	Sedgwick	27 S	1 E	9 NW SW SE	-97.3250567	37.7107984	From PLSS	McLean, Terri	Lawn and Garden - domestic only	18-May-05	PLUGGED			1513 Glen Hurst - backyard: NW corner of cement patio	80		21	JM Enterprises	1044000040
367961	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Corp	Monitoring well/observation/piezometer	20-May-05	PLUGGED	MW 007		1100 E 21st St N, Wichita	30			GSI Engineering, LLC	1044000021
367965	Sedgwick	27 S	1 E	9 NE SE NE	-97.3181942	37.71804	From PLSS	El Paso Corp	Monitoring well/observation/piezometer	16-Feb-05	PLUGGED	MW 004		1100 E 21st St N, Wichita	22			GSI Engineering, LLC	1044000029
379432	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Klepper Korner Store	Monitoring well/observation/piezometer	27-Dec-05	PLUGGED	MW 5	110020	from 13th and W Mosley St: 140' S, 120' W, Wichita	18			GeoCore, Inc.	1044000048
379435	Sedgwick	27 S	1 E	9 SE SE SW	-97.3273436	37.7089816	From PLSS	Klepper Korner Store	Monitoring well/observation/piezometer	27-Dec-05	CONSTRUCTED	MW 1R		1401 Mosley, Wichita	18			GeoCore, Inc.	1040495130
380758	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 7		703 E 21st, Wichita	19		12.65	Associated Environmental, Inc.	1040498518
380762	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 3		703 E 21st, Wichita	19		12.43	Associated Environmental, Inc.	1040498520
380750	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	VOLPACK	Monitoring well/observation/piezometer	13-Sep-05	CONSTRUCTED	MW 6D			36.5		11.5	Audie Thornburg	1040497186
380755	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 1		703 E 21st, Wichita	19		12.45	Associated Environmental, Inc.	1040497188
380756	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 2		703 E 21st, Wichita	19		12.85	Associated Environmental, Inc.	1040498318
380761	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 4		703 E 21st, Wichita	19		12.92	Associated Environmental, Inc.	1040500627
380749	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	VOLPACK	Monitoring well/observation/piezometer	13-Sep-05	CONSTRUCTED	MW 3D			37		11.5	Audie Thornburg	1040498959
380757	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 8		703 E 21st, Wichita	19		13	Associated Environmental, Inc.	1040500024
380760	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 5		703 E 21st, Wichita	19		12.2	Associated Environmental, Inc.	1040502569
397936	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 2		1820 N Mosely, Wichita	17.74		13.05	Associated Environmental, Inc.	1043999989
397937	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 3		1820 N Mosely, Wichita	20.3		13.46	Associated Environmental, Inc.	1043999987
397942	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 8		1820 N Mosely, Wichita	17.74		12.7	Associated Environmental, Inc.	1043999992
397943	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 9		1820 N Mosely, Wichita	18.05		13.3	Associated Environmental, Inc.	1043999984
397940	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 6		1820 N Mosely, Wichita	20.5		14.45	Associated Environmental, Inc.	1043999985
397934	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 1		1820 N Mosely, Wichita	20		12	Associated Environmental, Inc.	1043999986
403343	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Merchant Energy-Petroleum Co	Monitoring well/observation/piezometer	12-Jan-07	PLUGGED	MW 390		from New York Ave and 21st St: 270' S	28		17	MWH Americas Inc.	1044000018
408296	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 8		703 E 21st, Wichita	17.65		12.45	Associated Environmental, Inc.	1040500024
408289	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 1		703 E 21st, Wichita	17.36		11.82	Associated Environmental, Inc.	1040497188
408293	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 5		703 E 21st, Wichita	17.37		11.62	Associated Environmental, Inc.	1040502569
408291	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 3		703 E 21st, Wichita	17.48		11.81	Associated Environmental, Inc.	1040498520
411462	Sedgwick	27 S	1 E	9 SW SE SW	-97.3296286	37.7089706	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	CONSTRUCTED	MW 1 d		1520 Barwise, Wichita	37	1305.17	11.9	GSI Engineering, LLC	1040530445
411793	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	El Paso Merchant Energy	Monitoring well/observation/piezometer	25-Oct-07	CONSTRUCTED	PZ 33		NW of E 20th and Cleveland, Wichita	23		11.33	GeoCore, Inc.	1040530454
411466	Sedgwick	27 S	1 E	9 SW SE SW	-97.3296286	37.7089706	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	CONSTRUCTED	MW 3 d		1520 N Barwise, Wichita	38	1506.54	13.53	GSI Engineering, LLC	1040529176
411794	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	El Paso Merchant Energy	Monitoring well/observation/piezometer	24-Oct-07	CONSTRUCTED	PZ 34		NW of E 20th and Cleveland, Wichita	23		11.16	GeoCore, Inc.	1040531817
413890	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Merchant Energy-Petroleum Co	Monitoring well/observation/piezometer	24-Apr-08	CONSTRUCTED	PZ 54		1410 E 21st St N, Wichita - S end of city parking lot S of American Can	24			GSI Engineering, LLC	1040530525
411792	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	El Paso Merchant Energy	Monitoring well/observation/piezometer	31-Jul-07	CONSTRUCTED	PZ 36		NW from E 20th and Cleveland, Wichita	23		13.8	GeoCore, Inc.	1040529930
413889	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Merchant Energy-Petroleum Co	Monitoring well/observation/piezometer	24-Apr-08	CONSTRUCTED	PZ 53		from intersection of 21st St N and New York St, Wichita: S of Car Smart Auto Dealership	25			GSI Engineering, LLC	1040530600
411467	Sedgwick	27 S	1 E	9 SW SE SW	-97.3296286	37.7089706	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	CONSTRUCTED	MW 3 s		1520 N Barwise, Wichita	25	1306.54	13.53	GSI Engineering, LLC	1040530724
408290	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 2		703 E 21st, Wichita	17.54		12.26	Associated Environmental, Inc.	1040498318
408292	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 4		703 E 21st, Wichita	17.81		12.3	Associated Environmental, Inc.	1040500627
411795	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	El Paso Merchant Energy	Monitoring well/observation/piezometer	24-Oct-07	CONSTRUCTED	PZ 35		NW of E 20th and Cleveland, Wichita	23		13.71	GeoCore, Inc.	1040532093
411464	Sedgwick	27 S	1 E	9 SW SE SW	-97.3296286	37.7089706	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	CONSTRUCTED	MW 2 d		1520 N Barwise, Wichita	36	1306.44	13.47	GSI Engineering, LLC	1040529544
411465	Sedgwick	27 S	1 E	9 SW SE SW	-97.3296286	37.7089706	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	CONSTRUCTED	MW 2 s		1520 Barwise, Wichita	25	1306.54	13.57	GSI Engineering, LLC	1040530929
413891	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Merchant Energy-Petroleum Co	Monitoring well/observation/piezometer	24-Apr-08	CONSTRUCTED	PZ 55		1410 E 21st St N, Wichita - S end of city parking lot S of American Can	23			GSI Engineering, LLC	1040532247
411463	Sedgwick	27 S	1 E	9 SW SE SW	-97.3296286	37.7089706	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	CONSTRUCTED	MW 1 s		1520 N Barwise, Wichita	25		11.97	GSI Engineering, LLC	1040528981
413892	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	2-Apr-08	CONSTRUCTED	MW 7 R		2050 N Mosley, Wichita - 4' S, 10' E of NE corner of Shed Building	20	1308.41	11.25	GSI Engineering, LLC	1040529042
413896	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	2-Apr-08	CONSTRUCTED	MW 10		2050 N Mosley, Wichita - 2' S, 7' W of SE corner of NBP Building	20	1310.01	12.84	GSI Engineering, LLC	1040529044
320915	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 6S		515' FWL, 1079' FSL of N/4	19	1308.61	10	Layne Western	1040538445
320916	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 7S		703' FWL, 1309' FWL of N/4	20	1308.99	10	Layne Western	1040538447
411461	Sedgwick	27 S	1 E	9 NE SE SW	-97.3273417	37.7107884	From PLSS	Ramaley, Peter	Monitoring well/observation/piezometer	14-Jan-08	PLUGGED	PZ 1		1520 N Barwise, Wichita	19.8		12.15	GSI Engineering, LLC	1044000036
322568	Sedgwick	27 S	1 E	9 NE SW NW	-97.3319042	37.718003	From PLSS	City of Wichita	Monitoring well/observation/piezometer	5-Jul-01	CONSTRUCTED	NMW 06S		from Topeka: 500' N of 18th, 370' E	21			Environmental Priority Service, Inc.	1040538095
413893	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	2-Apr-08	CONSTRUCTED	MW 8		2050 N Mosley, Wichita - 4' N, 15' W of NE corner of Mitchells Building	20	1309.68	12.42	GSI Engineering, LLC	1040533443
66444	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	RALSTON PURINA	Monitoring well/observation/piezometer	30-Jun-88	CONSTRUCTED			18TH & TOPEKA WICHITA KS	21		18	Layne Christensen Co.	1040306621
66505	Sedgwick	27 S	1 E	9 SWSWNE	-97.3250511	37.7162157	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			1705 N WABASH WICHITA, KS	33		13	Groundwater Technology	1040307018
428886	Sedgwick	27 S	1 E	9 NE NE NE	-97.3181904	37.7216457	From PLSS	El Paso Merchant Energy - Petroleum Co	Monitoring well/observation/piezometer	16-Oct-09	PLUGGED	PZ 26		1100 E 21st St, Wichita - from 21st and on ramp to I-135 S: 200' S, 200' W (Well was destroyed)	25			GSI Engineering, LLC	1044000027
434459	Sedgwick	27 S	1 E	9 SE NW NW NE	-97.3249234	37.7211449	GPS	NIM Inc	Monitoring well/observation/piezometer	10-Apr-10	CONSTRUCTED	MW 7 A		1007 E 21st St N, Wichita	22.4		15.9	Terracon Consultants, Inc.	1042542390
434461	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3256172	37.7211804	From PLSS	NIM Inc	Monitoring well/observation/piezometer	7-Apr-10	CONSTRUCTED	MW 3 A		1007 E 21st St N, Wichita	20.1		12.4	Terracon Consultants, Inc.	1042542392
434709	Sedgwick	27 S	1 E	9 NE SW NW NE	-97.3244756	37.7202799	GPS	NIM Inc	Monitoring well/observation/piezometer	12-Apr-10	CONSTRUCTED	MW 4 B		1007 E 21st St N, Wichita	33			Terracon Consultants, Inc.	1042548057
434457	Sedgwick	27 S	1 E	9 NW NW NW NE	-97.3260326	37.7216365	GPS	NIM Inc	Monitoring well/observation/piezometer	7-Apr-10	CONSTRUCTED	MW 2 A		1007 E 21st St N, Wichita	18.7		13.3	Terracon Consultants, Inc.	1042542388
434467	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3259846	37.7212659	GPS	NIM Inc	Monitoring well/observation/piezometer	8-Apr-10	CONSTRUCTED	MW 6 B		1007 E 21st St N, Wichita	39.2		12.9	Terracon Consultants, Inc.	1042542373
428887	Sedgwick	27 S	1 E	9 NE NE NE	-97.3181904	37.7216457	From PLSS	El Paso Merchant Energy - Petroleum Co	Monitoring well/observation/piezometer	27-Aug-09	CONSTRUCTED	PZ 26 R		1100 E 21st St, Wichita - from 21st and on ramp to I-135 S: 200' S, 200' W	25		14	GSI Engineering, LLC	1041231160
434455	Sedgwick	27 S	1 E	9 NW NW NW NE	-97.3256162	37.7220834	From PLSS	NIM Inc	Monitoring well/observation/piezometer	6-Apr-10	CONSTRUCTED	MW 1 A		1007 E 21st St N, Wichita	20.2		12.8	Terracon Consultants, Inc.	1042542456
434464	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3253934	37.7213046	GPS	NIM Inc	Monitoring well/observation/piezometer	12-Apr-10	CONSTRUCTED	MW 5 B		1007 E 21st St N, Wichita	38.5		15.3	Terracon Consultants, Inc.	1042542490
434694	Sedgwick	27 S	1 E	9 NE SW NW NE	-97.324136	37.7203963	GPS	NIM Inc	Monitoring well/observation/piezometer	10-Apr-10	CONSTRUCTED	MW 4 A		1007 E 21st St N, Wichita	20.8		12.1	Terracon Consultants, Inc.	1042548087
434458	Sedgwick	27 S	1 E	9 NW NW NW NE	-97.3260326	37.7216365	GPS	NIM Inc	Monitoring well/observation/piezometer	7-Apr-10	CONSTRUCTED	MW 2 B		1007 E 21st St N, Wichita	35.9		13.4	Terracon Consultants, Inc.	1042542426
434460	Sedgwick	27 S	1 E	9 SE NW NW NE	-97.3249234	37.7211449	GPS	NIM Inc	Monitoring well/observation/piezometer	10-Apr-10	CONSTRUCTED	MW 7 B		1007 E 21st St N, Wichita	37		15.6	Terracon Consultants, Inc.	1042542428
434466	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3259846	37.7212659	GPS	NIM Inc	Monitoring well/observation/piezometer	8-Apr-10	CONSTRUCTED	MW 6 A		1007 E 21st St N, Wichita	18.4		12.9	Terracon Consultants, Inc.	1042542510
434462	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3256172	37.7211804	From PLSS	NIM Inc	Monitoring well/observation/piezometer	7-Apr-10	CONSTRUCTED	MW 3 B		1007 E 21st St N, Wichita	34.5		12.7	Terracon Consultants, Inc.	1042542464
66493	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	20		15	Layne Christensen Co.	1040306994
66501	Sedgwick	27 S	1 E	9 SWSENW	-97.3296211	37.7162014	From PLSS	City of Wichita	Monitoring well/observation/piezometer	24-Mar-93	CONSTRUCTED			708 E 18TH WICHITA KANSAS	40		13	Groundwater Technology	1040307010
66397	Sedgwick	27 S	1 E	9 SWSWNW	-97.3341911	37.7161871	From PLSS	PURINA MILLS	Monitoring well/observation/piezometer	1-Apr-91	CONSTRUCTED			NE CORNER OF 17TH AND TOPEKA WICHITA, KANSAS	45		18	Groundwater Technology	1040306261
66401	Sedgwick	27 S	1 E	9 NESENW	-97.3273342	37.7180153	From PLSS	CHIPPEAUX	Monitoring well/observation/piezometer	29-Sep-89	CONSTRUCTED			1927 N MOSLEY WICHITA KS	35		16	HWS Consulting Group Inc.	1040306269
66405	Sedgwick	27 S	1 E	9 SESENE	-97.3181961	37.7162371	From PLSS	WNID MCADAMS PK	Monitoring well/observation/piezometer	29-Mar-91	CONSTRUCTED			1520 E 17TH WICHITA	31		14	Groundwater Technology	1040306277
66409	Sedgwick	27 S	1 E	9 SWNWNW	-97.3341873	37.7198064	From PLSS	MICHAELIS JR	Monitoring well/observation/piezometer	6-Nov-89	CONSTRUCTED			19TH & BROADWAY	25		17	Groundwater Technology	1040306285
66423	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	KREHBIEL PROPER	Monitoring well/observation/piezometer	6-Jun-89	CONSTRUCTED			400 E 18TH WICHITA KS	27		18	David Daniels Drilling	1040306313
66465	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		13	David W. Daniels Drilling Company	1040306663
66511	Sedgwick	27 S	1 E	9 SWSENW	-97.3296211	37.7162014	From PLSS	City of Wichita	Monitoring well/observation/piezometer	24-Mar-93	CONSTRUCTED			708 E 18TH WICHITA KANSAS	18		13	Groundwater Technology	1040307030
66373	Sedgwick	27 S	1 E	9 SW SW SW	-97.3341986	37.7089486	From PLSS	Bell Estate	Domestic	30-Jul-93	PLUGGED				25		6	Layne Christensen Co.	1044000078
66381	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N Mosley, Wichita	20		11	GSI Engineering, LLC	1040305959
66443	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	RALSTON PURINA	Monitoring well/observation/piezometer	30-Jun-88	CONSTRUCTED			18TH & TOPEKA WICHITA KS	24		18	Layne Christensen Co.	1040306619
66452	Sedgwick	27 S	1 E	9 NWNENE	-97.3204754	37.7216415	From PLSS		Monitoring well/observation/piezometer	25-Sep-81	CONSTRUCTED				39		11	David W. Daniels Drilling Company	1040306637
103952	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	13-Oct-95	CONSTRUCTED			10 Yards N of S Entrance off 17th St	17	1308.36	12	Professional Engineering Consultants, PA	1040375160
304189	Sedgwick	27 S	1 E	9 NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	11-Mar-99	PLUGGED		990005	15th and I-35 in Wichita	40		12	Harp Well & Pump Service, Inc.	1040398563
118344	Sedgwick	27 S	1 E	9 SE SE NE	-97.3181961	37.7162371	From PLSS	Security Oil	Monitoring well/observation/piezometer	14-Aug-97	PLUGGED	VOBW 1		2010 N Mosely, Wichita	10	999		GeoCore, Inc.	1044000031
302828	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	29-Sep-98	CONSTRUCTED				35.5		10	Layne Western	1040401084
118892	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	9-Sep-97	CONSTRUCTED	MW 3S		1707 North Mosley, Wichita	17		12	Davis Environmental Drilling, LLC	1040395301
303331	Sedgwick	27 S	1 E	9 N2 SE SE	-97.3193442	37.7108235	From PLSS	Coastal Refinery	Recovery/Soil Vapor Extraction/Soil Vent	23-Mar-99	CONSTRUCTED	RW 40			27		10	Layne Western	1040397794
310541	Sedgwick	27 S	1 E	9 NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	9-Feb-00	PLUGGED	MW 1		518 E 18th St	28		14.35	GSI Engineering, LLC	1044000068
302442	Sedgwick	27 S	1 E	9 NW SE SE	-97.3204867	37.7108185	From PLSS	City of Wichita	Dewatering	11-Feb-99	CONSTRUCTED		990005	15th St. & I-35 in Wichita, Kansas	40		10	Harp Well & Pump Service, Inc.	1040398535
314414	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	St. Patrick Church	Air Conditioning	27-Jul-00	PLUGGED			2007 N Arkansas	21		11	Harp Well & Pump Service, Inc.	1044000000
309001	Sedgwick	27 S	1 E	9 NE SW NW	-97.3319042	37.718003	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N & Topeka, NE Corner	20		15	Harp Well & Pump Service, Inc.	1044000071
309004	Sedgwick	27 S	1 E	9 NW SW NW	-97.3341892	37.7179968	From PLSS	Terry Koehler, et. al.	Monitoring well/observation/piezometer	27-Oct-99	PLUGGED			18th N. & Topeka, NE Corner	27		15	Harp Well & Pump Service, Inc.	1044000072
316802	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	10-Nov-00	PLUGGED	MW 7		1820 N Mosely, Wichita	17			Professional Engineering Consultants, PA	1043999990
318987	Sedgwick	27 S	1 E	9 NW SE NW	-97.3296192	37.7180091	From PLSS	City of Wichita	Monitoring well/observation/piezometer	12-Jan-01	CONSTRUCTED	NWL 04S		55' E of Santa Fe, 5' N of 19th	21			Environmental Priority Service, Inc.	1040422983
318991	Sedgwick	27 S	1 E	9 NW NE SE	-97.3204829	37.7144262	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NWL 08D		8' S of 17th St, 40' E of I-135	33.3			Environmental Priority Service, Inc.	1040422991
318995	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	City of Wichita	Monitoring well/observation/piezometer	13-Feb-01	CONSTRUCTED	NMW 06D		440' S of 21st ST N, 490' W of Mosley	38.1			Environmental Priority Service, Inc.	1040422999
318998	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	City of Wichita	Monitoring well/observation/piezometer	11-Jan-01	CONSTRUCTED	NMW 08S		60' W of Wabash 3' N of 19th	18.9			Environmental Priority Service, Inc.	1040423005
329119	Sedgwick	27 S	1 E	9 SW NE SE	-97.3204848	37.7126223	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Apr-02	CONSTRUCTED	NMW 110R		5' N of 15th, 175' W of New York	35.6			Environmental Priority Service, Inc.	1040436152
319008	Sedgwick	27 S	1 E	9 SW NE NW	-97.3296173	37.7198168	From PLSS	City of Wichita	Monitoring well/observation/piezometer	5-Feb-01	CONSTRUCTED	NMW 40S		540' S of 21st St N, 136' W of Mosley	20			Environmental Priority Service, Inc.	1040423332
319012	Sedgwick	27 S	1 E	9 SW SE SE	-97.3204886	37.7090147	From PLSS	City of Wichita	Monitoring well/observation/piezometer	10-Jan-01	CONSTRUCTED	NMW 14S		320' N of 13th St N, 30' W of I-135	17			Environmental Priority Service, Inc.	1040423340

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319015	Sedgwick	27 S	1 E	9 SW NE SW	-97.3296248	37.712586	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Mar-01	CONSTRUCTED	WNC 495A		490' N of 15th St N, 630' W of Mosley	20				Environmental Priority Service, Inc.	1040423346
320910	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 1S		682' FWL, 865' FSL of N/4	25	1311.9	10		Layne Western	1040435017
320913	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	12-Jun-98	CONSTRUCTED	MW 4S		662' FWL, 949' FSL of N/4	20	1308.8	10		Layne Western	1040435023
320914	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Waters, Van	Monitoring well/observation/piezometer	27-Jun-98	CONSTRUCTED	MW 5S		610' FWL, 1072' FSL of N/4	20	1308.26	10		Layne Western	1040435025
338398	Sedgwick	27 S	1 E	9 NE SE NW	-97.3273342	37.7180153	From PLSS	Security Oil	Recovery/Soil Vapor Extraction/Soil Vent	2-May-03	PLUGGED	RW 3		270' E, 30' S of centerline of Mosely & 19th St, Wichita	35				GeoCore, Inc.	1043999993
330367	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Energy	Monitoring well/observation/piezometer	24-Jan-02	PLUGGED	MW 400		21st & I-35, Wichita	27				Funkee Drlg. Ser., Inc.	1044000023
326769	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	Johns Super Refined Oil	(unstated)/abandoned	18-Apr-02	PLUGGED			2136 N Mosley, Wichita	35		24		GSI Engineering, LLC	1044000047
314728	Sedgwick	27 S	1 E	9 SE SW SE	-97.3227736	37.7090037	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990004	13th N & Ohio	40		12		Harp Well & Pump Service, Inc.	1040398559
340902	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 11		240' S of centerline of Mosely and 19th Sts, E easement, Wichita	20				GeoCore, Inc.	1043999996
353317	Sedgwick	27 S	1 E	9 NE NW SE	-97.3227679	37.714418	From PLSS	Brenntag Southwest, Inc	Monitoring well/observation/piezometer	10-Aug-04	CONSTRUCTED	MW 1		1520 N Barwise, Wichita	20				Douglas Roy	1040470112
352429	Sedgwick	27 S	1 E	9 NW SW SW	-97.3341967	37.7107582	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 22 S		250' S of 15th St on Santa Fe	21		13.9		Environmental Priority Service, Inc.	1040474768
379437	Sedgwick	27 S	1 E	9 SE SE SW	-97.3273436	37.7089816	From PLSS	Klepper Korner Store	Monitoring well/observation/piezometer	27-Dec-05	PLUGGED	MW 1	109983	from N 13th St and W Mosley St: 150' N, 80' W, Wichita	20				GeoCore, Inc.	1044000038
367962	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Corp	Monitoring well/observation/piezometer	22-Feb-05	PLUGGED	MW 010		1100 E 21st St N, Wichita	29		13.92		GSI Engineering, LLC	1044000024
66480	Sedgwick	27 S	1 E	9 NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Jun-91	CONSTRUCTED			518 E 18th St, Wichita	284		18		GSI Engineering, LLC	1040306693
367963	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	El Paso Corp	Monitoring well/observation/piezometer	22-Feb-05	PLUGGED	K		1100 E 21st St N, Wichita	25		13.6		GSI Engineering, LLC	1044000020
380759	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center c/o KDHE Time and Materials	Monitoring well/observation/piezometer	13-Dec-05	CONSTRUCTED	MW 6		703 E 21st, Wichita	19		13.44		Associated Environmental, Inc.	1040498428
397939	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	6-Nov-06	PLUGGED	MW 4		1820 N Mosely, Wichita	19.8		13.59		Associated Environmental, Inc.	1043999991
413895	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	2-Apr-08	CONSTRUCTED	MW 9		2050 N Mosley, Wichita - 25' S, 28' W of SE corner of Mitchells Building	20	1310.07	13.1		GSI Engineering, LLC	1040530527
408295	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 7		703 E 21st, Wichita	17.29		12.05		Associated Environmental, Inc.	1040498518
408294	Sedgwick	27 S	1 E	9 NW NE NW	-97.3296154	37.7216245	From PLSS	Day Reporting Center/KDHE Time and Materials	Monitoring well/observation/piezometer	29-Oct-07	PLUGGED	MW 6		703 E 21st, Wichita	17.37		12.86		Associated Environmental, Inc.	1040498428
443194	Sedgwick	27 S	1 E	9 NE NE NE NW	-97.3268936	37.7213767	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 2		2050 N Mosley, Wichita	20	1310.08	13.16		SCS Aquaterra	1044000045
443195	Sedgwick	27 S	1 E	9 NE NE NE NW	-97.3268928	37.7222062	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 4		2050 N Mosley, Wichita	20	1310.41	13.09		SCS Aquaterra	1044000051
442987	Sedgwick	27 S	1 E	9 SE SE SW	-97.3273761	37.7094843	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	23-Mar-11	CONSTRUCTED	MW 6S		1520 N Barwise St, Wichita	26				Below Ground Surface, Inc.	1043690388
443212	Sedgwick	27 S	1 E	9 SE NE NE NW	-97.3271223	37.7209251	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 9		2050 N Mosley, Wichita	20	1310.36	12.73		SCS Aquaterra	1044000055
442982	Sedgwick	27 S	1 E	9 NW SE SW	-97.3286752	37.7101864	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	22-Mar-11	CONSTRUCTED	MW 4D		1520 N Barwise St, Wichita	38		13.66		Below Ground Surface, Inc.	1043690396
443210	Sedgwick	27 S	1 E	9 NW NE NE NW	-97.3280031	37.7215661	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 7 R		2050 N Mosley, Wichita	20	1308.85	11.6		SCS Aquaterra	1044000054
443207	Sedgwick	27 S	1 E	9 NE NE NE NW	-97.3270134	37.7225159	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 8		2050 N Mosley, Wichita	20	1310.13	12.86		SCS Aquaterra	1044000052
442988	Sedgwick	27 S	1 E	9 NW SE SW	-97.3286752	37.7101864	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	22-Mar-11	PLUGGED			1520 N Barwise St, Wichita	19		13.6		Below Ground Surface, Inc.	1044012782
443193	Sedgwick	27 S	1 E	9 NE NE NE NW	-97.3268931	37.721926	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 1		2050 N Mosley, Wichita	20	1309.19	11.89		SCS Aquaterra	1044000049
442986	Sedgwick	27 S	1 E	9 SE SE SW	-97.3273761	37.7094843	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	23-Mar-11	CONSTRUCTED	MW 6D		1520 N Barwise St, Wichita	33.6				Below Ground Surface, Inc.	1043690421
443208	Sedgwick	27 S	1 E	9 NE NE NE NW	-97.326765	37.722064	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 10		2050 N Mosley, Wichita	20	1310.24	13.23		SCS Aquaterra	1044000050
442984	Sedgwick	27 S	1 E	9 SE SE SW	-97.329074	37.7089842	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	23-Mar-11	CONSTRUCTED	MW 5D		1520 N Barwise St, Wichita	34				Below Ground Surface, Inc.	1043690423
443211	Sedgwick	27 S	1 E	9 SE NE NE NW	-97.3263443	37.7210966	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 3		2050 N Mosley, Wichita	20	1311.84	14.91		SCS Aquaterra	1044000044
103044	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Other	1-Oct-95	CONSTRUCTED			270' EAST & 30' S of Centerline of Mosley and 19	35		35		GeoCore, Inc.	1040368982
103415	Sedgwick	27 S	1 E	9 SESESW	-97.3273436	37.7089816	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	8-Nov-95	CONSTRUCTED			10' N 13TH ST & 120' W MOSLEY ST WICHITA KS	18	1304	11		GeoCore, Inc.	1040366491
103409	Sedgwick	27 S	1 E	9 SESESW	-97.3273436	37.7089816	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	8-Nov-95	CONSTRUCTED			150' N 13TH ST & 80' W MOSLEY ST WICHITA KS	20	1305.5	12.6		GeoCore, Inc.	1040366244
103421	Sedgwick	27 S	1 E	9 NENENW	-97.3273304	37.7216288	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	9-Nov-95	CONSTRUCTED			140' S 13TH ST & 120' W MOSLEY ST WICHITA KS	18	1305.2	12.6		GeoCore, Inc.	1040366503
103429	Sedgwick	27 S	1 E	9 SESESW	-97.3273436	37.7089816	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	10-Nov-95	CONSTRUCTED			10' N 13TH ST & 190' W MOSLEY ST WICHITA KS	18	1304.4	11.5		GeoCore, Inc.	1040366519
99019	Sedgwick	27 S	1 E	9 SE NW NE	-97.3227623	37.7198324	From PLSS	Coastal Refinery	Other	17-Apr-95	CONSTRUCTED			1100 E 21st St, Wichita	33		14.68		Harp Well & Pump Service, Inc.	1040362217
99021	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	Coastal Refinery	Other	17-Apr-95	CONSTRUCTED			1100 E 21st St, Wichita	30		13.72		Harp Well & Pump Service, Inc.	1040362221
66393	Sedgwick	27 S	1 E	9 SESWNE	-97.3227661	37.7162228	From PLSS	THUNDERBIRD EXP	Monitoring well/observation/piezometer	5-Apr-91	CONSTRUCTED			NE CORNER OF 17TH AND OHIO WICHITA	22		14		Groundwater Technology	1040306255
66394	Sedgwick	27 S	1 E	9 SESWNE	-97.3227661	37.7162228	From PLSS	THUNDERBIRD EXP	Monitoring well/observation/piezometer	4-Apr-91	CONSTRUCTED			NE CORNER OF 17TH AND OHIO WICHITA	32		14		Groundwater Technology	1040306257
66399	Sedgwick	27 S	1 E	9 SW SE NW	-97.3296211	37.7162014	From PLSS	Bartels Shores	Monitoring well/observation/piezometer	2-Apr-91	CONSTRUCTED			700 E 17th, Wichita	26		18		Groundwater Technology	1040306265
66400	Sedgwick	27 S	1 E	9 SESENW	-97.3273361	37.7162086	From PLSS	RITCHIE	Monitoring well/observation/piezometer	2-Apr-91	CONSTRUCTED			NW CORNER OF 17TH AND MOSLEY	22		14		Groundwater Technology	1040306267
66406	Sedgwick	27 S	1 E	9 SWSWNW	-97.3341911	37.7161871	From PLSS	PURINA MILLS	Monitoring well/observation/piezometer	1-Apr-91	CONSTRUCTED			NE CORNER OF 17TH AND TOPEKA WICHITA, KANSAS	25		18		Groundwater Technology	1040306279
66407	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	MICHAELIS JR	Monitoring well/observation/piezometer	7-Nov-89	CONSTRUCTED			19TH & BROADWAY WICHITA KS	24		18		Groundwater Technology	1040306281
66410	Sedgwick	27 S	1 E	9 SWNWNW	-97.3341873	37.7198064	From PLSS	MICHAELIS JR	Monitoring well/observation/piezometer	6-Nov-89	CONSTRUCTED			19TH & BROADWAY WICHITA KS	24		18		Groundwater Technology	1040306287
66412	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	4-Dec-89	CONSTRUCTED			E of Mosely St, Wichita	20	1308	13		HWS Consulting Group Inc.	1040306291
66384	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	17-Aug-93	CONSTRUCTED			1820 N Mosely, Wichita	21	1307	11		Professional Engineering Consultants, PA	1040306237
66385	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	17-Aug-93	CONSTRUCTED			1820 N Mosely, Wichita	21	1307	11		Professional Engineering Consultants, PA	1040306239
66416	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	30-Sep-88	CONSTRUCTED			Cleveland and 20th St, Wichita	30		17		Hydro Resources Mid Continent, Inc.	1040306299
66417	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	30-Sep-88	CONSTRUCTED			Cleveland and 21st St, Wichita	27		12		Hydro Resources Mid Continent, Inc.	1040306301
66418	Sedgwick	27 S	1 E	9 SW NE NE	-97.3204773	37.7198376	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	16-Sep-88	CONSTRUCTED			Cleveland and 19th St, Wichita	30		16		Hydro Resources Mid Continent, Inc.	1040306303
66421	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	KREHBIEL PROPER	Monitoring well/observation/piezometer	7-Jun-89	CONSTRUCTED			400 E 18TH WICHITA KS	28		18		David Daniels Drilling	1040306309
66422	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	KREHBIEL PROPER	Monitoring well/observation/piezometer	6-Jun-89	CONSTRUCTED			400 E 18TH WICHITA KS	46		18		David Daniels Drilling	1040306311
66425	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	RALSTON PURINA	Monitoring well/observation/piezometer	30-Jun-88	CONSTRUCTED			18TH & TOPEKA WICHITA KS	20		18		Layne Christensen Co.	1040306317
66429	Sedgwick	27 S	1 E	9 SE NW NE	-97.3227623	37.7198324	From PLSS	Derby Refining Co	Other	3-Oct-88	CONSTRUCTED			W 2044 N Cleveland, Wichita	25		14		Hydro Resources Mid Continent, Inc.	1040306325
66387	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	17-Aug-93	CONSTRUCTED			1827 N. Mosely, Wichita	21	1306	10		Professional Engineering Consultants, PA	1040306243
66388	Sedgwick	27 S	1 E	9 SE SE NW	-97.3273361	37.7162086	From PLSS	Allen's Concrete	Monitoring well/observation/piezometer	17-Aug-93	CONSTRUCTED			1820 N Mosely, Wichita	21	1305	10		Professional Engineering Consultants, PA	1040306245
66390	Sedgwick	27 S	1 E	9 C NE NE	-97.3193339	37.7207419	From PLSS	Coastal Refinery	Monitoring well/observation/piezometer	17-Mar-94	CONSTRUCTED				30		15		Layne Christensen Co.	1040306249
66482	Sedgwick	27 S	1 E	9 NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	26-Jun-91	CONSTRUCTED				28		18		GSI Engineering, LLC	1040306975
66486	Sedgwick	27 S	1 E	9 NE SW NW	-97.3319042	37.718003	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Jun-91	CONSTRUCTED			518 E. 18th St, Wichita	28		16		GSI Engineering, LLC	1040306980
66488	Sedgwick	27 S	1 E	9 NENWNW	-97.3319004	37.7216203	From PLSS	STEVENS	Monitoring well/observation/piezometer	7-Aug-92	CONSTRUCTED			515 E 21ST STREET WICHITA KANSAS	25				GSI Engineering, LLC	1040306984
66491	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	21		15		Layne Christensen Co.	1040306990
66492	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	20		15		Layne Christensen Co.	1040306992
66494	Sedgwick	27 S	1 E	9 SE NE NW	-97.3273323	37.719822	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	20		15		Layne Christensen Co.	1040306996
66495	Sedgwick	27 S	1 E	9 NE SE NW	-97.3273342	37.7180153	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	20		20		Layne Christensen Co.	1040306998
66496	Sedgwick	27 S	1 E	9 NE SE NW	-97.3273342	37.7180153	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	19		15		Layne Christensen Co.	1040307000
66498	Sedgwick	27 S	1 E	9 NE SE NW	-97.3273342	37.7180153	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	20		15		Layne Christensen Co.	1040307004
66499	Sedgwick	27 S	1 E	9 NE SE NW	-97.3273342	37.7180153	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	20		15		Layne Christensen Co.	1040307006
66502	Sedgwick	27 S	1 E	9 SENENW	-97.3273323	37.719822	From PLSS	City of Wichita	Monitoring well/observation/piezometer	24-Mar-93	CONSTRUCTED			2005 N MOSLEY WICHITA KANSAS	39		12		Groundwater Technology	1040307012
66506	Sedgwick	27 S	1 E	9 SWSWNE	-97.3250511	37.7162157	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			1705 N WABASH, WICHITA KS	20		13		Groundwater Technology	1040307020
66508	Sedgwick	27 S	1 E	9 SWNESW	-97.3296248	37.712586	From PLSS	City of Wichita	Monitoring well/observation/piezometer	2-Apr-93	CONSTRUCTED			200' N E CORNER 15TH & SANTA FE WICHITA KS	38		13		Groundwater Technology	1040307024
66510	Sedgwick	27 S	1 E	9 SENENW	-97.3273323	37.719822	From PLSS	City of Wichita	Monitoring well/observation/piezometer	24-Mar-93	CONSTRUCTED			2005 N MOSLEY WICHITA KANSAS	18		12		Groundwater Technology	1040307028
66432	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	Derby Refining Co	Other	14-Oct-88	CONSTRUCTED		88911	350' S of 2044 N Clevland, Wichita	29		13		Hydro Resources Mid Continent, Inc.	1040306597
66433	Sedgwick	27 S	1 E	9 NE NW NE	-97.3227604	37.7216372	From PLSS	Derby Refining Co	Other	5-Oct-88	CONSTRUCTED		88911	350' S of 2044 N Cleveland, Wichita	29		13		Hydro Resources Mid Continent, Inc.	1040306599
66436	Sedgwick	27 S	1 E	9 SW NE NW	-97.3296173	37.7198168	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	23-Apr-84	CONSTRUCTED			1040 S and 540 W of 21st and Cleveland, Wichita	19	1307			David W. Daniels Drilling Company	1040306605
66439	Sedgwick	27 S	1 E	9 SWSWSW	-97.3341986	37.7089486	From PLSS		Lawn and Garden - domestic only	10-May-76	CONSTRUCTED				24		12	15	Glenn J. Protheroe Pump & Well Service	1040306611
66442	Sedgwick	27 S	1 E	9 NWSWNW	-97.3341892	37.7179968	From PLSS	RALSTON PURINA	Monitoring well/observation/piezometer	30-Jun-88	CONSTRUCTED			18TH & TOPEKA WICHITA KS	20		18		Layne Christensen Co.	1040306617
66446	Sedgwick	27 S	1 E	9 SWNESE	-97.3204848	37.7126223	From PLSS		Lawn and Garden - domestic only	25-Jul-78	CONSTRUCTED				32		20	50	21st Electric, Inc.	1040306625
66447	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED				25		12		David W. Daniels Drilling Company	1040306627
66449	Sedgwick	27 S	1 E	9 NESWNE	-97.3227642	37.7180276	From PLSS		Lawn and Garden - domestic only	16-Jun-83	CONSTRUCTED				35		12	80	Otis Bearden, Wayne Bearden	1040306631
66451	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED				25		11		David W. Daniels Drilling Company	1040306635
66453	Sedgwick	27 S	1 E	9 NWNENE	-97.3204754	37.7216415	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		13		David W. Daniels Drilling Company	1040306639
66454	Sedgwick	27 S	1 E	9 NWNENE	-97.3204754	37.7216415	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		13		David W. Daniels Drilling Company	1040306641
66457	Sedgwick	27 S	1 E	9 SENWSE	-97.3227698	37.7126132	From PLSS		Irrigation	5-Apr-81	CONSTRUCTED				43		16	10	Jet Water Well Drilling	1040306647
66458	Sedgwick	27 S	1 E	9 SENWNE	-97.3227623	37.7198324	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED				25		14		David W. Daniels Drilling Company	1040306649
66460	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		13		David W. Daniels Drilling Company	1040306653
66462	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		11		David W. Daniels Drilling Company	1040306657
66376	Sedgwick	27 S	1 E	9 NENENW	-97.3273304	37.7216288	From PLSS	NATIONAL BY WIC	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N. MOSLEY, WICHITA	20		13		GSI Engineering, LLC	1040305949
66379	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N Mosley, Wichita	20		13.67		GSI Engineering, LLC	1040305955
66380	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N Mosley, Wichita	20		14		GSI Engineering, LLC	1040305957
66382	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N Mosley, Wichita	20		12		GSI Engineering, LLC	1040305961
66463	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		11		David W. Daniels Drilling Company	1040306659
66466	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		12		David W. Daniels Drilling Company	1040306665
66467	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED				25		12		David W. Daniels Drilling Company	1040306667
66468	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Injection well/air sparge (AS)/shallow	31-Dec-81	CONSTRUCTED				35		13		David W. Daniels Drilling Company	1040306669
66470	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	26-Oct-83	CONSTRUCTED				25		10		David W. Daniels Drilling Company	1040306673
66473	Sedgwick	27 S	1 E	9 NE	-97.3216208	37.7189329	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	29-Aug-84	CONSTRUCTED			300 S and 50 W of 21st and Cleveland, Wichita	29				David W. Daniels Drilling Company	1040306679
66475	Sedgwick	27 S	1 E	9 NE	-97.3216208	37.7189329	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	28-Jun-84	CONSTRUCTED			500 S and 520 E of 21st and Cleveland, Wichita	30				David W. Daniels Drilling Company	1040306683
66477	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		11		David W. Daniels Drilling Company	1040306687
66479	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	25-Sep-81	CONSTRUCTED				23		11		David W. Daniels Drilling Company	1040306691
66430	Sedgwick	27 S	1 E	9 SE NW NE	-97.3227623	37.7198324	From PLSS	Derby Refining Co	Other	4-Oct-88	CONSTRUCTED		88909	W 2044 N Cleveland, Wichita	25		14		Hydro Resources Mid Continent, Inc.	1040306327
98763	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	Coastal Refinery	Monitoring well/observation/piezometer	11-May-95	CONSTRUCTED			1100 E 21st, Wichita	28		14		Harp Well & Pump Service, Inc.	1040365378
118879	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	13-Sep-97	CONSTRUCTED	MW 8D		1707 North Mosley, Wichita	39		0		Davis Environmental Drilling, LLC	1040395275
118884	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	12-Sep-97	CONSTRUCTED	MW 3D		1707 North Mosley, Wichita	35		13		Davis Environmental Drilling, LLC	1040395285
118888	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	10-Sep-97	CONSTRUCTED	MW 7S		1707 North Mosley, Wichita	18		13		Davis Environmental Drilling, LLC	1040395293
66377	Sedgwick	27 S	1 E	9 NE NE NW	-97.3273304	37.7216288	From PLSS	National By-Products	Monitoring well/observation/piezometer	27-Oct-93	CONSTRUCTED			2050 N Mosley, Wichita	20		15.71		GSI Engineering, LLC	1040305951
66438	Sedgwick	27 S	1 E	9 SE SE NE	-97.3181961	37.7162371	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	24-Jan-84	CONSTRUCTED			1340 S and 640 E of Cleveland and 21st, Wichita	22	1310			David W. Daniels Drilling Company	1040306609
66448	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	15-Jan-83	CONSTRUCTED				27		12		David W. Daniels Drilling Company	1040306629
66456	Sedgwick	27 S	1 E	9 NWNWNE	-97.3250454	37.721633	From PLSS		Monitoring well/observation/piezometer	2-Jun-81	CONSTRUCTED				25		12		David W. Daniels Drilling Company	1040306645
66461	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Injection well/air sparge (AS)/shallow	25-Sep-81	CONSTRUCTED				40		11		David W. Daniels Drilling Company	1040306655
66497	Sedgwick	27 S	1 E	9 NE SE NW	-97.3273342	37.7180153	From PLSS	Security Oil	Monitoring well/observation/piezometer	29-Nov-92	CONSTRUCTED			19th and Mosely, Wichita	19		15		Layne Christensen Co.	1040307002
103423	Sedgwick	27 S	1 E	9 NENENW	-97.3273304	37.7216288	From PLSS	KLEPPER KORNER	Monitoring well/observation/piezometer	9-Nov-95	CONSTRUCTED			15' S 13TH ST & 150' E MOSLEY ST WICHITA KS	18	1304.2	11.6		GeoCore, Inc.	1040366507
66392	Sedgwick	27 S	1 E	9 SWSWNW	-97.3341911	37.7161871	From PLSS	HEIMAN ELEVATOR	Monitoring well/observation/piezometer	3-Apr-91	CONSTRUCTED			SE OF 20TH AND TOPEKA WICHITA, KANSAS	24		17		Groundwater Technology	1040306253
66507	Sedgwick	27 S	1 E	9 SESWSW	-97.3319136	37.7089596	From PLSS	City of Wichita	Monitoring well/observation/piezometer	31-Mar-93	CONSTRUCTED			650 E 13TH, WICHITA, KS	41		13		Groundwater Technology	1040307022
66415	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	27-Sep-88	CONSTRUCTED			Cleveland and 21st St, Wichita	26		13		Hydro Resources Mid Continent, Inc.	1040306297
66419	Sedgwick	27 S	1 E	9 SE NW NE	-97.3227623	37.7198324	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	14-Sep-88	CONSTRUCTED			Cleveland and 20th St, Wichita	27		13		Hydro Resources Mid Continent, Inc.	1040306305

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66427	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	Derby Refining Co	Other	5-Oct-88	CONSTRUCTED		88912 W 2044 N Cleveland, Wichita	31		15	Hydro Resources Mid Continent, Inc.	1040306321
66469	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	26-Oct-82	CONSTRUCTED			25		11	David W. Daniels Drilling Company	1040306671
66474	Sedgwick	27 S	1 E	9 NENE	-97.3193339	37.7207419	From PLSS		Lawn and Garden - domestic only	1-Jun-76	CONSTRUCTED			47		15	Harp Well & Pump Service, Inc.	1040306681
66478	Sedgwick	27 S	1 E	9 NENWNE	-97.3227604	37.7216372	From PLSS		Monitoring well/observation/piezometer	25-Sep-81	CONSTRUCTED			24		11	David W. Daniels Drilling Company	1040306689
66414	Sedgwick	27 S	1 E	9 NW NE NE	-97.3204754	37.7216415	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	27-Sep-88	CONSTRUCTED		I-35 and 21st St, Wichita	32		17	Hydro Resources Mid Continent, Inc.	1040306295
66472	Sedgwick	27 S	1 E	9 NE	-97.3216208	37.7189329	From PLSS	Derby Refining Co	Monitoring well/observation/piezometer	22-Aug-84	CONSTRUCTED		260 S of 21st and Cleveland, Wichita	25			David W. Daniels Drilling Company	1040306677
118878	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	14-Sep-97	CONSTRUCTED	MW 9D	1707 North Mosley, Wichita	41		0	Davis Environmental Drilling, LLC	1040395273
118880	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	12-Sep-97	CONSTRUCTED	MW 7D	1707 North Mosley, Wichita	36		13	Davis Environmental Drilling, LLC	1040395277
118881	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	13-Sep-97	CONSTRUCTED	MW 6D	1707 North Mosley, Wichita	37		0	Davis Environmental Drilling, LLC	1040395279
118883	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	13-Sep-97	CONSTRUCTED	MW 4D	1707 North Mosley, Wichita	33		12	Davis Environmental Drilling, LLC	1040395283
118885	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	12-Sep-97	CONSTRUCTED	MW 2D	1707 North Mosley, Wichita	34		24	Davis Environmental Drilling, LLC	1040395287
118886	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	10-Sep-97	CONSTRUCTED	MW 8S	1707 North Mosley, Wichita	18		13	Davis Environmental Drilling, LLC	1040395289
118887	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	10-Sep-97	CONSTRUCTED	MW 9S	1707 North Mosley, Wichita	18		13	Davis Environmental Drilling, LLC	1040395291
118889	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	10-Sep-97	CONSTRUCTED	MW 6S	1707 North Mosley, Wichita	18		13	Davis Environmental Drilling, LLC	1040395295
118890	Sedgwick	27 S	1 E	9 NE NE SW	-97.3273379	37.7144018	From PLSS	Western Uniform and Towel	Monitoring well/observation/piezometer	10-Sep-97	CONSTRUCTED	MW 5S	1707 North Mosley, Wichita	18		13	Davis Environmental Drilling, LLC	1040395297
463914	Sedgwick	27 S	1 E	9 SW NW SW	-97.3341948	37.7125679	From PLSS	Kansas Gas Service	Cathodic Protection Borehole	21-Dec-12	CONSTRUCTED		E 15th St N and N Topeka, Wichita	107			GeoCore, Inc.	1044235419
459221	Sedgwick	27 S	1 E	9 SE SW SW	-97.3319136	37.7089596	From PLSS	Barker, Ethel	Lawn and Garden - domestic only	7-Jul-12	PLUGGED		backyard of 1445 N St. Francis, Wichita	20		12	JM Enterprises	1044191051
442983	Sedgwick	27 S	1 E	9 NW SE SW	-97.3286752	37.7101864	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	22-Mar-11	CONSTRUCTED	MW 4S	1520 N Barwise St, Wichita	25		13.63	Below Ground Surface, Inc.	1043690413
442985	Sedgwick	27 S	1 E	9 SE SE SW	-97.329074	37.7089842	GPS	Brenntag North America Inc.	Monitoring well/observation/piezometer	23-Mar-11	CONSTRUCTED	MW 5S	1520 N Barwise St, Wichita	26			Below Ground Surface, Inc.	1043690404
443209	Sedgwick	27 S	1 E	9 NW NE NE NW	-97.3274525	37.7224863	GPS	Darling International	Monitoring well/observation/piezometer	19-Apr-11	PLUGGED	MW 5	2050 N Mosley, Wichita	20	1310.56	13.14	SCS Aquaterra	1044000053
468309	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3253934	37.7213046	GPS	NIM, Inc	Monitoring well/observation/piezometer	8-Jul-13	PLUGGED	MW 5 A	1007 E 21st St N, Wichita	21.1		15.1	Environmental Priority Service, Inc.	1044634636
468313	Sedgwick	27 S	1 E	9 NE SW NW NE	-97.324136	37.7203963	GPS	NIM, Inc	Monitoring well/observation/piezometer	8-Jul-13	PLUGGED	MW 4 A	1007 E 21st St N, Wichita	20.8		15	Environmental Priority Service, Inc.	1042548087
467568	Sedgwick	27 S	1 E	9 NE NW NW	-97.3319004	37.7216203	From PLSS	Occidental Management Co.	Lawn and Garden - domestic only	5-Jul-13	CONSTRUCTED		10111 E 21st N, Wichita	85		20	Harp Well & Pump Service, Inc.	1044592410
468310	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3253934	37.7213046	GPS	NIM, Inc	Monitoring well/observation/piezometer	8-Jul-13	PLUGGED	MW 5 B	1007 E 21st St N, Wichita	38.5		15.3	Environmental Priority Service, Inc.	1042542490
468311	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3249234	37.7211449	GPS	NIM, Inc	Monitoring well/observation/piezometer	8-Jul-13	PLUGGED	MW 7 A	1007 E 21st St N, Wichita	22.4		16	Environmental Priority Service, Inc.	1042542390
468312	Sedgwick	27 S	1 E	9 SW NW NW NE	-97.3249234	37.7211449	GPS	NIM, Inc	Monitoring well/observation/piezometer	8-Jul-13	PLUGGED	MW 7 B	1007 E 21st St N, Wichita	37		15.6	Environmental Priority Service, Inc.	1042542428
468314	Sedgwick	27 S	1 E	9 NE SW NW NE	-97.324136	37.7203963	GPS	NIM, Inc	Monitoring well/observation/piezometer	8-Jul-13	PLUGGED	MW 4 B	1007 E 21st St N, Wichita	33		15	Environmental Priority Service, Inc.	1042548057

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WELL_ID	COUNTY	TOWNSHIP	TWN_DIR	RANGE	RANGE_DIR	SECTION	SPOT	LONGITUDE	LATITUDE	LONG_LAT_TYPE	OWNER	WELL_USE	COMPLE_DATE	STATUS	OTHER_ID	DWR_NUMBER	DIRECTIONS	WELL_DEPTH	ELEV	STATIC_DEPTH	EST_YIELD	DRILLER	WELL_KID
66677	Sedgwick	27	S	1	E	16	NESESE	-97.3181199	37.6962868	From PLSS	WICHITA WIRE IN	Monitoring well/observation/piezometer	10-Sep-90	CONSTRUCTED			630 NO. PENNSYLVANIA WICHITA, KS.	30		15		Harp Well & Pump Service, Inc.	1040308383
66680	Sedgwick	27	S	1	E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFENS DAIRY	Monitoring well/observation/piezometer	16-Dec-90	CONSTRUCTED			CENTRAL & MEAD, WICHITA, KS	24		16		Groundwater Technology	1040308389
66684	Sedgwick	27	S	1	E	16	NESWSW	-97.3318482	37.6962459	From PLSS	AFFILIATED PROP	Monitoring well/observation/piezometer	15-Jan-91	CONSTRUCTED			NW CORNER OF PINE & SANTA FE	31		19		Professional Engineering Consultants, PA	1040308397
66686	Sedgwick	27	S	1	E	16	NWNWNW	-97.3341946	37.7071357	From PLSS	AFF PROP SRVC	Monitoring well/observation/piezometer	27-Sep-90	CONSTRUCTED			10TH & TOPEKA NW CORNER WICHITA KS 70' W OF TOPEKA 20' N OF 10TH	24		14		Professional Engineering Consultants, PA	1040308401
66689	Sedgwick	27	S	1	E	16	NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 N MOSLEY	30		15		Layne Christensen Co.	1040308407
66696	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15		Layne Christensen Co.	1040308421
66628	Sedgwick	27	S	1	E	16	NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	19-Aug-93	CONSTRUCTED				33		0		Layne Christensen Co.	1040308026
66630	Sedgwick	27	S	1	E	16	SENENW	-97.3273278	37.7053509	From PLSS	City of Wichita	Monitoring well/observation/piezometer	21-Apr-93	CONSTRUCTED			1050 N MOSLEY WICHITA KANSAS	32		12		Groundwater Technology	1040308030
66633	Sedgwick	27	S	1	E	16	NWNESW	-97.3295815	37.6998878	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			918 W SANTA FE, WICHITA KS	40		13		Groundwater Technology	1040308036
66617	Sedgwick	27	S	1	E	16	NWNENE	-97.3204832	37.7072025	From PLSS	STUCKY	Lawn and Garden - domestic only	29-Apr-94	PLUGGED			1245 N RIVER BLDG	17	1300	17		Bearden Pump & Well Service	1044006455
66622	Sedgwick	27	S	1	E	16	NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	19-Aug-93	CONSTRUCTED				18		14		Layne Christensen Co.	1040307744
66627	Sedgwick	27	S	1	E	16	NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Other	19-Aug-96	CONSTRUCTED				34		0		Layne Christensen Co.	1040307754
66635	Sedgwick	27	S	1	E	16	NWNWSW	-97.3341557	37.6998713	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			9TH & SANTA FE WICHITA, KS	22		14		Groundwater Technology	1040308040
66636	Sedgwick	27	S	1	E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	24		15		Layne Christensen Co.	1040308042
66640	Sedgwick	27	S	1	E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	23		15		Layne Christensen Co.	1040308050
66645	Sedgwick	27	S	1	E	16	NCSENW	-97.3284597	37.7035277	From PLSS	AFFILIATED PROP	Monitoring well/observation/piezometer	4-Jun-92	PLUGGED			20' N & 30' WEST OF NW CORNER OF 10TH & SANTA FE WICHITA	24				Professional Engineering Consultants, PA	1044006371
66646	Sedgwick	27	S	1	E	16	NCSENW	-97.3284597	37.7035277	From PLSS	AFFILIATED	Monitoring well/observation/piezometer	25-Jul-92	CONSTRUCTED			20' N & 20' W OF NW CORNER OF 10TH & SANTA FE WICHITA KANSAS	24		17		Professional Engineering Consultants, PA	1040308061
66652	Sedgwick	27	S	1	E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	24		15		Layne Christensen Co.	1040308073
66653	Sedgwick	27	S	1	E	16	SWNWNE	-97.3250421	37.7053613	From PLSS		Lawn and Garden - domestic only	26-Jun-82	CONSTRUCTED				80		30		Harp Well & Pump Service, Inc.	1040308075
66655	Sedgwick	27	S	1	E	16	SENESW	-97.3272832	37.6980778	From PLSS	HWS TECHNOL INC	Industrial	11-Jul-86	CONSTRUCTED			810 EAST MURDOCK WICHITA KS	34		13	20	Layne Christensen Co.	1040308079
66661	Sedgwick	27	S	1	E	16	NENESW	-97.3272944	37.6998961	From PLSS	EBY CONST CO	Dewatering	21-Feb-87	CONSTRUCTED		38432	ST FRANCIS & EMPORIA WICHITA, KANSAS	40		15		Harp Well & Pump Service, Inc.	1040308091
66666	Sedgwick	27	S	1	E	16	SWNESE	-97.3204205	37.6981004	From PLSS	STEEL INC	Monitoring well/observation/piezometer	16-Jun-89	CONSTRUCTED			100' EAST OF THE INTERSECTION OF ELM CLEAVELAND AND 15.0' NORTH OF ELM ST.	30		14		HWS Consulting Group Inc.	1040308098
66669	Sedgwick	27	S	1	E	16	SENENW	-97.3273278	37.7053509	From PLSS	WESTINGHOUSE EL	Monitoring well/observation/piezometer	22-Nov-89	CONSTRUCTED			175 E OF FRONT DOOR OF WESCO, 1257 N MOSLEY, WICHITA, KS	20	1305	14		Terracon Consultants, Inc.	1040308104
66672	Sedgwick	27	S	1	E	16	NWNWNE	-97.3250537	37.7071803	From PLSS	KLUGE	Lawn and Garden - domestic only	18-Apr-89	PLUGGED				25		15		R & A Water Well Service	1044006453
66673	Sedgwick	27	S	1	E	16	SESWNW	-97.3318788	37.7016964	From PLSS	ST. FRANCIS ENG	Dewatering	27-Feb-90	PLUGGED		909011	929 N ST FRANCIS WICHITA, KS.	40		17		Harp Well & Pump Service, Inc.	1040308381
66675	Sedgwick	27	S	1	E	16	NESESW	-97.3272721	37.6962595	From PLSS	COLEMAN	Monitoring well/observation/piezometer	22-Mar-90	CONSTRUCTED			1000 E MURDOCK WICHITA KS	30		15		Harp Well & Pump Service, Inc.	1040308114
93827	Sedgwick	27	S	1	E	16	SESWSW	-97.331838	37.694429	From PLSS	Fina Oil and Chemical Co.	Monitoring well/observation/piezometer	12-Jul-94	CONSTRUCTED			8000 W CENTRAL WICHITA KANSAS	40		0		Funkee Drlg. Ser., Inc.	1040351986
95947	Sedgwick	27	S	1	E	16	SESENW	-97.3273055	37.7017143	From PLSS	HOUSE OIL CO.	Other	22-Nov-94	CONSTRUCTED			190' SOUTHWEST OF THE SOUTHWEST CORNER OF 10TH & MOSELY	40		15		GeoCore, Inc.	1040356652
98164	Sedgwick	27	S	1	E	16	NENWSW	-97.3318686	37.6998795	From PLSS	ST FRANCIS REGN	Lawn and Garden - domestic only	28-Mar-95	PLUGGED			911 N EMPORIA WICHITA KS	25		15		Harp Well & Pump Service, Inc.	1044006392
104885	Sedgwick	27	S	1	E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Monitoring well/observation/piezometer	20-Dec-95	CONSTRUCTED			1221 E MURDOCK WICHITA KS	24		12		MIKON Corporation	1040371441
107888	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	3-Jul-96	PLUGGED				19		15		GeoCore, Inc.	1044006379
107889	Sedgwick	27	S	1	E	16	SESENW	-97.3273055	37.7017143	From PLSS	HOUSE OIL	Monitoring well/observation/piezometer	3-Jul-96	PLUGGED				20		15		GeoCore, Inc.	1044006378
107890	Sedgwick	27	S	1	E	16	SESENW	-97.3273055	37.7017143	From PLSS	HOUSE OIL	Monitoring well/observation/piezometer	3-Jul-96	PLUGGED				20				GeoCore, Inc.	1044006373
107891	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	3-Jul-96	PLUGGED				19		15		GeoCore, Inc.	1044006377
104700	Sedgwick	27	S	1	E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Industrial	21-Dec-95	PLUGGED			1221 MURDOCK WICHITA KS	26		13		MIKON Corporation	1044006450
106117	Sedgwick	27	S	1	E	16	NESWSE	-97.322696	37.6962732	From PLSS	HONER	Irrigation	18-Apr-96	PLUGGED			2 FT S OF 4500 LAURA WICHITA KS	25		8			1044006446
104703	Sedgwick	27	S	1	E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Industrial	21-Dec-95	PLUGGED			1221 E MURDOCK WICHITA KS	25		20		MIKON Corporation	1044006447
113336	Sedgwick	27	S	1	E	16	NENWNW	-97.3319094	37.7071468	From PLSS	COLE, JERRY	Domestic	25-Mar-97	PLUGGED			1349 N. EMPORIA, WICHITA, KS	32		12		Harp Well & Pump Service, Inc.	1044006415
115150	Sedgwick	27	S	1	E	16	NWNENW	-97.3296242	37.707158	From PLSS	CARPENTER	Domestic	19-Dec-96	PLUGGED				24	1150			R & A Water Well Service	1044006411
302529	Sedgwick	27	S	1	E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	8-Jan-99	CONSTRUCTED		990003	13 N. and Ohio in Wichita, Kansas	40		16		Harp Well & Pump Service, Inc.	1040398979
302530	Sedgwick	27	S	1	E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	8-Jan-99	CONSTRUCTED		990003	13 N. and Ohio in Wichita, Kansas	40		16		Harp Well & Pump Service, Inc.	1040398981
302531	Sedgwick	27	S	1	E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	19-Jan-99	CONSTRUCTED		990003	13 N. and Ohio in Wichita, Kansas	40		16		Harp Well & Pump Service, Inc.	1040398983
300258	Sedgwick	27	S	1	E	16	NE SE SW	-97.3272721	37.6962595	From PLSS	Safelite Auto Glass	Air Conditioning	28-Oct-98	PLUGGED			721 E. Murdock Wichita, KS	49		19		Harp Well & Pump Service, Inc.	1044006403
302989	Sedgwick	27	S	1	E	16	NW NW SW	-97.3341557	37.6998713	From PLSS	Town and Country Markets	Monitoring well/observation/piezometer	10-Nov-98	PLUGGED			803 N Broadway - Wichita KS	21.5		14.2		GSI Engineering, LLC	1040360369
303082	Sedgwick	27	S	1	E	16	NC SE SE	-97.3192639	37.6962834	From PLSS	Rebecca S. Tyler	Lawn and Garden - domestic only	12-Oct-98	PLUGGED			1048 Coolidge in Wichita, Kansas	25		15			1044006424
310814	Sedgwick	27	S	1	E	16	NC N2	-97.3261906	37.7062654	From PLSS	City of Wichita	Dewatering	24-Jan-00	CONSTRUCTED		990255	11th & Washington	50		4		Harp Well & Pump Service, Inc.	1040411381
310005	Sedgwick	27	S	1	E	16	NC N2	-97.3261906	37.7062654	From PLSS	City of Wichita	Dewatering	9-Dec-99	CONSTRUCTED		990255	11th N & Washington	40		12		Harp Well & Pump Service, Inc.	1040412552
310006	Sedgwick	27	S	1	E	16	NC N2	-97.3261906	37.7062654	From PLSS	City of Wichita	Dewatering	9-Dec-99	CONSTRUCTED		990255	1th N & Washington	40		12		Harp Well & Pump Service, Inc.	1040412554
310542	Sedgwick	27	S	1	E	16	C N2	-97.3261793	37.7044468	From PLSS	City of Wichita	Dewatering	10-Jan-00	CONSTRUCTED		990255	11th & Washington	50		50		Harp Well & Pump Service, Inc.	1040415959
310545	Sedgwick	27	S	1	E	16	C N2	-97.3261793	37.7044468	From PLSS	City of Wichita	Dewatering	31-Jan-00	PLUGGED		990255	11th and Washington	50		12		Harp Well & Pump Service, Inc.	1040415959
314823	Sedgwick	27	S	1	E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990003	13th N & Ohio	40		16		Harp Well & Pump Service, Inc.	1040398981
313029	Sedgwick	27	S	1	E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Steve Arnold	Domestic	31-May-00	CONSTRUCTED			6701 W 77th N	40		15		Harp Well & Pump Service, Inc.	1040418617
313030	Sedgwick	27	S	1	E	16	NE NW NW	-97.3319094	37.7071468	From PLSS	Steve Kraull	Lawn and Garden - domestic only	31-May-00	CONSTRUCTED			1313 N Emporia	40		15		Harp Well & Pump Service, Inc.	1040418619
314418	Sedgwick	27	S	1	E	16	SW NW NW	-97.3341849	37.7053196	From PLSS	Ochsner Eye Clinic	Air Conditioning	21-Jul-00	CONSTRUCTED			1100 N Topeka	42		15		Harp Well & Pump Service, Inc.	1040420455
314730	Sedgwick	27	S	1	E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990003	13th N & Ohio	40		16		Harp Well & Pump Service, Inc.	1040398977
314731	Sedgwick	27	S	1	E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	18-Aug-00	PLUGGED		990003	13th N & Ohio	40		16		Harp Well & Pump Service, Inc.	1040398979
319004	Sedgwick	27	S	1	E	16	SW NW NE	-97.3250421	37.7053613	From PLSS	City of Wichita	Monitoring well/observation/piezometer	8-Jan-01	CONSTRUCTED	NMW-31D		48' E of Wabash, 5' N of 11th	29.3				Environmental Priority Service, Inc.	1040423324
319005	Sedgwick	27	S	1	E	16	SW NW NE	-97.3250421	37.7053613	From PLSS	City of Wichita	Monitoring well/observation/piezometer	8-Jan-01	CONSTRUCTED	NMW-31S		48' E of Wabash, 5' N of 11th	20.1				Environmental Priority Service, Inc.	1040423326
319018	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NMW-13D		6' S of 13th St N, 217' W of Pennsylvania	27.3				Environmental Priority Service, Inc.	1040423352
319020	Sedgwick	27	S	1	E	16	SW NE NE	-97.3204707	37.7053821	From PLSS	City of Wichita	Monitoring well/observation/piezometer	9-Jan-01	CONSTRUCTED	NMW-15D		3' N of 11th St N, 50' W of New York	28.2				Environmental Priority Service, Inc.	1040423356
319021	Sedgwick	27	S	1	E	16	SW NE NE	-97.3204707	37.7053821	From PLSS	City of Wichita	Monitoring well/observation/piezometer	9-Jan-01	CONSTRUCTED	NMW-15S		3' N of 11th St N, 50' W of New York	19.9				Environmental Priority Service, Inc.	1040423358
319022	Sedgwick	27	S	1	E	16	SW NE NE	-97.3204707	37.7053821	From PLSS	City of Wichita	Monitoring well/observation/piezometer	9-Jan-01	CONSTRUCTED	NMW-32D		10' N of 11th St N, 139' W of Cleveland	29.4				Environmental Priority Service, Inc.	1040423360
319024	Sedgwick	27	S	1	E	16	NE SE NE	-97.318172	37.7035714	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NMW-16D		358' of 11th St N, 1' E of I-135	29				Environmental Priority Service, Inc.	1040423364
319025	Sedgwick	27	S	1	E	16	NE SE NE	-97.318172	37.7035714	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NMW-16S		358' of 11th St N, 1' E of I-135	19.7				Environmental Priority Service, Inc.	1040423366
319026	Sedgwick	27	S	1	E	16	SE SW NE	-97.3227322	37.7017323	From PLSS	Bill Porter Wrecking	Lawn and Garden - domestic only	12-Mar-01	PLUGGED			2424 E 9th	36		18		Jerome Weninger Drilling, Inc.	1044006418
319028	Sedgwick	27	S	1	E	16	SE NW NW	-97.3318992	37.70533	From PLSS	City of Wichita	Monitoring well/observation/piezometer	9-Jan-01	CONSTRUCTED	NMW-35S		3' N of 11th St N, 11' E of Emporia	20				Environmental Priority Service, Inc.	1040423371
319029	Sedgwick	27	S	1	E	16	SE NE SE	-97.3181329	37.698108	From PLSS	City of Wichita	Monitoring well/observation/piezometer	23-Jan-01	CONSTRUCTED	NMW-27D		134' N of Murdock, 1' W of Hydraulic	25.1				Environmental Priority Service, Inc.	1040423373
319031	Sedgwick	27	S	1	E	16	SE SE SW	-97.327261	37.6944413	From PLSS	City of Wichita	Monitoring well/observation/piezometer	10-Jan-01	CONSTRUCTED	NMW-28D		5' N of Central, 150' W of Washington	38.7				Environmental Priority Service, Inc.	1040423377
319032	Sedgwick	27	S	1	E	16	SE SE SW	-97.327261	37.6944413	From PLSS	City of Wichita	Monitoring well/observation/piezometer	10-Jan-01	CONSTRUCTED	NMW-28S		5' N of Central, 150' W of Washington	22.1				Environmental Priority Service, Inc.	1040423379
317151	Sedgwick	27	S	1	E	16	SE SE NE	-97.318159	37.7017503	From PLSS	House Oil Co.	Recovery/Soil Vapor Extraction/Soil Vent	22-Nov-00	PLUGGED			160' NW of the NW corner of 9th & Mosley	40		15		GeoCore, Inc.	1044006422
317153	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil	(unstated)/abandoned	21-Nov-00	PLUGGED			1055 N Mosley	33				GeoCore, Inc.	1044006384
317154	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil	Monitoring well/observation/piezometer	21-Nov-00	PLUGGED			1055 N Mosley	29.5		15		GeoCore, Inc.	1044006383
317157	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Co.	Recovery/Soil Vapor Extraction/Soil Vent	21-Nov-00	PLUGGED	RW-2		260' SW of the SW corner of 10th & Mosley	40		15		GeoCore, Inc.	1044006376
329120	Sedgwick	27	S	1	E	16	NE SE NE	-97.318172	37.7035714	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Apr-02	CONSTRUCTED	NMW-16DR		Immediately E of I-135, midway between 10th & 11th on Pennsylvania	32.3				Environmental Priority Service, Inc.	1040436154
326016	Sedgwick	27	S	1	E	16	SE SE SW	-97.327261	37.6944413	From PLSS	William H. Shivley, Sr.	Monitoring well/observation/piezometer	22-Jan-01	PLUGGED	MW 5		519 N Washington, Wichita	19		13.7		GSI Engineering, LLC	1044006402
342489	Sedgwick	27	S	1	E	16	SE SW SW	-97.331838	37.694429	From PLSS	USD 259	Lawn and Garden - domestic only	30-Sep-03	PLUGGED			640 N Emporia, Wichita	41		13		Harp Well & Pump Service, Inc.	1044006399
346020	Sedgwick	27	S	1	E	16	NE SE	-97.3192831	37.6990146	From PLSS	City of Wichita	Monitoring well/observation/piezometer	17-Feb-04	CONSTRUCTED	NMW 49S		180' W of I-135, 10' N of N edge of 9th St, Wichita	25		21.7		Environmental Priority Service, Inc.	1040463473
346021	Sedgwick	27	S	1	E	16	NE SE	-97.3192831	37.6990146	From PLSS	City of Wichita	Monitoring well/observation/piezometer	17-Feb-04	CONSTRUCTED	NMW 49D		180' W of I-135, 10' N of N edge of 9th St, Wichita	35		21.7		Environmental Priority Service, Inc.	1040463475
346023	Sedgwick	27	S	1	E	16	NE SE	-97.3192831	37.6990146	From PLSS	City of Wichita	Monitoring well/observation/piezometer	17-Feb-04	CONSTRUCTED	NMW 50D		25' W of C line of Mathewson, 10' N of 9th St, Wichita	27.5		14.7		Environmental Priority Service, Inc.	1040463479
346024	Sedgwick	27	S	1	E	16	SW SE	-97.3238341	37.6953601	From PLSS	City of Wichita	Monitoring well/observation/piezometer	17-Feb-04	CONSTRUCTED	NMW 51S		8' W of Ohio, 167' S of Murdock St	21		14		Environmental Priority Service, Inc.	1040463481
346028	Sedgwick	27	S	1	E	16	SW SE	-97.3238341	37.6953601	From PLSS	City of Wichita	Monitoring well/observation/piezometer	17-Feb-04	CONSTRUCTED	NMW 51D		8' W of Ohio, 167' S of Murdock St	28		14		Environmental Priority Service, Inc.	1040463483
344535	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Company, Inc	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 40 S		1055 N Mosley, Wichita	20				GeoCore, Inc.	1044006375
343454	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 13		1055 N Mosley, Wichita	30		13.4		GeoCore, Inc.	1044006385
343455	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 14		1055 N Mosley	30		13.45		GeoCore, Inc.	1044006386
344491	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Company, Inc.	Monitoring well/observation/piezometer	29-Dec-03	CONSTRUCTED	MW 1R		1055 N Mosley, Wichita	19	1303.82			GeoCore, Inc.	1040467870
344493	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Company, Inc.	Monitoring well/observation/piezometer	29-Dec-03	CONSTRUCTED	MW 3R		1055 N Mosely, Wichita	19	1302.59	12.96		GeoCore, Inc.	1040467874
344494	Sedgwick	27	S	1	E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Company, Inc.	Monitoring well/observation/piezometer	29-Dec-03	CONSTRUCTED	MW 4R		1055 N Mosely, Wichita	19	1301.97	12.8		GeoCore, Inc.	1040467876
343457	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 12		1055 N Mosley, Wichita	30		12.35		GeoCore, Inc.	1044006387
349097	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	28-May-04	CONSTRUCTED	MW 1		1649 E 13th St, Wichita	26		14.33		AAA Drilling and Testing	1040472697
349100	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	28-May-04	CONSTRUCTED	MW 4		1649 E 13th St, Wichita	20		14.09		AAA Drilling and Testing	1040472699
349102	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	27-May-04	CONSTRUCTED	MW 7		1649 E 13th St, Wichita	20		13.62		AAA Drilling and Testing	1040472701
352580	Sedgwick	27	S	1	E	16	NE NE NW	-97.3273389	37.7071691	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 24S		15' N of 13th St, 15' W of Mosley St	20.5		13.65		Environmental Priority Service, Inc.	1040472104
352582	Sedgwick	27	S	1	E	16	SW SW NE	-97.3250189	37.7017233	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 26S		SW corner of 9th and Wabash St	20		12.9		Environmental Priority Service, Inc.	1040472106
352583	Sedgwick	27	S	1	E	16	SE SE SW	-97.327261	37.6944413	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 27S		Elm and Emporia St	21		13.8		Environmental Priority Service, Inc.	1040473048
349098	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	28-May-04	CONSTRUCTED	MW 3		1649 E 13th St, Wichita	20		13.34		AAA Drilling and Testing	1040473981
352581	Sedgwick	27	S	1	E	16	NE SE NW	-97.3273167	37.7035326	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 25S		SW corner of 11th and Mosley St	20.5		13.5		Environmental Priority Service, Inc.	1040475210
358077	Sedgwick	27	S	1	E	16	NE NE SW	-97.3272944	37.6998961	From PLSS	Melton, Mike	Lawn and Garden - domestic only	13-Dec-04	PLUGGED			901 N Mosley, Wichita	31		13		Harp Well & Pump Service, Inc.	1044006368
364512	Sedgwick	27	S	1	E	16	SW NE SW	-97.3295708	37.6980702	From PLSS	Mid-American Dairymen, Inc	Monitoring well/observation/piezometer	12-Apr-05	CONSTRUCTED	MW 5		700 E Central, Wichita	21				Associated Environmental, Inc.	1040487573
377327	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	Nicholson, Rudy	Monitoring well/observation/piezometer	25-Aug-05	CONSTRUCTED	MW 16		from 1649 E 13th St: NE, NW corner of 13th and Hydraulic	20	1302.95	12.75		Max's Enterprises, Inc.	1040490275
364515	Sedgwick	27	S	1	E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Mid American Dairymen, Inc	Monitoring well/observation/piezometer	12-Apr-05	PLUGGED	MW 7		700 E Central, Wichita	20		15.45		Associated Environmental, Inc.	1044006396
379439	Sedgwick	27	S	1	E	16	NE NE NW	-97.3273389	37.7071691	From PLSS	Klepper Korner Store	Monitoring well/observation/piezometer	28-Dec-05	CONSTRUCTED	MW 5R		1401 Mosley, Wichita	18				GeoCore, Inc.	1040490379
377330	Sedgwick	27	S	1	E	16	NE NE NE	-97.318198	37.7072137	From PLSS	City of Wichita	Monitoring well/observation/piezometer	25-Aug-05	CONSTRUCTED	MW 17		from 1649 E 13th St: 550' SW, 15' E of Northbound I 135 exit	20	1300.69	11.72		Max's Enterprises, Inc.	1040494196
390240	Sedgwick	27	S	1	E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	Held, Roger	Air Conditioning	20-Jul-06	PLUGGED			10th and Mosley, Wichita	35				Pratt Well Service, Inc.	1044006388
391637	Sedgwick	27	S	1	E	16	NE SW SE	-97.322696	37.6962732	From PLSS	Faber Trust Properties, LLC	Monitoring well/observation/piezometer	19-Sep-06	CONSTRUCTED	MW 4		505 N Webb Rd, Wichita	30		23.37		GeoCore, Inc.	1040503255
391643	Sedgwick	27	S	1	E	16	SW SW SW	-97.3341265	37.6944229	From PLSS	Kum and Go, LLC	Monitoring well/observation/piezometer	21-Sep-06	CONSTRUCTED	MW 5		707 N Waco, Wichita	21		15.07		GeoCore, Inc.	1040503257
391639	Sedgwick	27	S	1	E	16	SW SW SW	-97.3341265	37.6944229	From PLSS	Kum and Go, LLC	Monitoring well/observation/piezometer	20-Sep-06	CONSTRUCTED	MW 1		707 N Waco, Wichita	19		13.82		GeoCore, Inc.	1040507680
391641	Sedgwick	27	S	1	E	16	SW SW SW	-97.3341265	37.6944229	From PLSS	Kum and Go, LLC	Monitoring well/observation/piezometer	20-Sep-06	CONSTRUCTED	MW 3		707 N Waco, Wichita	19		13.61		GeoCore, Inc.	1040509156
391634	Sedgwick	27	S	1	E	16	NE SW SE	-97.322696	37.6962732	From PLSS	Faber Trust Properties, LLC	Monitoring well/observation/piezometer	18-Sep-06	CONSTRUCTED	MW 1		505 N Webb Rd, Wichita	30		22.31		GeoCore, Inc.	1040509243

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391635	Sedgwick	27 S	1 E	16	NE SW SE	-97.322696	37.6962732	From PLSS	Faber Trust Properties, LLC	Monitoring well/observation/piezometer	18-Sep-06	CONSTRUCTED	MW 2		505 N Webb Rd, Wichita	39		24.79		GeoCore, Inc.	1040509245
391640	Sedgwick	27 S	1 E	16	SW SW SW	-97.3341265	37.6944229	From PLSS	Kum and Go, LLC	Monitoring well/observation/piezometer	20-Sep-06	CONSTRUCTED	MW 2		707 N Waco, Wichita	19		15.24		GeoCore, Inc.	1040509443
401151	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 6 A		715 E 13th St, Wichita	42		15.8		Below Ground Surface, Inc.	1040516257
401146	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 3 B		715 E 13th St, Wichita	23		14.8		Below Ground Surface, Inc.	1040520282
401153	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 6 B		715 E 13th St, Wichita	24		15.8		Below Ground Surface, Inc.	1040517492
401141	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 1 A		715 E 13th St, Wichita	41		14.2		Below Ground Surface, Inc.	1040520517
404992	Sedgwick	27 S	1 E	16	SE NE NW	-97.3273278	37.7053509	From PLSS	Sheets, Morrie	Irrigation	7-Aug-07	PLUGGED			1140 N Mosley, Wichita	24		10		Harp Well & Pump Service, Inc.	1043952247
401142	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 1 B		715 E 13th St, Wichita	24		14.2		Below Ground Surface, Inc.	1040521315
401154	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 7 A		715 E 13th St, Wichita	41		15.7		Below Ground Surface, Inc.	1040522285
401148	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 4 B		715 E 13th St, Wichita	22		14.8		Below Ground Surface, Inc.	1040521538
401143	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 2 A		715 E 13th St, Wichita	41		16.4		Below Ground Surface, Inc.	1040519371
414058	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	8-Jan-08	CONSTRUCTED	MW 13		700 E Central, Wichita	23		15.75		Quad State Services, Inc.	1040530425
414057	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	8-Jan-08	CONSTRUCTED	MW 12		700 E Central, Wichita	23		15.71		Quad State Services, Inc.	1040529855
414061	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Recovery/Soil Vapor Extraction/Soil Vent	8-Jan-08	CONSTRUCTED	SVE 1		700 E Central, Wichita	15.5				Quad State Services, Inc.	1040529857
414056	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Injection well/air sparge (AS)/shallow	8-Jan-08	CONSTRUCTED	AS 7		700 E Central, Wichita	32		14.42		Quad State Services, Inc.	1040533184
414053	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Injection well/air sparge (AS)/shallow	8-Jan-08	CONSTRUCTED	AS 4		700 E Central, Wichita	31		15.92		Quad State Services, Inc.	1040531314
414052	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Injection well/air sparge (AS)/shallow	8-Jan-08	CONSTRUCTED	AS 2		700 E Central, Wichita	32		14.41		Quad State Services, Inc.	1040532740
414055	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Injection well/air sparge (AS)/shallow	8-Jan-08	CONSTRUCTED	AS 6		700 E Central, Wichita	32		14.42		Quad State Services, Inc.	1040532742
414051	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Injection well/air sparge (AS)/shallow	8-Jan-08	CONSTRUCTED	AS 1		700 E Central, Wichita	32		15.75		Quad State Services, Inc.	1040530306
349101	Sedgwick	27 S	1 E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	27-May-04	CONSTRUCTED	MW 6		1649 E 13th St, Wichita	20		14.15		AAA Drilling and Testing	1040537123
364513	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Mid American Dairymen, Inc	Monitoring well/observation/piezometer	12-Apr-05	PLUGGED	MW 5		700 E Central, Wichita	20				Associated Environmental, Inc.	1044006395
424013	Sedgwick	27 S	1 E	16	NE NE NW	-97.3273389	37.7071691	From PLSS	Klepper Korner Store	Monitoring well/observation/piezometer	3-Apr-09	PLUGGED	MW 6	110044	1401 N Mosley, Wichita	18		11.82		GeoCore, Inc.	1044006366
420825	Sedgwick	27 S	1 E	16	NE SE NW	-97.3273167	37.7035326	From PLSS	Kansas Plating	Monitoring well/observation/piezometer	8-Dec-08	CONSTRUCTED			1110 N Mosely (in alleyway of site)	25		12		Environmental Priority Service, Inc.	1040548362
423519	Sedgwick	27 S	1 E	16	NE NW NE NW	-97.3290556	37.7076152	From PLSS	Cargill	Monitoring well/observation/piezometer	20-Mar-09	CONSTRUCTED			715 E 13th St, Wichita	20		16		Below Ground Surface, Inc.	1040550035
420827	Sedgwick	27 S	1 E	16	NE SE NW	-97.3273167	37.7035326	From PLSS	Kansas Plating	Monitoring well/observation/piezometer	9-Dec-08	CONSTRUCTED			1110 N Mosely (SE corner of site)	25		12		Environmental Priority Service, Inc.	1040549802
420826	Sedgwick	27 S	1 E	16	NE SE NW	-97.3273167	37.7035326	From PLSS	Kansas Plating	Monitoring well/observation/piezometer	9-Dec-08	CONSTRUCTED			1110 N. Mosely (NW corner of site)	25		12		Environmental Priority Service, Inc.	1040550411
66623	Sedgwick	27 S	1 E	16	NWNWNE	-97.3250537	37.7071803	From PLSS	City of Wichita	Monitoring well/observation/piezometer	31-Mar-93	CONSTRUCTED			1001 E. 13TH, WICHITA KS	19		0		Groundwater Technology	1040307746
430593	Sedgwick	27 S	1 E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Company	Monitoring well/observation/piezometer	10-Sep-09	CONSTRUCTED	MW 17		from NE corner of 9th and Mosley, Wichita: 130' N, 120' E (tag 0042710)	20	1302.73			GeoCore, Inc.	1041513175
430588	Sedgwick	27 S	1 E	16	NE SE NW	-97.3273167	37.7035326	From PLSS	House Oil Company	Monitoring well/observation/piezometer	10-Sep-09	CONSTRUCTED	MW 40 SR		from SE corner of 10th St and N Mosley, Wichita: 100' E (tag 0042709)	18	1301.9			GeoCore, Inc.	1041513344
439245	Sedgwick	27 S	1 E	16	SW SW SW	-97.3341265	37.6944229	From PLSS	Bloom, Vicki	Lawn and Garden - domestic only	14-Sep-10	CONSTRUCTED			406 E Central Ave, Wichita	40		13		Chase Drilling	1043128099
439860	Sedgwick	27 S	1 E	16	SE SE NE	-97.318159	37.7017503	From PLSS	City of Wichita	Air Conditioning	8-Nov-10	PLUGGED			1007 N Cleveland Ave, Wichita	28		17		Harp Well & Pump Service, Inc.	1044006420
439861	Sedgwick	27 S	1 E	16	SE SE NE	-97.318159	37.7017503	From PLSS	City of Wichita	Air Conditioning	8-Nov-10	PLUGGED			1007 N Cleveland Ave, Wichita	28		17		Harp Well & Pump Service, Inc.	1044006419
66682	Sedgwick	27 S	1 E	16	SWSWSW	-97.3341265	37.6944229	From PLSS	CONTINENTAL	Monitoring well/observation/piezometer	14-Sep-90	CONSTRUCTED			601 N. EMPORIA, WICHITA, KANSAS	22		12		HWS Consulting Group Inc.	1040308393
66687	Sedgwick	27 S	1 E	16	SENWNW	-97.3318992	37.70533	From PLSS	AFFILIATED PROP	Monitoring well/observation/piezometer	14-Jun-91	CONSTRUCTED			NE CORNER OF 10TH AND SANTA FE	38		16		Professional Engineering Consultants, PA	1040308403
66691	Sedgwick	27 S	1 E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15		Layne Christensen Co.	1040308411
66638	Sedgwick	27 S	1 E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	21		15		Layne Christensen Co.	1040308046
66647	Sedgwick	27 S	1 E	16	NWSESE	-97.320408	37.69628	From PLSS	STEEL	Monitoring well/observation/piezometer	6-Nov-92	CONSTRUCTED			1221 E MURDOCK	17		13		Layne Christensen Co.	1040308063
66651	Sedgwick	27 S	1 E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	24		15		Layne Christensen Co.	1040308071
66656	Sedgwick	27 S	1 E	16	NENWSW	-97.3318686	37.6998795	From PLSS	EBY	Dewatering	23-Jan-87	CONSTRUCTED		38432	900 NORTH ST FRANCIS WICHITA KS	36		16	300	Layne Christensen Co.	1040308081
66660	Sedgwick	27 S	1 E	16	NENESW	-97.3272944	37.6998961	From PLSS	EBY CONST CO	Dewatering	20-Feb-87	CONSTRUCTED		38432	ST FRANCIS & EMPORIA WICHITA, KANSAS	40		15		Harp Well & Pump Service, Inc.	1040308089
66665	Sedgwick	27 S	1 E	16	SENWSE	-97.3227081	37.6980929	From PLSS	GRAEBNER	Domestic	9-Mar-89	unknown			9314 S PATTIE WICHITA KS	40		9		Harp Well & Pump Service, Inc.	1044006451
66674	Sedgwick	27 S	1 E	16	NESESE	-97.3181199	37.6962868	From PLSS	WICHITA WIRE IN	Monitoring well/observation/piezometer	22-Mar-90	CONSTRUCTED			630 N PENNSYLVANIA WICHITA KS	27		15		Harp Well & Pump Service, Inc.	1040308112
66616	Sedgwick	27 S	1 E	16	NWNENE	-97.3204832	37.7072025	From PLSS	STUCKY	Lawn and Garden - domestic only	29-Apr-94	PLUGGED			1245 N RIVER BLDG	35	1300	17		Bearden Pump & Well Service	1044006454
66620	Sedgwick	27 S	1 E	16	NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	19-Aug-93	CONSTRUCTED				18		14		Layne Christensen Co.	1040307740
103003	Sedgwick	27 S	1 E	16	NWNENW	-97.3296242	37.707158	From PLSS	GLIDEWELL	Lawn and Garden - domestic only	7-Oct-95	PLUGGED			1251 N EMPORIA WICHITA KS 67214	18		12			1044006410
97160	Sedgwick	27 S	1 E	16	NWNENW	-97.3296242	37.707158	From PLSS	CARGILL INC	Industrial	30-Jan-95	PLUGGED			INSIDE EXISTING BUILDING	40		13		Layne Western	1044006414
95775	Sedgwick	27 S	1 E	16	NWNWSW	-97.3341557	37.6998713	From PLSS	TOWN & COUNTRY	Monitoring well/observation/piezometer	18-Nov-94	CONSTRUCTED			803 NORTH BROADWAY WICHITA KS	21.5	1301.45	14.95		Terracon Consultants, Inc.	1040360369
104701	Sedgwick	27 S	1 E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Industrial	21-Dec-95	PLUGGED			1221 MURDOCK WICHITA KS	21		13		MIKON Corporation	1044006449
310544	Sedgwick	27 S	1 E	16	C N2	-97.3261793	37.7044468	From PLSS	City of Wichita	Dewatering	31-Jan-00	PLUGGED		990255	11th & Washington	40		15		Harp Well & Pump Service, Inc.	1040412552
302528	Sedgwick	27 S	1 E	16	NW NW NE	-97.3250537	37.7071803	From PLSS	City of Wichita	Dewatering	8-Jan-99	CONSTRUCTED		990003	13th N. and Ohio in Wichita, Kansas	40		16		Harp Well & Pump Service, Inc.	1040398977
314417	Sedgwick	27 S	1 E	16	SW NW NW	-97.3341849	37.7053196	From PLSS	Ochsner Eye Clinic	Air Conditioning	21-Jul-00	CONSTRUCTED			1100 N Topeka	42		15		Harp Well & Pump Service, Inc.	1040420453
317152	Sedgwick	27 S	1 E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil	(unstated)/abandoned	22-Nov-00	PLUGGED			1055 N Mosley	30				GeoCore, Inc.	1044006381
317155	Sedgwick	27 S	1 E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil	Monitoring well/observation/piezometer	20-Nov-00	PLUGGED			1055 N Mosley	29		15		GeoCore, Inc.	1044006382
317158	Sedgwick	27 S	1 E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil	Recovery/Soil Vapor Extraction/Soil Vent	21-Nov-00	PLUGGED	RW-1		190' SW of the SW corner of 10th & Mosley	40		15		GeoCore, Inc.	1044006374
319019	Sedgwick	27 S	1 E	16	NE NE NE	-97.318198	37.7072137	From PLSS	City of Wichita	Monitoring well/observation/piezometer	16-Jan-01	CONSTRUCTED	NMW-13S		6' S of 13th St N, 217' W of Pennsylvania	19.7				Environmental Priority Service, Inc.	1040423354
319023	Sedgwick	27 S	1 E	16	SW NE NE	-97.3204707	37.7053821	From PLSS	City of Wichita	Monitoring well/observation/piezometer	9-Jan-01	CONSTRUCTED	NMW-32S		10' N of 11th St N, 139' W of Cleveland	20				Environmental Priority Service, Inc.	1040423362
319027	Sedgwick	27 S	1 E	16	SE NW NW	-97.3318992	37.70533	From PLSS	City of Wichita	Monitoring well/observation/piezometer	9-Jan-01	CONSTRUCTED	NMW-35D		3' N of 11th St N, 11' E of Emporia	39.8				Environmental Priority Service, Inc.	1040423369
319030	Sedgwick	27 S	1 E	16	SE NE SE	-97.3181329	37.698108	From PLSS	City of Wichita	Monitoring well/observation/piezometer	23-Jan-01	CONSTRUCTED	NMW-27S		134' N of Murdock, 1' W of Hydraulic	25.1				Environmental Priority Service, Inc.	1040423375
344492	Sedgwick	27 S	1 E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Company, Inc.	Monitoring well/observation/piezometer	29-Dec-03	CONSTRUCTED	MW 2R		1055 N Mosley, Wichita	19	1302.62	13.16		GeoCore, Inc.	1040467872
346022	Sedgwick	27 S	1 E	16	NE SE	-97.3192831	37.6990146	From PLSS	City of Wichita	Monitoring well/observation/piezometer	17-Feb-04	CONSTRUCTED	NMW 50S		25' W of C line of Mathewson, 10' N of 9th St, Wichita	19.5		14.7		Environmental Priority Service, Inc.	1040463477
349099	Sedgwick	27 S	1 E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	28-May-04	CONSTRUCTED	MW 5		1649 E 13th St, Wichita	20		13.68		AAA Drilling and Testing	1040473983
352584	Sedgwick	27 S	1 E	16	NW NE NE	-97.3204832	37.7072025	From PLSS	City of Wichita	Monitoring well/observation/piezometer	14-Jun-04	CONSTRUCTED	NWL 29S		260' E of Mosley St, 10' N of 12th St N	20		12.4		Environmental Priority Service, Inc.	1040472526
349096	Sedgwick	27 S	1 E	16	NE NE NE	-97.318198	37.7072137	From PLSS	TPI	Monitoring well/observation/piezometer	28-May-04	CONSTRUCTED	MW 2		1649 E 13th St, Wichita	20		13.8		AAA Drilling and Testing	1040471612
377323	Sedgwick	27 S	1 E	16	NE NE NE	-97.318198	37.7072137	From PLSS	City of Wichita	Monitoring well/observation/piezometer	25-Aug-05	CONSTRUCTED	MW 15		from 1649 E 13th St: 330' W on E 13th St, S row	20	1304.13	14.79		Max's Enterprises, Inc.	1040493392
364514	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Mid American Dairymen, Inc	Monitoring well/observation/piezometer	12-Apr-05	PLUGGED	MW 6		700 E Central, Wichita	20		14.15		Associated Environmental, Inc.	1044006397
400765	Sedgwick	27 S	1 E	16	SW NE NE	-97.3204707	37.7053821	From PLSS	McGown, Brian	Lawn and Garden - domestic only	28-Apr-07	PLUGGED			from 1329 E Kemper: 5' E, Wichita	22		13		JM Enterprises	1044006456
391642	Sedgwick	27 S	1 E	16	SW SW SW	-97.3341265	37.6944229	From PLSS	Kum and Go, LLC	Monitoring well/observation/piezometer	20-Sep-06	CONSTRUCTED	MW 4		707 N Waco, Wichita	19		13.26		GeoCore, Inc.	1040505852
401147	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 4 A		715 E 13th St, Wichita	40		14.8		Below Ground Surface, Inc.	1040516470
401150	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 5 B		715 E 13th St, Wichita	23		15.3		Below Ground Surface, Inc.	1040516684
401149	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 5 A		715 E 13th St, Wichita	41		15.3		Below Ground Surface, Inc.	1040516063
391638	Sedgwick	27 S	1 E	16	NE SW SE	-97.322696	37.6962732	From PLSS	Faber Trust Properties, LLC	Monitoring well/observation/piezometer	18-Sep-06	CONSTRUCTED	MW 5		505 N Webb Rd, Wichita	30		24.29		GeoCore, Inc.	1040509247
401145	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	17-Apr-07	CONSTRUCTED	MW 3 A		715 E 13th St, Wichita	42		14.8		Below Ground Surface, Inc.	1040516876
391636	Sedgwick	27 S	1 E	16	NE SW SE	-97.322696	37.6962732	From PLSS	Faber Trust Properties, LLC	Monitoring well/observation/piezometer	19-Sep-06	CONSTRUCTED	MW 3		505 N Webb Rd, Wichita	30		24.43		GeoCore, Inc.	1040508776
414054	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Injection well/air sparge (AS)/shallow	8-Jan-08	CONSTRUCTED	AS 5		700 E Central, Wichita	32		15.23		Quad State Services, Inc.	1040529853
404991	Sedgwick	27 S	1 E	16	SE NE NW	-97.3273278	37.7053509	From PLSS	Sheets, Morrie	Irrigation	7-Aug-07	PLUGGED			1140 N Mosley, Wichita	24		10		Harp Well & Pump Service, Inc.	1043952248
414060	Sedgwick	27 S	1 E	16	SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Recovery/Soil Vapor Extraction/Soil Vent	8-Jan-08	CONSTRUCTED	SVE 2		700 E Central, Wichita	15.5				Quad State Services, Inc.	1040530308
401144	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 2 B		715 E 13th St, Wichita	24.5		16.4		Below Ground Surface, Inc.	1040521317
401158	Sedgwick	27 S	1 E	16	NW NE NW	-97.3296242	37.707158	From PLSS	Cargill	Monitoring well/observation/piezometer	13-Apr-07	CONSTRUCTED	MW 7 B		715 E 13th St, Wichita	24		15.7		Below Ground Surface, Inc.	1040519468
415566	Sedgwick	27 S	1 E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	Crew Cut Landscape	Lawn and Garden - domestic only	17-Jun-08	CONSTRUCTED			720 E 10th St N, WIchita	40		15		Harp Well & Pump Service, Inc.	1040540170
66664	Sedgwick	27 S	1 E	16	SENESW	-97.3272832	37.6980778	From PLSS	HWS TECH INC	Industrial	22-Mar-89	PLUGGED			810 EAST MURDOCK WICHITA KS	34		13	20	HWS Consulting Group Inc.	1044006404
423518	Sedgwick	27 S	1 E	16	NE NW NE NW	-97.3290556	37.7076152	From PLSS	Cargill	Monitoring well/observation/piezometer	20-Mar-09	CONSTRUCTED			715 E 13th St, Wichita	40		16		Below Ground Surface, Inc.	1040547376
419675	Sedgwick	27 S	1 E	16	NW NW NW	-97.3341946	37.7071357	From PLSS	Grifick Reality	Lawn and Garden - domestic only	17-Sep-08	PLUGGED			1354 N Topeka, Wichita	23		8		Bearden Pump & Well Service	1044006416
439859	Sedgwick	27 S	1 E	16	SE SE NE	-97.318159	37.7017503	From PLSS	City of Wichita	Air Conditioning	8-Nov-10	PLUGGED			1007 N Cleveland Ave, Wichita	28		17		Harp Well & Pump Service, Inc.	1044006421
310813	Sedgwick	27 S	1 E	16	NC N2	-97.3261906	37.7062654	From PLSS	City of Wichita	Dewatering	26-Jan-00	PLUGGED		990255	11th & Washington	50		4		Harp Well & Pump Service, Inc.	1040412554
310543	Sedgwick	27 S	1 E	16	C N2	-97.3261793	37.7044468	From PLSS	City of Wichita	Dewatering	31-Jan-00	PLUGGED		990255	11th and Washington	40		15		Harp Well & Pump Service, Inc.	1040411381
66663	Sedgwick	27 S	1 E	16	NENESE	-97.3181459	37.6999291	From PLSS	WHITNEY	Lawn and Garden - domestic only	28-Aug-88	PLUGGED			937 N BUFFUM	30	1300	0		Bearden Pump & Well Service	1044006423
317156	Sedgwick	27 S	1 E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	21-Nov-00	PLUGGED			1055 N Mosley	29.5		15		GeoCore, Inc.	1044006390
98165	Sedgwick	27 S	1 E	16	NENWSW	-97.3318686	37.6998795	From PLSS	ST FRANCIS REGN	Lawn and Garden - domestic only	28-Mar-95	PLUGGED			911 N EMPORIA WICHITA KS	26		15		Harp Well & Pump Service, Inc.	1044006393
343456	Sedgwick	27 S	1 E	16	NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co	Monitoring well/observation/piezometer	14-Jul-03	PLUGGED	MW 16		1055 N Mosley, Wichita	30		13.5		GeoCore, Inc.	1044006389
447304	Sedgwick	27 S	1 E	16	NW NE NE	-97.3204832	37.7072025	From PLSS	Narramore, Mrs	Lawn and Garden - domestic only	26-Jul-11	CONSTRUCTED			1325 N River Blvd, Wichita	40		20		Bearden Pump & Well Service	1043983055
104881	Sedgwick	27 S	1 E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Monitoring well/observation/piezometer	20-Dec-95	CONSTRUCTED			1221 E MURDOCK WICHITA KS	24		13		MIKON Corporation	1040371433
104882	Sedgwick	27 S	1 E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Monitoring well/observation/piezometer	19-Dec-95	CONSTRUCTED			1221 E MURDOCK WICHITA KS	24		13		MIKON Corporation	1040371435
104887	Sedgwick	27 S	1 E	16	NESWSE	-97.322696	37.6962732	From PLSS	STEEL	Monitoring well/observation/piezometer	19-Dec-95	CONSTRUCTED			1221 E MURDOCK WICHITA KS	24		14		MIKON Corporation	1040371444
456328	Sedgwick	27 S	1 E	16	NW NW NW	-97.3341946	37.7071357	From PLSS	Paul, Mr.	Lawn and Garden - domestic only	29-May-12	CONSTRUCTED			1344 N Topeka, Wichita	40		19		Bearden Pump & Well Service	1044131417
95951	Sedgwick	27 S	1 E	16	SE SE NW	-97.3273055	37.7017143	From PLSS	House Oil Co.	Other	22-Nov-94	CONSTRUCTED			260' SOUTHWEST OF THE SOUTHWEST CORNER OF 10TH & MOSELY	40		15		GeoCore, Inc.	1040356660
66657	Sedgwick	27 S	1 E	16	NESENW	-97.3273167	37.7035326	From PLSS	KANSAS	Industrial	11-Mar-87	CONSTRUCTED			1110 N MOSLEY WICHITA KANSAS 67214	28		15		Curtis Redington Resources	1040308083
66658	Sedgwick	27 S	1 E	16	NENESW	-97.3272944	37.6998961	From PLSS	EBY CONST CO	Dewatering	19-Feb-87	CONSTRUCTED		38432	ST FRANCIS & EMPORIA WICHITA, KANSAS	36		15		Harp Well & Pump Service, Inc.	1040308085
66659	Sedgwick	27 S	1 E	16	NENESW	-97.3272944	37.6998961	From PLSS	EBY CONST INC	Dewatering	19-Feb-87	CONSTRUCTED		38432	WICHITA, KANSAS	36		15		Harp Well & Pump Service, Inc.	1040308087
66662	Sedgwick	27 S	1 E	16	NENESW	-97.3272944	37.6998961	From PLSS	EBY CONST CO	Dewatering	20-Feb-87	CONSTRUCTED		38432	ST FRANCIS & EMPORIA WICHITA, KANSAS	40		15		Harp Well & Pump Service, Inc.	1040308093
66667	Sedgwick	27 S	1 E	16	SENENW	-97.3273278	37.7053509	From PLSS	WESTINGHOUSE EL	Monitoring well/observation/piezometer	24-Nov-89	CONSTRUCTED			125 NORTHEAST OF FRONT DOOR OF WESCO, 1257 N MOSLEY, WICHITA, KS 52895084	22	1305	15		Terracon Consultants, Inc.	1040308100
66668	Sedgwick	27 S	1 E	16	SENENW	-97.3273278	37.7053509	From PLSS	WESTINGHOUSE EL	Monitoring well/observation/piezometer	24-Nov-89	CONSTRUCTED			185 SOUTHEAST OF FRONT DOOR OF WESCO, 1257 N MOSLEY, WICHITA, KS 52895084	22	1305	14		Terracon Consultants, Inc.	1040308102
66671	Sedgwick	27 S	1 E	16	SWNESE	-97.3204205	37.6981004	From PLSS	CHRISTOPHER STE	Other	17-Jun-89	CONSTRUCTED			150 E OF THE INTERSECTION OF ELM & CLEAVELAND & 150 N OF ELM ST	27		15		HWS Consulting Group Inc.	1040308108
66676	Sedgwick	27 S	1 E	16	SESWNW	-97.3318788	37.7016964	From PLSS	ST FRANCIS ENER	Dewatering	5-Jun-90	CONSTRUCTED		909011	929 NO ST FRANCIS WICHITA KS	40		17		Groundwater Technology	1040308381
66678	Sedgwick	27 S	1 E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFENS DAIRY	Monitoring well/observation/piezometer	16-Dec-90	CONSTRUCTED			CENTRAL & MEAD WICHITA, KS	21		16		Groundwater Technology	1040308385
66679	Sedgwick	27 S	1 E	16	SWSESW	-97.3295495	37.6944352	From PLSS	STEFFENS DAIRY	Monitoring well/observation/piezometer	16-Dec-90	CONSTRUCTED			CENTRAL & MEAD WICHITA, KS	24		16		Groundwater Technology	1040308387
66681	Sedgwick	27 S	1 E	16	SWSWSW	-97.3341265	37.6944229	From PLSS	CONTINENTAL BAK	Monitoring well/observation/piezometer	14-Sep-90	CONSTRUCTED			601 N. EMPORIA, WICHITA, KANSAS	22		22		HWS Consulting Group Inc.	1040308391
66683	Sedgwick	27 S	1 E	16	SWSWSW	-97.3341265	37.6944229	From PLSS	CONTINENTAL	Monitoring well/observation/piezometer	14-Sep-90	CONSTRUCTED			601 N. EMPORIA, WICHITA, KANSAS	22		12		Bearden Pump & Well Service	1040308395
66618	Sedgwick	27 S	1 E	16	SESESW	-97.327261	37.6944413	From PLSS	SHIVELY SR	Monitoring well/observation/piezometer	30-Sep-93	CONSTRUCTED			519 N. WASHINGTON	18		13		GSI Engineering, LLC	1040307736
66619	Sedgwick	27 S	1 E	16	NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	19-Aug-93	CONSTRUCTED				18		14		Layne Christensen Co.	1040307738

66621	Sedgwick	27 S	1 E	16 NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	19-Aug-93	CONSTRUCTED				18		14	Layne Christensen Co.	1040307742
66624	Sedgwick	27 S	1 E	16 SENESW	-97.3272832	37.6980778	From PLSS	City of Wichita	Monitoring well/observation/piezometer	2-Apr-93	CONSTRUCTED			NW CORNER MOSLEY & MURDOCK WICHITA KS	40		13	Groundwater Technology	1040307748
66625	Sedgwick	27 S	1 E	16 SENESW	-97.3272832	37.6980778	From PLSS	City of Wichita	Monitoring well/observation/piezometer	2-Apr-93	CONSTRUCTED			NW CORNER MOSLEY & MURDOCK WICHITA KS	20		13	Groundwater Technology	1040307750
66637	Sedgwick	27 S	1 E	16 SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	24		15	Layne Christensen Co.	1040308044
66639	Sedgwick	27 S	1 E	16 SWSESW	-97.3295495	37.6944352	From PLSS	STEFFAN DAIRY	Monitoring well/observation/piezometer	22-Jan-93	CONSTRUCTED			700 E CENTRAL	23		15	Layne Christensen Co.	1040308048
66641	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308052
66642	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308054
66644	Sedgwick	27 S	1 E	16 NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 N. MOSLEY	29		15	Layne Christensen Co.	1040308058
66648	Sedgwick	27 S	1 E	16 NWSESE	-97.320408	37.69628	From PLSS	STEEL	Monitoring well/observation/piezometer	6-Nov-92	CONSTRUCTED			1221 E MURDOCK	19		13	Layne Christensen Co.	1040308065
66649	Sedgwick	27 S	1 E	16 NWSESE	-97.320408	37.69628	From PLSS	STEEL	Monitoring well/observation/piezometer	6-Nov-92	CONSTRUCTED			1221 E MURDOCK	22		13	Layne Christensen Co.	1040308067
66650	Sedgwick	27 S	1 E	16 NWSESE	-97.320408	37.69628	From PLSS	STEEL	Monitoring well/observation/piezometer	6-Nov-92	CONSTRUCTED			1221 E MURDOCK	19		13	Layne Christensen Co.	1040308069
66654	Sedgwick	27 S	1 E	16 SESWSE	-97.3226839	37.6944535	From PLSS		Air Conditioning	11-Jun-81	CONSTRUCTED				30		15	Harp Well & Pump Service, Inc.	1040308077
66685	Sedgwick	27 S	1 E	16 NWNENW	-97.3296242	37.707158	From PLSS	AFFILIATED PROP	Monitoring well/observation/piezometer	27-Sep-90	CONSTRUCTED			10TH & SANTA FE, NW CORNER, WICHITA, KS.	24		19	Professional Engineering Consultants, PA	1040308399
66688	Sedgwick	27 S	1 E	16 SWNWNW	-97.3341849	37.7053196	From PLSS	AFFILIATED PROP	Monitoring well/observation/piezometer	14-Jun-91	CONSTRUCTED			NW CORNER OF 10TH AND TOPEKA	41		17	Professional Engineering Consultants, PA	1040308405
66690	Sedgwick	27 S	1 E	16 NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	26-Feb-92	CONSTRUCTED			1055 N MOSLEY WICHITA, KANSAS	30		15	Layne Christensen Co.	1040308409
66692	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308413
66693	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308415
66694	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308417
66698	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	29		15	Layne Christensen Co.	1040308425
66699	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	29		15	Layne Christensen Co.	1040308427
66700	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	29		15		1040308429
66701	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308431
66629	Sedgwick	27 S	1 E	16 NWSENW	-97.3296028	37.7035229	From PLSS	HOUSE OIL CO	Monitoring well/observation/piezometer	19-Aug-93	CONSTRUCTED				33		0	Layne Christensen Co.	1040308028
66631	Sedgwick	27 S	1 E	16 SENENW	-97.3273278	37.7053509	From PLSS	City of Wichita	Monitoring well/observation/piezometer	2-Apr-93	CONSTRUCTED			1050 N MOSLEY, WICHITA KS	18		13	Groundwater Technology	1040308032
66632	Sedgwick	27 S	1 E	16 NWNESW	-97.3295815	37.6998878	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			918 N SANTA FE WICHITA KS	20		13	Groundwater Technology	1040308034
452973	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	23-Jul-11	CONSTRUCTED	MW 3	46862	Santa Fe and Murdock St, NW corner, Wichita	25	1302.21	15.49	GSI Engineering, LLC	1044080391
452975	Sedgwick	27 S	1 E	16 SW NE SW	-97.3295708	37.6980702	From PLSS	KDHE	Monitoring well/observation/piezometer	23-Jul-11	CONSTRUCTED	MW 5	46859	SW corner of St Francis and Murdock St, Wichita	25	1303.78	16.38	GSI Engineering, LLC	1044080393
450163	Sedgwick	27 S	1 E	16 NW SW NW	-97.3341752	37.7035035	From PLSS	McDonalds	Lawn and Garden - domestic only	21-Oct-11	CONSTRUCTED			1050 N Broadway, Wichita	40		10	30 Premier Pump and Well Service, Inc.	1044030454
452971	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	23-Jul-11	CONSTRUCTED	MW 1	46857	St Francis and Murdock St, NE corner, Wichita	25	1302.38	15.55	GSI Engineering, LLC	1044080408
452972	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	23-Jul-11	CONSTRUCTED	MW 2	46858	St Francis and Murdock St, SE corner, Wichita	25	1302.25	15.4	GSI Engineering, LLC	1044080410
97158	Sedgwick	27 S	1 E	16 NWNENW	-97.3296242	37.707158	From PLSS	CARGILL	Industrial	30-Jan-95	PLUGGED			NORTH OF EXISTING OFFICE BUILDING	43		15	Layne Western	1044006412
66695	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308419
66697	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	29		15	Layne Christensen Co.	1040308423
93437	Sedgwick	27 S	1 E	16 NENWNW	-97.3319094	37.7071468	From PLSS	LINDGREN	Lawn and Garden - domestic only	27-Jul-94	CONSTRUCTED			124 N RIVER BLVD.	38		18	Bearden Pump & Well Service	1040354630
66634	Sedgwick	27 S	1 E	16 NWNWSW	-97.3341557	37.6998713	From PLSS	City of Wichita	Monitoring well/observation/piezometer	26-Mar-93	CONSTRUCTED			9 TH & SSANTA FE, WICHITA KS	36		13	Groundwater Technology	1040308038
66643	Sedgwick	27 S	1 E	16 NW SE NW	-97.3296028	37.7035229	From PLSS	House Oil Co.	Monitoring well/observation/piezometer	26-Mar-92	CONSTRUCTED			1055 North Mosley, Wichita	30		15	Layne Christensen Co.	1040308056
66670	Sedgwick	27 S	1 E	16 SENENW	-97.3273278	37.7053509	From PLSS	WESTINGHOUSE EL	Monitoring well/observation/piezometer	22-Nov-89	CONSTRUCTED			170 S SE OF FRONT DOOR AT WESCO, 1257 N MOSLEY, WICHITA, KS	27	1305	14	Terracon Consultants, Inc.	1040308106
66626	Sedgwick	27 S	1 E	16 NWNWNE	-97.3250537	37.7071803	From PLSS	City of Wichita	Monitoring well/observation/piezometer	31-Mar-93	CONSTRUCTED			1001 E 13TH WICHITA KANSAS	33		0	Groundwater Technology	1040307752
458326	Sedgwick	27 S	1 E	16 SE SE NW	-97.3273055	37.7017143	GPS	Aerospace Controls/Teleflex	Monitoring well/observation/piezometer	8-Aug-12	CONSTRUCTED	MW 2		1050 N Mosley, Wichita, in alley	25			Environmental Priority Service, Inc.	1044155561
458327	Sedgwick	27 S	1 E	16 SE SE NW	-97.3273055	37.7017143	GPS	Aerospace Controls/Teleflex	Monitoring well/observation/piezometer	8-Aug-12	CONSTRUCTED	MW 1		1050 N Mosley, Wichita, in alley	25			Environmental Priority Service, Inc.	1044155563
458275	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	25-Jul-12	PLUGGED	MW 1	46857	SE corner of St Francis and Murdock St, Wichita	23.13		16.2	GSI Engineering, LLC	1044080408
458276	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	25-Jul-12	PLUGGED	MW 2	46858	SE corner of St Francis and Murdock St, Wichita	22.88		15.95	GSI Engineering, LLC	1044080410
458277	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	25-Jul-12	PLUGGED	MW 3	46862	SE corner of St Francis and Murdock St, Wichita	24.72		15.32	GSI Engineering, LLC	1044080391
458278	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	25-Jul-12	PLUGGED	MW 4	46861	SE corner of St Francis and Murdock St, Wichita	21.74		15.59	GSI Engineering, LLC	1044080412
458279	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	25-Jul-12	PLUGGED	MW 5	46859	SE corner of St Francis and Murdock St, Wichita	24.23		17.94	GSI Engineering, LLC	1044080393
452974	Sedgwick	27 S	1 E	16 SE NW SW	-97.3318584	37.6980627	From PLSS	KDHE	Monitoring well/observation/piezometer	23-Jul-11	CONSTRUCTED	MW 4	46861	N of Murdock between St Francis and Santa Fe St, Wichita	25	1302.42	15.48	GSI Engineering, LLC	1044080412
471774	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	AS 2		700 E Central, Wichita	31		17	SCS Aquaterra	1040532740
471775	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	AS 4		700 E Central, Wichita	31		17	SCS Aquaterra	1040531314
471776	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	AS 5		700 E Central, Wichita	31		17	SCS Aquaterra	1040529853
471777	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	AS 6		700 E Central, Wichita	31		17	SCS Aquaterra	1040532742
471778	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	AS 7		700 E Central, Wichita	31		17	SCS Aquaterra	1040533184
471779	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	SVE 1		700 E Central, Wichita	15.5			SCS Aquaterra	1040529857
471780	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	SVE 2		700 E Central, Wichita	15.5			SCS Aquaterra	1040530308
471773	Sedgwick	27 S	1 E	16 SW SE SW	-97.3295495	37.6944352	From PLSS	Steffen Dairy	Monitoring well/observation/piezometer	31-Oct-13	PLUGGED	AS 1		700 E Central, Wichita	31		17	SCS Aquaterra	1040530306