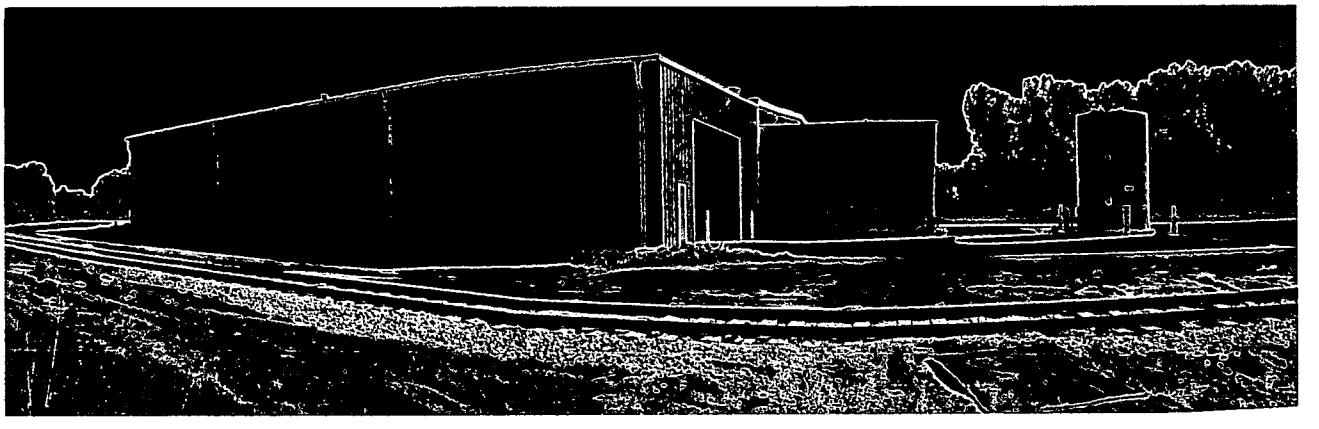
CON 12-15
Doc # 27818

2013 Monitoring

Keim Trucking
Fort Dodge, Iowa



prepared by

ERS
environmental consulting

Environmental Resource Services, Inc.
Ames, Iowa

ERS
environmental consulting

Environmental Resource Services, Inc.
519 Lynn Avenue – Ames, IA 50014

515.231.2288
hardyers@hotmail.com

October 14, 2013

Ed Bean, General Manager
Keim T.S., Inc.
1314 South 332nd Street
Fort Dodge, IA 50501

Re: 2013 monitoring – Keim, Fort Dodge
ERS 22065

Dear Mr. Bean:

Attached are the results of the groundwater monitoring for 2013, as required by the IDNR, for the above-referenced site. Sampling locations, contaminant levels, and groundwater flow are shown on a 2011 aerial photograph of the area. Analytical results from Keystone Laboratories, Newton, Iowa, follow.

MW2 was the only well sampled indicating contaminant levels above a DNR action level. That well had 16 ppb benzene and 6,550,000 ppb TEH as waste oil. For the first time since sampling began at this site, there was no detection of TEH diesel fuel in MW3. That laboratory result was somewhat surprising, as there was diesel odor in the sample. The only other analyte shown in the 2013 samples was 16 ppb xylenes in MW3.

The 2013 water levels show significant drop in elevations. Following heavy rains in the spring, the region has experienced widespread drought conditions. These fluctuations may be affecting the contamination shown in the samples.

We have provided the IDNR copies of this report. IDNR will outline any additional activities if necessary.

Please contact me if there are any questions regarding the ongoing sampling at this site, or if there is any additional information I can provide to assist you in this matter.

Very truly yours,

Steven B. Hardy

attchs: sample locations
TEH-Diesel levels
groundwater flow
analytical reports

cc: Matt Culp, IDNR Contaminated Sites
Cindy Garza, IDNR Field Office #2

TEH diesel was detected, above IDNR target levels, in only MW2. Levels in ug/l are shown at MW2 where diesel was detected. An approximate plume encompasses sites above IDNR target level.

N

1 in ~ 120 ft

TEH DIESEL CONTAMINATION - 2013 **Keim, T.S.**
1236 S. 32nd St., Fort Dodge

ENVIRONMENTAL RESOURCE SERVICES – Ames, Iowa 515.231.2288 ersgeo@msn.com

General direction of groundwater flow direction is shown based on water levels measured 9/26/13.

N

1 in ~ 120 ft

GROUNDWATER FLOW DIRECTION 09/26/12	Keim, T.S. 1236 S. 32nd St., Fort Dodge
ENVIRONMENTAL RESOURCE SERVICES – Ames, Iowa 515.231.2288 ersgeo@msn.com	

Keystone LABORATORIES, INC.

MEMBER ACIL

ANALYTICAL REPORT

October 11, 2013

Work Order: 1I31723

Report To	Work Order Information
Steve Hardy	Date Received: 09/27/2013 9:55AM
Environmental Resource Services	Collector:
519 Lynne Ave	Phone: (515) 231-2288
Ames, IA 50014-7319	PO Number: 22065

Project : UST

Project Number: KEIM Trucking

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1I31723-01 22065-2 (w)				Matrix:Water	Collected: 09/26/13 15:30		
Methyl-t-butyl Ether (MTBE)	**8 ug/L**	**1**	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Benzene	**16 ug/L**	**1**	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Toluene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Ethylbenzene	**4 ug/L**	**1**	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Xylenes, total	**83 ug/L**	**2**	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Di-iso-Propyl Ether (DIPE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
tert-Amyl Methyl Ether (TAME)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
tert-Butyl Alcohol (TBA)	<50 ug/L	50	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 9:19	
Surrogate: 4-Bromofluorobenzene	*103 %*			*76-131*	TKD	10/08/13 9:19	
TEH, as gasoline	<137 mg/L	137	1WJ0182	Iowa OA-2	CAK	10/10/13 10:52	
TEH, as #2 diesel fuel	**6550 mg/L**	**137**	1WJ0182	Iowa OA-2	CAK	10/10/13 10:52	
TEH, as waste oil	<137 mg/L	137	1WJ0182	Iowa OA-2	CAK	10/10/13 10:52	
Total Extractable Hydrocarbons	**6550 mg/L**	**137**	1WJ0182	Iowa OA-2	CAK	10/10/13 10:52	
Surrogate: Pentacosane	*%*			*50-151*	CAK	10/10/13 10:52	S-01
1I31723-02 22065-3 (w)				Matrix:Water	Collected: 09/26/13 15:40		
Methyl-t-butyl Ether (MTBE)	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Benzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Toluene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Ethylbenzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Xylenes, total	**16 ug/L**	**2**	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Di-iso-Propyl Ether (DIPE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
tert-Amyl Methyl Ether (TAME)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
tert-Butyl Alcohol (TBA)	<50 ug/L	50	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 8:41	
Surrogate: 4-Bromofluorobenzene	*108 %*			*76-131*	TKD	10/08/13 8:41	

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Environmental Resource Services
519 Lynne Ave
Ames, IA 50014-7319

Work Order: 1I31723

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1I31723-02 22065-3 (w)				Matrix:Water	Collected: 09/26/13 15:40		
TEH, as gasoline	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 19:18	
TEH, as #2 diesel fuel	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 19:18	
TEH, as waste oil	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 19:18	
Total Extractable Hydrocarbons	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 19:18	
Surrogate: Pentacosane	*89.7 %*			*50-151*	CAK	10/07/13 19:18	
1I31723-03 22065-4 (w)				Matrix:Water	Collected: 09/26/13 15:50		
Methyl-t-butyl Ether (MTBE)	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Benzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Toluene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Ethylbenzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Xylenes, total	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Di-iso-Propyl Ether (DIPE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
tert-Amyl Methyl Ether (TAME)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
tert-Butyl Alcohol (TBA)	<50 ug/L	50	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 2:33	
Surrogate: 4-Bromofluorobenzene	*124 %*			*76-131*	TKD	10/08/13 2:33	
TEH, as gasoline	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:07	
TEH, as #2 diesel fuel	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:07	
TEH, as waste oil	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:07	
Total Extractable Hydrocarbons	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:07	
Surrogate: Pentacosane	*92.0 %*			*50-151*	CAK	10/07/13 20:07	
1I31723-04 22065-5 (w)				Matrix:Water	Collected: 09/26/13 16:00		
Methyl-t-butyl Ether (MTBE)	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Benzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Toluene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Ethylbenzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Xylenes, total	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Di-iso-Propyl Ether (DIPE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
tert-Amyl Methyl Ether (TAME)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
tert-Butyl Alcohol (TBA)	<50 ug/L	50	1WJ0252	OA-1 (GC/MS)	TKD	10/08/13 3:10	
Surrogate: 4-Bromofluorobenzene	*124 %*			*76-131*	TKD	10/08/13 3:10	
TEH, as gasoline	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:56	
TEH, as #2 diesel fuel	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:56	
TEH, as waste oil	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:56	
Total Extractable Hydrocarbons	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 20:56	
Surrogate: Pentacosane	*91.8 %*			*50-151*	CAK	10/07/13 20:56	

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Environmental Resource Services
519 Lynne Ave
Ames, IA 50014-7319

Work Order: 1I31723

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1I31723-04 22065-5 (w)				Matrix:Water		Collected: 09/26/13 16:00	
1I31723-05 22065-6 (w)				Matrix:Water		Collected: 09/26/13 16:10	
Methyl-t-butyl Ether (MTBE)	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Benzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Toluene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Ethylbenzene	<1 ug/L	1	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Xylenes, total	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Di-iso-Propyl Ether (DIPE)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
tert-Amyl Methyl Ether (TAME)	<2 ug/L	2	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
tert-Butyl Alcohol (TBA)	<50 ug/L	50	1WJ0252	OA-1 (GC/MS)	TKD	10/07/13 21:01	
Surrogate: 4-Bromofluorobenzene	*119 %*			*76-131*	TKD	10/07/13 21:01	
TEH, as gasoline	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 21:45	
TEH, as #2 diesel fuel	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 21:45	
TEH, as waste oil	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 21:45	
Total Extractable Hydrocarbons	<0.1 mg/L	0.1	1WJ0182	Iowa OA-2	CAK	10/07/13 21:45	
Surrogate: Pentacosane	*96.8 %*			*50-151*	CAK	10/07/13 21:45	

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Determination of Volatile Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1WJ0252 - EPA 5030B										
Blank (1WJ0252-BLK1)				Prepared & Analyzed: 10/07/13						
Surrogate: 4-Bromofluorobenzene	*55.9*		*ug/L*	*50.0000*		*112*	*76-131*			
Methyl-t-butyl Ether (MTBE)	ND	1	"							
Benzene	ND	1	"							
Toluene	ND	1	"							
Ethylbenzene	ND	1	"							
Xylenes, total	ND	2	"							
Ethyl-tert-Butyl Ether (ETBE)	ND	2	"							
Di-iso-Propyl Ether (DIPE)	ND	2	"							
tert-Amyl Methyl Ether (TAME)	ND	2	"							
tert-Butyl Alcohol (TBA)	ND	50	"							
LCS (1WJ0252-BS1)				Prepared & Analyzed: 10/07/13						
Surrogate: 4-Bromofluorobenzene	*52.9*		*ug/L*	*50.0000*		*106*	*76-131*			
Methyl-t-butyl Ether (MTBE)	106.0	1	"	105.600		100	69-114			
Benzene	49.7	1	"	50.0000		99.3	82-126			
Toluene	51.9	1	"	50.0000		104	85-117			
Ethylbenzene	53.5	1	"	50.0000		107	83-125			
Xylenes, total	154.6	2	"	150.000		103	83-119			
Ethyl-tert-Butyl Ether (ETBE)	106.7	2	"	103.200		103	81-116			
Di-iso-Propyl Ether (DIPE)	101.2	2	"	105.200		96.2	73-136			
tert-Amyl Methyl Ether (TAME)	98.7	2	"	107.600		91.7	75-123			
tert-Butyl Alcohol (TBA)	1665	50	"	2008.40		82.9	37-153			
Matrix Spike (1WJ0252-MS1)	**Source: 1J30071-04**			Prepared & Analyzed: 10/07/13						
Surrogate: 4-Bromofluorobenzene	*51.0*		*ug/L*	*50.0000*		*102*	*76-131*			
Methyl-t-butyl Ether (MTBE)	1033	10	"	1056.00	ND	97.8	69-126			
Benzene	525.4	10	"	500.000	3.7	104	82-126			
Toluene	524.5	10	"	500.000	3.4	104	86-122			
Ethylbenzene	529.8	10	"	500.000	11.6	104	84-135			
Xylenes, total	1551	20	"	1500.00	48.8	100	81-125			
Ethyl-tert-Butyl Ether (ETBE)	1084	20	"	1032.00	ND	105	79-118			
Di-iso-Propyl Ether (DIPE)	1066	20	"	1052.00	ND	101	77-133			
tert-Amyl Methyl Ether (TAME)	1091	20	"	1076.00	ND	101	82-129			
tert-Butyl Alcohol (TBA)	17870	500	"	20084.0	ND	89.0	27-165			

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Determination of Volatile Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1WJ0252 - EPA 5030B										
Matrix Spike Dup (1WJ0252-MSD1)	**Source: 1J30071-04**			Prepared & Analyzed: 10/07/13						
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50.0000*		*103*	*76-131*			
Methyl-t-butyl Ether (MTBE)	1009	10	"	1056.00	ND	95.5	69-126	2.34	11	
Benzene	529.0	10	"	500.000	3.7	105	82-126	0.683	10	
Toluene	536.6	10	"	500.000	3.4	107	86-122	2.28	10	
Ethylbenzene	549.8	10	"	500.000	11.6	108	84-135	3.71	10	
Xylenes, total	1580	20	"	1500.00	48.8	102	81-125	1.81	10	
Ethyl-tert-Butyl Ether (ETBE)	1066	20	"	1032.00	ND	103	79-118	1.66	10	
Di-iso-Propyl Ether (DIPE)	1052	20	"	1052.00	ND	100	77-133	1.27	10	
tert-Amyl Methyl Ether (TAME)	1093	20	"	1076.00	ND	102	82-129	0.156	10	
tert-Butyl Alcohol (TBA)	17260	500	"	20084.0	ND	86.0	27-165	3.43	25	

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Environmental Resource Services
519 Lynne Ave
Ames, IA 50014-7319

Work Order: 1I31723

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1WJ0182 - 3510C OA-2 Sep Fnl										
Blank (1WJ0182-BLK1)				Prepared: 10/03/13 Analyzed: 10/04/13						
Surrogate: Pentacosane	*0.0484*		*mg/L*	*0.0496000*		*97.5*	*50-151*			
TEH, as gasoline	ND	0.1	"							
TEH, as #2 diesel fuel	ND	0.1	"							
TEH, as waste oil	ND	0.1	"							
Total Extractable Hydrocarbons	ND	0.1	"							
LCS (1WJ0182-BS1)				Prepared: 10/03/13 Analyzed: 10/04/13						
Surrogate: Pentacosane	*0.0530*		*mg/L*	*0.0496000*		*107*	*50-151*			
TEH, as #2 diesel fuel	5.64	0.1	"	7.53500		74.9	57-111			
LCS Dup (1WJ0182-BSD1)				Prepared: 10/03/13 Analyzed: 10/04/13						
Surrogate: Pentacosane	*0.0544*		*mg/L*	*0.0496000*		*110*	*50-151*			
TEH, as #2 diesel fuel	6.58	0.1	"	7.53500		87.3	57-111	15.3	30	
Reference (1WJ0182-SRM1)				Prepared: 10/03/13 Analyzed: 10/04/13						
Surrogate: Pentacosane	*0.0520*		*mg/L*	*0.0496000*		*105*	*50-151*			
TEH, as #2 diesel fuel	6.84	0.1	"	7.53500		90.7	70-130			

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

Certified Analyses included in this Report

Method/Matrix	Analyte	Certifications
Iowa OA-2 in Water		
	Total Extractable Hydrocarbons	SIA1X
OA-1 (GC/MS) in Water		
	Methyl-t-butyl Ether (MTBE)	SIA1X
	Benzene	SIA1X
	Toluene	SIA1X
	Ethylbenzene	SIA1X
	Xylenes, total	SIA1X

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Environmental Resource Services
519 Lynne Ave
Ames, IA 50014-7319

Work Order: 1I31723

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2014
KS-NT	Kansas Department of Health and Environment	E-10287	10/30/2013
MO-KC	Missouri Department of Natural Resources	140	04/30/2014
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2014
SIA1X	Iowa Department of Natural Resources	95	02/01/2014

Notes and Definitions

S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager II

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CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☐ 600 E. 17th St. S. Newton, IA 50208 Phone: 641-792-8451 Fax: 641-792-7989

☐ 3012 Ansborough Ave. Waterloo, IA 50701 Phone: 319-235-4440 Fax: 319-235-2480 www.keystonelabs.com

☐ 1155 Adams, Suite 120 Kansas City, KS 66103 Phone: 913-321-7856 Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW	REPORT TO:	BILL TO:
SAMPLER: STEVE HARDY	NAME: STEVE HARDY	NAME:
SITE NAME: KEIM TRUCKING	COMPANY NAME: ERS	COMPANY NAME: ERS
ADDRESS:	ADDRESS: 519 LYNN AVE	ADDRESS:
CITY/ST/ZIP: FORT DODGE, IA	CITY/ST/ZIP: AMES, IA 50014	CITY/ST/ZIP:
PHONE:	PHONE: 515.231.2258	PHONE:
	FAX:	Keystone Quote No.: (If Applicable)

LAB USE ONLY
LABORATORY WORK ORDER NO: 1I31723
SAMPLE TEMPERATURE UPON RECEIPT: °C

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	OA-1 MTBE	OA-2							SAMPLE CONDITION COMMENTS	LABORATORY SAMPLE NUMBER
22065-2 (w)	9-26-13	1530	MW2	3	H2O	G	✓	✓								01
22065-3 (w)	↓	1540	MW3	↓	↓	↓	✓	✓								02
22065-4 (w)	↓	1550	MW4	↓	↓	↓	✓	✓								03
22065-5 (w)	↓	1600	MW5	↓	↓	↓	✓	✓								04
22065-6 (w)	↓	1610	MW6	↓	↓	↓	✓	✓								05

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
Steven B Hardy	Date 9-27-13 Time		Date Time	Turn-Around: ☒ Standard ☐ Rush ____ Contact Lab Prior to Submission
Relinquished by: (Signature)	Date Time	Received for Lab by: (Signature) [signature]	Date 9-27-13 Time 9:55	Remarks:

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

FORM: CCR 7-97