Jump, Christine

From: Michael Stephenson <mstephenson@cameron-cole.com>
Sent: Wednesday, September 24, 2014 3:43 PM
To: Jump, Christine
Cc: Akhter Hossain; SMITH, MARTIN L; mkamal@kdheks.gov; Brady Gerber; sklaus@geostatenvironmental.com
Subject: Underslab sample results for Builidng B, D and Process Area
Attachments: 60178486_frc_rev.pdf; Bld B Under Floor Sample Locations.pdf; Bld D Under Floor Sample Locations.pdf; PA Under Floor Sample Locations.pdf; Underslab Sample Table.pdf; 60178332 _frc_rev.pdf

Hello Chris,

Attached please find a table with analytical results from the underslab samples and figures depicting their locations. I have also included the lab reports if you are seeking additional information.

As shown in the Table, all results were below IAOs. As such, we plan to proceed with re-use of the concrete overlying the clean soils as originally proposed in the rinsate package submittals.

Please call me if you have any questions or concerns.

Thanks,

Mike Stephenson
Principal Scientist
Cameron-Cole, LLC
50 Hegenberger Loop
Oakland CA 94621
office - 510.777.1864
mobile - 510.773.9895
mstephenson@cameron-cole.com

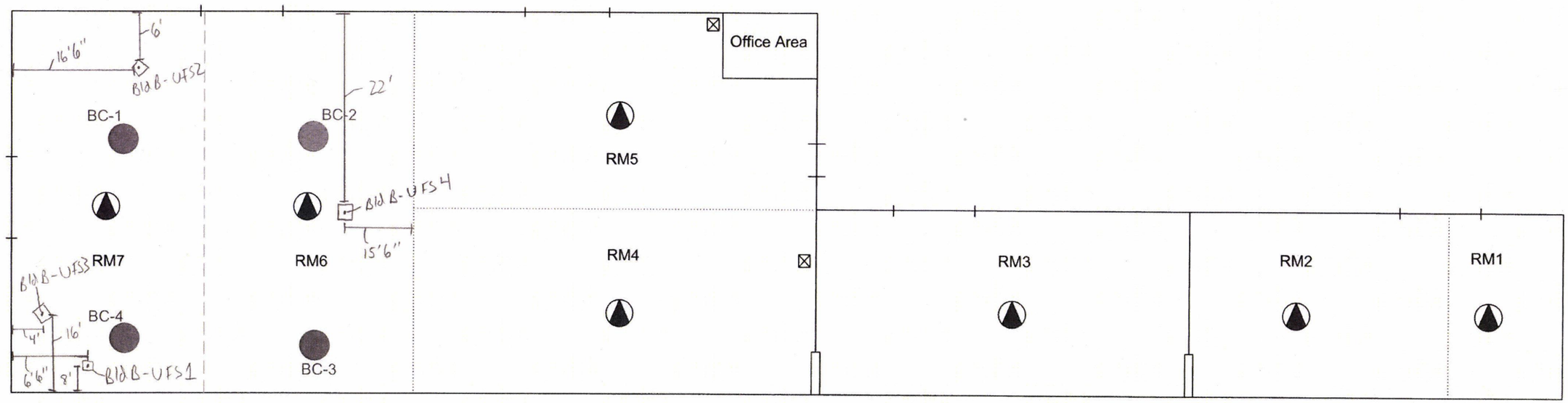
RCRA
534252

Clean Harbors Wichita
Soil Analytical Results for Detected Compounds in Underslab samples
September 2014

Sample ID	Chromium	Tetrachloro ethene	Trichloro ethene	1,1,1-Trichloro ethane	Acetone	2-Butanone (MEK)	Toluene	Xylene (Total)
	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
IAO-->	111	121	84.2	2800	51600	24200	51200	809000
Building B Samples								
BLD B-UFS1	23.1	23.3	12.0	6.6	28.6	<5.9	<3.0	<3.0
BLD B-UFS2	14.2	50.8	7.6	3.1	11.8	<5.5	<2.8	<2.8
BLD B-UFS3	14.7	8.3	3.6	<2.9	20.6	<5.8	<2.9	<2.9
BLD B - UFS 4	0.95	<2.8	<2.8	<2.8	<11.1	<5.5	<2.8	<2.8
Processing Area Samples								
PA-UFS 1	NA	<2.8	<2.8	<2.8	15.8	8.6	<2.8	<2.8
PA-UFS 2	NA	30.5	6.2	<2.7	12.1	<5.4	<2.7	<2.7
PA-UFS 3	NA	41.9	<3.0	4.0	14.2	<6.0	<3.0	<3.0
PA-UFS 4	NA	<2.7	<2.7	<2.7	<10.9	<5.4	<2.7	<2.7
Building D Samples								
BLD D - UFS1	NA	<2.5	<2.5	<2.5	<10.1	<5.1	<2.5	<2.5
BLD D - UFS2	NA	38.0	16.0	7.9	23.8	<7.3	<3.7	<3.7
BLD D - UFS3	NA	18.3	4.0	<2.8	<11.3	<5.6	<2.8	5.1
BLD D - UFS4	NA	<2.7	<2,7	<2.7	<10.6	<5.3	<2.7	<2.7
TRIP BLANK	NA	<5.0	<5.0	<5.0	<20.0	<10.0	<5.0	<5.0

Notes:
NA - Not Analyzed. Analyte is not a COC in area sampled
PQLs for all non-detect compounds were below IAOs

BUILDING B



LEGEND

- DIRECT PUSH SOIL SAMPLE LOCATION (OCT. 2013)
- DIRECT PUSH SOIL & GROUNDWATER SAMPLE LOCATION (OCT. 2013)
- SUMP LOCATION
- COMPOSITE SAMPLE

  The composite sample was collected from water that came in contact with the ceiling, sidewalls and floor.
- ROOM SEGMENT FOR SAMPLING PURPOSES
- SECONDARY CONTAINMENT STRUCTURE

0' 10' 20'

iSi

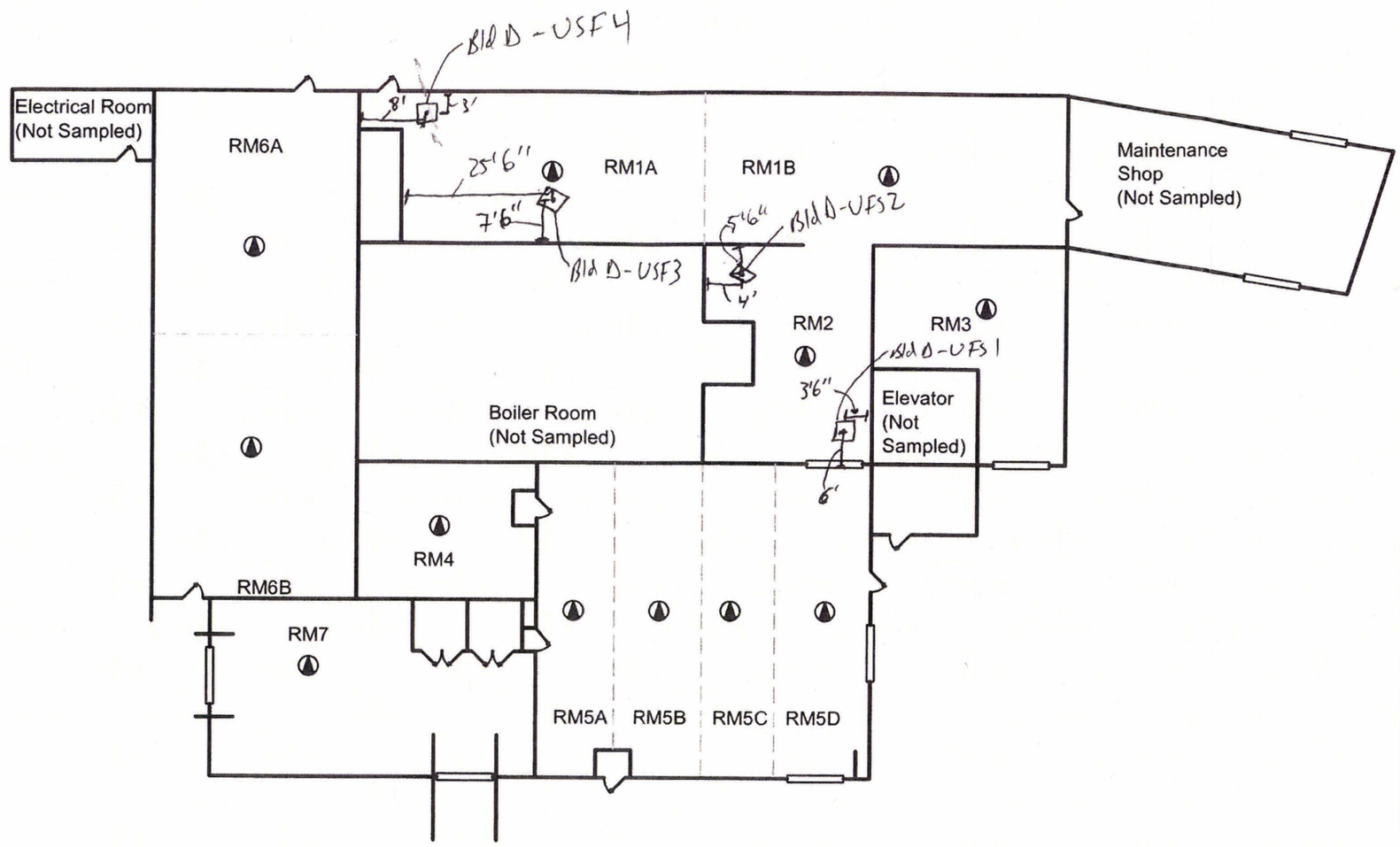
CLEAN HARBORS

PROJECT NAME
BUILDING B:
SAMPLE LOCATIONS

SHEET TITLE

B.GERBER	B.WEAST	S.KLAUS
PROJECT MGR.	DRAWN BY:	CHECKED BY:
8-25-2014	1401030	1 / 1
DATE	JOB NO.	SHEET/OF

BUILDING D



LEGEND

COMPOSITE SAMPLE

The composite sample was collected from water that came in contact with the ceiling, sidewalls and floor.

ROOM SEGMENT FOR SAMPLING PURPOSES

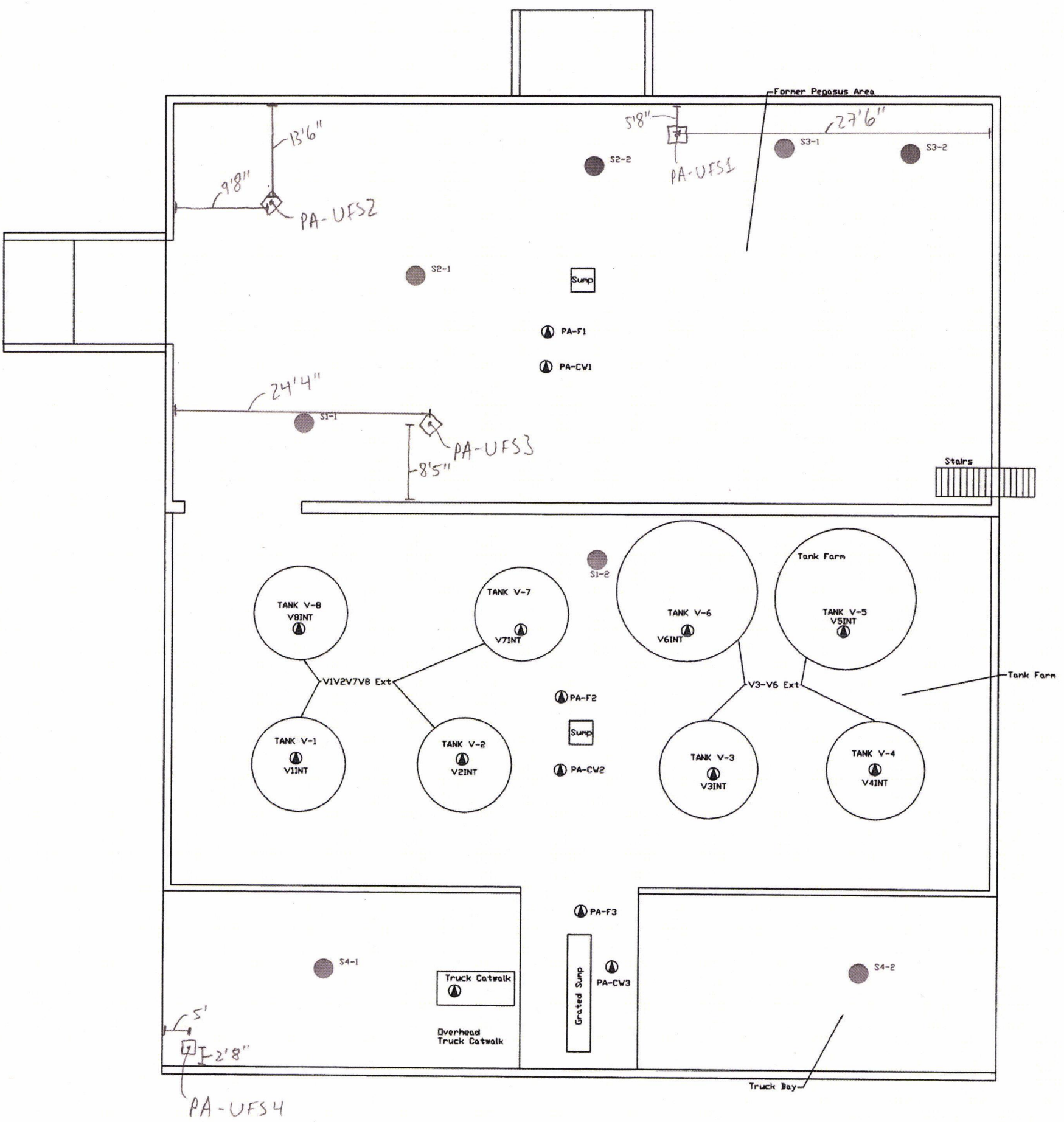
note - Dimensions are to sample location - not hole opening

0 15' 30'

CLEAN HARBORS

PROJECT NAME
BUILDING D:
SAMPLE LOCATIONS
SHEET TITLE

B.GERBER	B.WEAST	S.CINAR
PROJECT MGR.	DRAWN BY:	CHECKED BY:
8-12-2014	1401030	1 / 1
DATE	JOB NO.	SHEET/OF



LEGEND

- COMPOSITE SAMPLE
- DIRECT PUSH SOIL SAMPLE LOCATION (OCT. 2013)
- DIRECT PUSH SOIL & GROUNDWATER SAMPLE LOCATION (OCT. 2013)

Note:
Tanks are not to scale.
Multiple layers of concrete coating materials are evident across the concrete slab.

0' 5' 10'

CLEAN HARBORS KANSAS, LLC
WICHITA FACILITY
PROJECT NAME

SAMPLE LOCATIONS
SHEET TITLE

B.GERBER	B.WEAST	B.GERBER
PROJECT MGR.	DRAWN BY:	CHECKED BY
8-26-2014	1401030	1 / 1
DATE	JOB NO.	SHEET/OF

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

September 24, 2014

Brady Gerber
Integrated Solutions
215 S. Laura
Wichita, KS 67211

RE: Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Dear Brady Gerber:
Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Rev_140924. 1,4 Dioxane results added.

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

Sincerely,

Sherri Rosenstangle

Sherri Rosenstangle
sherri.rosenstangle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60178486001	**BLD D - UFS1**	Solid	09/19/14 14:10	09/20/14 08:15
60178486002	**BLD D - UFS2**	Solid	09/19/14 14:20	09/20/14 08:15
60178486003	**BLD D - UFS3**	Solid	09/19/14 14:45	09/20/14 08:15
60178486004	**BLD D - UFS4**	Solid	09/19/14 15:05	09/20/14 08:15
60178486005	**TRIP BLANK**	Solid	09/19/14 14:10	09/20/14 08:15

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Sample: BLD D - UFS1 **Lab ID: 60178486001** Collected: 09/19/14 14:10 Received: 09/20/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.0	1	09/23/14 12:21	09/23/14 13:45	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	27	%.	10-140	1	09/23/14 12:21	09/23/14 13:45		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	10.1	1		09/22/14 16:52	67-64-1	
Acrolein	ND	ug/kg	50.7	1		09/22/14 16:52	107-02-8	L2
Acrylonitrile	ND	ug/kg	50.7	1		09/22/14 16:52	107-13-1	
Benzene	ND	ug/kg	2.5	1		09/22/14 16:52	71-43-2	
Bromobenzene	ND	ug/kg	2.5	1		09/22/14 16:52	108-86-1	
Bromochloromethane	ND	ug/kg	2.5	1		09/22/14 16:52	74-97-5	
Bromodichloromethane	ND	ug/kg	2.5	1		09/22/14 16:52	75-27-4	
Bromoform	ND	ug/kg	2.5	1		09/22/14 16:52	75-25-2	
Bromomethane	ND	ug/kg	2.5	1		09/22/14 16:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.1	1		09/22/14 16:52	78-93-3	
n-Butylbenzene	ND	ug/kg	2.5	1		09/22/14 16:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.5	1		09/22/14 16:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.5	1		09/22/14 16:52	98-06-6	
Carbon disulfide	ND	ug/kg	2.5	1		09/22/14 16:52	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.5	1		09/22/14 16:52	56-23-5	
Chlorobenzene	ND	ug/kg	2.5	1		09/22/14 16:52	108-90-7	
Chloroethane	ND	ug/kg	2.5	1		09/22/14 16:52	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.5	1		09/22/14 16:52	110-75-8	
Chloroform	ND	ug/kg	2.5	1		09/22/14 16:52	67-66-3	
Chloromethane	ND	ug/kg	2.5	1		09/22/14 16:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.5	1		09/22/14 16:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.5	1		09/22/14 16:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		09/22/14 16:52	96-12-8	
Dibromochloromethane	ND	ug/kg	2.5	1		09/22/14 16:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.5	1		09/22/14 16:52	106-93-4	
Dibromomethane	ND	ug/kg	2.5	1		09/22/14 16:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.5	1		09/22/14 16:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.5	1		09/22/14 16:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.5	1		09/22/14 16:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.5	1		09/22/14 16:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.5	1		09/22/14 16:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.5	1		09/22/14 16:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.5	1		09/22/14 16:52	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.5	1		09/22/14 16:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.5	1		09/22/14 16:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.5	1		09/22/14 16:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.5	1		09/22/14 16:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.5	1		09/22/14 16:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.5	1		09/22/14 16:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.5	1		09/22/14 16:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.5	1		09/22/14 16:52	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Sample: BLD D - UFS2 **Lab ID: 60178486002** Collected: 09/19/14 14:20 Received: 09/20/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	8.4	1	09/23/14 12:21	09/23/14 14:04	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	31	%.	10-140	1	09/23/14 12:21	09/23/14 14:04		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**23.8**	ug/kg	14.6	1		09/22/14 17:08	67-64-1	
Acrolein	ND	ug/kg	73.2	1		09/22/14 17:08	107-02-8	L2
Acrylonitrile	ND	ug/kg	73.2	1		09/22/14 17:08	107-13-1	
Benzene	ND	ug/kg	3.7	1		09/22/14 17:08	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		09/22/14 17:08	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		09/22/14 17:08	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		09/22/14 17:08	75-27-4	
Bromoform	ND	ug/kg	3.7	1		09/22/14 17:08	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		09/22/14 17:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	7.3	1		09/22/14 17:08	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		09/22/14 17:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		09/22/14 17:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		09/22/14 17:08	98-06-6	
Carbon disulfide	ND	ug/kg	3.7	1		09/22/14 17:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		09/22/14 17:08	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		09/22/14 17:08	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		09/22/14 17:08	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.7	1		09/22/14 17:08	110-75-8	
Chloroform	ND	ug/kg	3.7	1		09/22/14 17:08	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		09/22/14 17:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		09/22/14 17:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		09/22/14 17:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.3	1		09/22/14 17:08	96-12-8	
Dibromochloromethane	ND	ug/kg	3.7	1		09/22/14 17:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		09/22/14 17:08	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		09/22/14 17:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		09/22/14 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		09/22/14 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		09/22/14 17:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		09/22/14 17:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		09/22/14 17:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		09/22/14 17:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.7	1		09/22/14 17:08	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.7	1		09/22/14 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		09/22/14 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		09/22/14 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		09/22/14 17:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		09/22/14 17:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		09/22/14 17:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		09/22/14 17:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		09/22/14 17:08	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Sample: BLD D - UFS3 **Lab ID: 60178486003** Collected: 09/19/14 14:45 Received: 09/20/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.0	1	09/23/14 12:21	09/23/14 14:23	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	29	%.	10-140	1	09/23/14 12:21	09/23/14 14:23		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	11.3	1		09/22/14 17:23	67-64-1	
Acrolein	ND	ug/kg	56.5	1		09/22/14 17:23	107-02-8	L2
Acrylonitrile	ND	ug/kg	56.5	1		09/22/14 17:23	107-13-1	
Benzene	ND	ug/kg	2.8	1		09/22/14 17:23	71-43-2	
Bromobenzene	ND	ug/kg	2.8	1		09/22/14 17:23	108-86-1	
Bromochloromethane	ND	ug/kg	2.8	1		09/22/14 17:23	74-97-5	
Bromodichloromethane	ND	ug/kg	2.8	1		09/22/14 17:23	75-27-4	
Bromoform	ND	ug/kg	2.8	1		09/22/14 17:23	75-25-2	
Bromomethane	ND	ug/kg	2.8	1		09/22/14 17:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.6	1		09/22/14 17:23	78-93-3	
n-Butylbenzene	ND	ug/kg	2.8	1		09/22/14 17:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.8	1		09/22/14 17:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.8	1		09/22/14 17:23	98-06-6	
Carbon disulfide	ND	ug/kg	2.8	1		09/22/14 17:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.8	1		09/22/14 17:23	56-23-5	
Chlorobenzene	ND	ug/kg	2.8	1		09/22/14 17:23	108-90-7	
Chloroethane	ND	ug/kg	2.8	1		09/22/14 17:23	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.8	1		09/22/14 17:23	110-75-8	
Chloroform	ND	ug/kg	2.8	1		09/22/14 17:23	67-66-3	
Chloromethane	ND	ug/kg	2.8	1		09/22/14 17:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.8	1		09/22/14 17:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.8	1		09/22/14 17:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.6	1		09/22/14 17:23	96-12-8	
Dibromochloromethane	ND	ug/kg	2.8	1		09/22/14 17:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.8	1		09/22/14 17:23	106-93-4	
Dibromomethane	ND	ug/kg	2.8	1		09/22/14 17:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.8	1		09/22/14 17:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.8	1		09/22/14 17:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.8	1		09/22/14 17:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.8	1		09/22/14 17:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.8	1		09/22/14 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.8	1		09/22/14 17:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.8	1		09/22/14 17:23	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.8	1		09/22/14 17:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/22/14 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/22/14 17:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.8	1		09/22/14 17:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.8	1		09/22/14 17:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.8	1		09/22/14 17:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.8	1		09/22/14 17:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.8	1		09/22/14 17:23	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Sample: BLD D - UFS4 **Lab ID: 60178486004** Collected: 09/19/14 15:05 Received: 09/20/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	6.7	1	09/23/14 12:21	09/23/14 14:41	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	34	%.	10-140	1	09/23/14 12:21	09/23/14 14:41		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	10.6	1		09/22/14 17:39	67-64-1	
Acrolein	ND	ug/kg	53.1	1		09/22/14 17:39	107-02-8	L2
Acrylonitrile	ND	ug/kg	53.1	1		09/22/14 17:39	107-13-1	
Benzene	ND	ug/kg	2.7	1		09/22/14 17:39	71-43-2	
Bromobenzene	ND	ug/kg	2.7	1		09/22/14 17:39	108-86-1	
Bromochloromethane	ND	ug/kg	2.7	1		09/22/14 17:39	74-97-5	
Bromodichloromethane	ND	ug/kg	2.7	1		09/22/14 17:39	75-27-4	
Bromoform	ND	ug/kg	2.7	1		09/22/14 17:39	75-25-2	
Bromomethane	ND	ug/kg	2.7	1		09/22/14 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.3	1		09/22/14 17:39	78-93-3	
n-Butylbenzene	ND	ug/kg	2.7	1		09/22/14 17:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.7	1		09/22/14 17:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.7	1		09/22/14 17:39	98-06-6	
Carbon disulfide	ND	ug/kg	2.7	1		09/22/14 17:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.7	1		09/22/14 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	2.7	1		09/22/14 17:39	108-90-7	
Chloroethane	ND	ug/kg	2.7	1		09/22/14 17:39	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.7	1		09/22/14 17:39	110-75-8	
Chloroform	ND	ug/kg	2.7	1		09/22/14 17:39	67-66-3	
Chloromethane	ND	ug/kg	2.7	1		09/22/14 17:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.7	1		09/22/14 17:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.7	1		09/22/14 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		09/22/14 17:39	96-12-8	
Dibromochloromethane	ND	ug/kg	2.7	1		09/22/14 17:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.7	1		09/22/14 17:39	106-93-4	
Dibromomethane	ND	ug/kg	2.7	1		09/22/14 17:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.7	1		09/22/14 17:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.7	1		09/22/14 17:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.7	1		09/22/14 17:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.7	1		09/22/14 17:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.7	1		09/22/14 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.7	1		09/22/14 17:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.7	1		09/22/14 17:39	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.7	1		09/22/14 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.7	1		09/22/14 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.7	1		09/22/14 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.7	1		09/22/14 17:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.7	1		09/22/14 17:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.7	1		09/22/14 17:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.7	1		09/22/14 17:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.7	1		09/22/14 17:39	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

Sample: TRIP BLANK **Lab ID: 60178486005** Collected: 09/19/14 14:10 Received: 09/20/14 08:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.0	1		09/22/14 16:37	67-64-1	
Acrolein	ND	ug/kg	100	1		09/22/14 16:37	107-02-8	L2
Acrylonitrile	ND	ug/kg	100	1		09/22/14 16:37	107-13-1	
Benzene	ND	ug/kg	5.0	1		09/22/14 16:37	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		09/22/14 16:37	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		09/22/14 16:37	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		09/22/14 16:37	75-27-4	
Bromoform	ND	ug/kg	5.0	1		09/22/14 16:37	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		09/22/14 16:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	1		09/22/14 16:37	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		09/22/14 16:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		09/22/14 16:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		09/22/14 16:37	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		09/22/14 16:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		09/22/14 16:37	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		09/22/14 16:37	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		09/22/14 16:37	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	5.0	1		09/22/14 16:37	110-75-8	
Chloroform	ND	ug/kg	5.0	1		09/22/14 16:37	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		09/22/14 16:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		09/22/14 16:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		09/22/14 16:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.0	1		09/22/14 16:37	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		09/22/14 16:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		09/22/14 16:37	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		09/22/14 16:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		09/22/14 16:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		09/22/14 16:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		09/22/14 16:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		09/22/14 16:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		09/22/14 16:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		09/22/14 16:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.0	1		09/22/14 16:37	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		09/22/14 16:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/22/14 16:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/22/14 16:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		09/22/14 16:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		09/22/14 16:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		09/22/14 16:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		09/22/14 16:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/22/14 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/22/14 16:37	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		09/22/14 16:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		09/22/14 16:37	87-68-3	
2-Hexanone	ND	ug/kg	20.0	1		09/22/14 16:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		09/22/14 16:37	98-82-8	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

QC Batch: MSV/64558 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60178486001, 60178486002, 60178486003, 60178486004, 60178486005

METHOD BLANK: 1447256 Matrix: Solid
Associated Lab Samples: 60178486001, 60178486002, 60178486003, 60178486004, 60178486005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	09/22/14 16:06	
1,1,1-Trichloroethane	ug/kg	ND	5.0	09/22/14 16:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	09/22/14 16:06	
1,1,2-Trichloroethane	ug/kg	ND	5.0	09/22/14 16:06	
1,1-Dichloroethane	ug/kg	ND	5.0	09/22/14 16:06	
1,1-Dichloroethene	ug/kg	ND	5.0	09/22/14 16:06	
1,1-Dichloropropene	ug/kg	ND	5.0	09/22/14 16:06	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	09/22/14 16:06	
1,2,3-Trichloropropane	ug/kg	ND	5.0	09/22/14 16:06	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	09/22/14 16:06	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	09/22/14 16:06	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	09/22/14 16:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	09/22/14 16:06	
1,2-Dichlorobenzene	ug/kg	ND	5.0	09/22/14 16:06	
1,2-Dichloroethane	ug/kg	ND	5.0	09/22/14 16:06	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	09/22/14 16:06	
1,2-Dichloropropane	ug/kg	ND	5.0	09/22/14 16:06	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	09/22/14 16:06	
1,3-Dichlorobenzene	ug/kg	ND	5.0	09/22/14 16:06	
1,3-Dichloropropane	ug/kg	ND	5.0	09/22/14 16:06	
1,4-Dichlorobenzene	ug/kg	ND	5.0	09/22/14 16:06	
2,2-Dichloropropane	ug/kg	ND	5.0	09/22/14 16:06	
2-Butanone (MEK)	ug/kg	ND	10.0	09/22/14 16:06	
2-Chloroethylvinyl ether	ug/kg	ND	5.0	09/22/14 16:06	
2-Chlorotoluene	ug/kg	ND	5.0	09/22/14 16:06	
2-Hexanone	ug/kg	ND	20.0	09/22/14 16:06	
4-Chlorotoluene	ug/kg	ND	5.0	09/22/14 16:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	09/22/14 16:06	
Acetone	ug/kg	ND	20.0	09/22/14 16:06	
Acrolein	ug/kg	ND	100	09/22/14 16:06	
Acrylonitrile	ug/kg	ND	100	09/22/14 16:06	
Benzene	ug/kg	ND	5.0	09/22/14 16:06	
Bromobenzene	ug/kg	ND	5.0	09/22/14 16:06	
Bromochloromethane	ug/kg	ND	5.0	09/22/14 16:06	
Bromodichloromethane	ug/kg	ND	5.0	09/22/14 16:06	
Bromoform	ug/kg	ND	5.0	09/22/14 16:06	
Bromomethane	ug/kg	ND	5.0	09/22/14 16:06	
Carbon disulfide	ug/kg	ND	5.0	09/22/14 16:06	
Carbon tetrachloride	ug/kg	ND	5.0	09/22/14 16:06	
Chlorobenzene	ug/kg	ND	5.0	09/22/14 16:06	
Chloroethane	ug/kg	ND	5.0	09/22/14 16:06	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

LABORATORY CONTROL SAMPLE: 1447257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	100	101	101	80-126	
1,2,4-Trimethylbenzene	ug/kg	100	89.7	90	78-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	91.3	91	71-125	
1,2-Dibromoethane (EDB)	ug/kg	100	93.6	94	80-121	
1,2-Dichlorobenzene	ug/kg	100	99.0	99	80-120	
1,2-Dichloroethane	ug/kg	100	93.1	93	78-120	
1,2-Dichloroethene (Total)	ug/kg	200	186	93	79-121	
1,2-Dichloropropane	ug/kg	100	90.8	91	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	88.0	88	78-120	
1,3-Dichlorobenzene	ug/kg	100	97.6	98	80-120	
1,3-Dichloropropane	ug/kg	100	92.6	93	75-120	
1,4-Dichlorobenzene	ug/kg	100	94.5	95	80-120	
2,2-Dichloropropane	ug/kg	100	83.6	84	65-129	
2-Butanone (MEK)	ug/kg	500	512	102	55-135	
2-Chloroethylvinyl ether	ug/kg	100	96.4	96	47-143	
2-Chlorotoluene	ug/kg	100	91.1	91	80-120	
2-Hexanone	ug/kg	500	472	94	57-136	
4-Chlorotoluene	ug/kg	100	94.1	94	77-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	473	95	71-128	
Acetone	ug/kg	500	499	100	43-144	
Acrolein	ug/kg	1000	584	58	60-140	L0
Acrylonitrile	ug/kg	1000	915	92	71-120	
Benzene	ug/kg	100	89.9	90	80-120	
Bromobenzene	ug/kg	100	101	101	80-122	
Bromochloromethane	ug/kg	100	97.4	97	76-122	
Bromodichloromethane	ug/kg	100	94.6	95	80-120	
Bromoform	ug/kg	100	112	112	75-124	
Bromomethane	ug/kg	100	85.2	85	38-150	
Carbon disulfide	ug/kg	100	92.7	93	58-137	
Carbon tetrachloride	ug/kg	100	92.5	92	75-140	
Chlorobenzene	ug/kg	100	92.4	92	80-120	
Chloroethane	ug/kg	100	84.5	85	65-127	
Chloroform	ug/kg	100	83.6	84	74-120	
Chloromethane	ug/kg	100	85.1	85	39-138	
cis-1,2-Dichloroethene	ug/kg	100	95.1	95	76-124	
cis-1,3-Dichloropropene	ug/kg	100	94.7	95	82-120	
Dibromochloromethane	ug/kg	100	100	100	80-124	
Dibromomethane	ug/kg	100	94.5	95	80-120	
Dichlorodifluoromethane	ug/kg	100	81.1	81	16-135	
Ethylbenzene	ug/kg	100	94.9	95	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	92.6	93	73-138	
Isopropylbenzene (Cumene)	ug/kg	100	96.2	96	80-136	
Methyl-tert-butyl ether	ug/kg	100	88.4	88	78-121	
Methylene chloride	ug/kg	100	96.6	97	70-123	
n-Butylbenzene	ug/kg	100	97.9	98	72-132	
n-Propylbenzene	ug/kg	100	89.0	89	72-127	
Naphthalene	ug/kg	100	103	103	77-126	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

QC Batch: OEXT/4673 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 Soil 1,4 Dioxane
Associated Lab Samples: 60178486001, 60178486002, 60178486003, 60178486004

METHOD BLANK: 97556 Matrix: Solid
Associated Lab Samples: 60178486001, 60178486002, 60178486003, 60178486004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/kg	ND	6.6	09/23/14 12:31	
1,4-Dioxane-d8(S)	%.	37	10-140	09/23/14 12:31	

LABORATORY CONTROL SAMPLE: 97557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/kg	333	117	35	10-140	
1,4-Dioxane-d8(S)	%.			40	10-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 97558 97559

Parameter	Units	60178332004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/kg	ND	360	357	121	130	34	36	10-140	7	40	
1,4-Dioxane-d8(S)	%.						36	39	10-140			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60178486

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.

PQL - Practical Quantitation Limit.

RL - Reporting 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.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/64558

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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Sample Condition Upon Receipt

WO#: 60178486

60178486

Client Name: ISI

Optional
Proj Due Date:
Proj Name:

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

Tracking #: 871564937207 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other ☑ ZPIC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PVG/20/14

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 holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 24Hr
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☑Yes ☐No ☐N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: SL	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 102813-3	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: KS

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: G for SAD Date: 9/23

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

September 24, 2014

Brady Gerber
Integrated Solutions
215 S. Laura
Wichita, KS 67211

RE: Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Dear Brady Gerber:
Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Rev_140924. 1,4 Dioxane results added.

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

Sincerely,

Sherri Rosenstangle

Sherri Rosenstangle
sherri.rosenstangle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60178332001	**BLD B-UFS1**	Solid	09/18/14 12:30	09/18/14 22:15
60178332002	**BLD B-UFS2**	Solid	09/18/14 12:55	09/18/14 22:15
60178332003	**BLD B-UFS3**	Solid	09/18/14 13:15	09/18/14 22:15
60178332004	**PA-UFS 1**	Solid	09/18/14 14:05	09/18/14 22:15
60178332005	**PA-UFS 2**	Solid	09/18/14 14:20	09/18/14 22:15
60178332006	**PA-UFS 3**	Solid	09/18/14 14:40	09/18/14 22:15
60178332007	**TRIP BLANK**	Solid	09/18/14 12:30	09/18/14 22:15
60178332008	**BLD B - UFS 4**	Solid	09/18/14 13:30	09/18/14 22:15
60178332009	**PA-UFS 4**	Solid	09/18/14 15:15	09/18/14 22:15

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: BLD B-UFS1 **Lab ID: 60178332001** Collected: 09/18/14 12:30 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**23.1**	mg/kg	0.50	1	09/19/14 11:05	09/22/14 11:39	7440-47-3	
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.6	1	09/23/14 12:21	09/23/14 14:59	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	31	%.	10-140	1	09/23/14 12:21	09/23/14 14:59		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**28.6**	ug/kg	11.9	1		09/19/14 12:10	67-64-1	
Acrolein	ND	ug/kg	59.5	1		09/19/14 12:10	107-02-8	L2
Acrylonitrile	ND	ug/kg	59.5	1		09/19/14 12:10	107-13-1	
Benzene	ND	ug/kg	3.0	1		09/19/14 12:10	71-43-2	
Bromobenzene	ND	ug/kg	3.0	1		09/19/14 12:10	108-86-1	
Bromochloromethane	ND	ug/kg	3.0	1		09/19/14 12:10	74-97-5	
Bromodichloromethane	ND	ug/kg	3.0	1		09/19/14 12:10	75-27-4	
Bromoform	ND	ug/kg	3.0	1		09/19/14 12:10	75-25-2	
Bromomethane	ND	ug/kg	3.0	1		09/19/14 12:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.9	1		09/19/14 12:10	78-93-3	
n-Butylbenzene	ND	ug/kg	3.0	1		09/19/14 12:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.0	1		09/19/14 12:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.0	1		09/19/14 12:10	98-06-6	
Carbon disulfide	ND	ug/kg	3.0	1		09/19/14 12:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.0	1		09/19/14 12:10	56-23-5	
Chlorobenzene	ND	ug/kg	3.0	1		09/19/14 12:10	108-90-7	
Chloroethane	ND	ug/kg	3.0	1		09/19/14 12:10	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.0	1		09/19/14 12:10	110-75-8	
Chloroform	ND	ug/kg	3.0	1		09/19/14 12:10	67-66-3	
Chloromethane	ND	ug/kg	3.0	1		09/19/14 12:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.0	1		09/19/14 12:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.0	1		09/19/14 12:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.9	1		09/19/14 12:10	96-12-8	
Dibromochloromethane	ND	ug/kg	3.0	1		09/19/14 12:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.0	1		09/19/14 12:10	106-93-4	
Dibromomethane	ND	ug/kg	3.0	1		09/19/14 12:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.0	1		09/19/14 12:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.0	1		09/19/14 12:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.0	1		09/19/14 12:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.0	1		09/19/14 12:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.0	1		09/19/14 12:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.0	1		09/19/14 12:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.0	1		09/19/14 12:10	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.0	1		09/19/14 12:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.0	1		09/19/14 12:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.0	1		09/19/14 12:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.0	1		09/19/14 12:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.0	1		09/19/14 12:10	142-28-9	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: BLD B-UFS2 **Lab ID: 60178332002** Collected: 09/18/14 12:55 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**14.2**	mg/kg	0.57	1	09/19/14 11:05	09/22/14 11:42	7440-47-3	
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	8.0	1	09/23/14 12:21	09/23/14 15:17	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	29	%.	10-140	1	09/23/14 12:21	09/23/14 15:17		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**11.8**	ug/kg	11.1	1		09/19/14 12:25	67-64-1	
Acrolein	ND	ug/kg	55.3	1		09/19/14 12:25	107-02-8	L2
Acrylonitrile	ND	ug/kg	55.3	1		09/19/14 12:25	107-13-1	
Benzene	ND	ug/kg	2.8	1		09/19/14 12:25	71-43-2	
Bromobenzene	ND	ug/kg	2.8	1		09/19/14 12:25	108-86-1	
Bromochloromethane	ND	ug/kg	2.8	1		09/19/14 12:25	74-97-5	
Bromodichloromethane	ND	ug/kg	2.8	1		09/19/14 12:25	75-27-4	
Bromoform	ND	ug/kg	2.8	1		09/19/14 12:25	75-25-2	
Bromomethane	ND	ug/kg	2.8	1		09/19/14 12:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.5	1		09/19/14 12:25	78-93-3	
n-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 12:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 12:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 12:25	98-06-6	
Carbon disulfide	ND	ug/kg	2.8	1		09/19/14 12:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.8	1		09/19/14 12:25	56-23-5	
Chlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:25	108-90-7	
Chloroethane	ND	ug/kg	2.8	1		09/19/14 12:25	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.8	1		09/19/14 12:25	110-75-8	
Chloroform	ND	ug/kg	2.8	1		09/19/14 12:25	67-66-3	
Chloromethane	ND	ug/kg	2.8	1		09/19/14 12:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.8	1		09/19/14 12:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.8	1		09/19/14 12:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		09/19/14 12:25	96-12-8	
Dibromochloromethane	ND	ug/kg	2.8	1		09/19/14 12:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.8	1		09/19/14 12:25	106-93-4	
Dibromomethane	ND	ug/kg	2.8	1		09/19/14 12:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:25	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.8	1		09/19/14 12:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.8	1		09/19/14 12:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.8	1		09/19/14 12:25	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.8	1		09/19/14 12:25	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 12:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 12:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 12:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 12:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 12:25	142-28-9	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: BLD B-UFS3 **Lab ID: 60178332003** Collected: 09/18/14 13:15 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**14.7**	mg/kg	0.41	1	09/19/14 11:05	09/22/14 11:48	7440-47-3	
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.9	1	09/23/14 12:21	09/23/14 15:36	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	30	%.	10-140	1	09/23/14 12:21	09/23/14 15:36		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**20.6**	ug/kg	11.7	1		09/19/14 12:41	67-64-1	
Acrolein	ND	ug/kg	58.3	1		09/19/14 12:41	107-02-8	L2
Acrylonitrile	ND	ug/kg	58.3	1		09/19/14 12:41	107-13-1	
Benzene	ND	ug/kg	2.9	1		09/19/14 12:41	71-43-2	
Bromobenzene	ND	ug/kg	2.9	1		09/19/14 12:41	108-86-1	
Bromochloromethane	ND	ug/kg	2.9	1		09/19/14 12:41	74-97-5	
Bromodichloromethane	ND	ug/kg	2.9	1		09/19/14 12:41	75-27-4	
Bromoform	ND	ug/kg	2.9	1		09/19/14 12:41	75-25-2	
Bromomethane	ND	ug/kg	2.9	1		09/19/14 12:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.8	1		09/19/14 12:41	78-93-3	
n-Butylbenzene	ND	ug/kg	2.9	1		09/19/14 12:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.9	1		09/19/14 12:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.9	1		09/19/14 12:41	98-06-6	
Carbon disulfide	ND	ug/kg	2.9	1		09/19/14 12:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.9	1		09/19/14 12:41	56-23-5	
Chlorobenzene	ND	ug/kg	2.9	1		09/19/14 12:41	108-90-7	
Chloroethane	ND	ug/kg	2.9	1		09/19/14 12:41	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.9	1		09/19/14 12:41	110-75-8	
Chloroform	ND	ug/kg	2.9	1		09/19/14 12:41	67-66-3	
Chloromethane	ND	ug/kg	2.9	1		09/19/14 12:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.9	1		09/19/14 12:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.9	1		09/19/14 12:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		09/19/14 12:41	96-12-8	
Dibromochloromethane	ND	ug/kg	2.9	1		09/19/14 12:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.9	1		09/19/14 12:41	106-93-4	
Dibromomethane	ND	ug/kg	2.9	1		09/19/14 12:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.9	1		09/19/14 12:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.9	1		09/19/14 12:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.9	1		09/19/14 12:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.9	1		09/19/14 12:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.9	1		09/19/14 12:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.9	1		09/19/14 12:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.9	1		09/19/14 12:41	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.9	1		09/19/14 12:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.9	1		09/19/14 12:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.9	1		09/19/14 12:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.9	1		09/19/14 12:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.9	1		09/19/14 12:41	142-28-9	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: PA-UFS 1 **Lab ID: 60178332004** Collected: 09/18/14 14:05 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.1	1	09/23/14 12:21	09/23/14 15:55	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	33	%.	10-140	1	09/23/14 12:21	09/23/14 15:55		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**15.8**	ug/kg	11.1	1		09/19/14 12:56	67-64-1	
Acrolein	ND	ug/kg	55.3	1		09/19/14 12:56	107-02-8	L2
Acrylonitrile	ND	ug/kg	55.3	1		09/19/14 12:56	107-13-1	
Benzene	ND	ug/kg	2.8	1		09/19/14 12:56	71-43-2	
Bromobenzene	ND	ug/kg	2.8	1		09/19/14 12:56	108-86-1	
Bromochloromethane	ND	ug/kg	2.8	1		09/19/14 12:56	74-97-5	
Bromodichloromethane	ND	ug/kg	2.8	1		09/19/14 12:56	75-27-4	
Bromoform	ND	ug/kg	2.8	1		09/19/14 12:56	75-25-2	
Bromomethane	ND	ug/kg	2.8	1		09/19/14 12:56	74-83-9	
2-Butanone (MEK)	**8.6**	ug/kg	5.5	1		09/19/14 12:56	78-93-3	
n-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 12:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 12:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 12:56	98-06-6	
Carbon disulfide	ND	ug/kg	2.8	1		09/19/14 12:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.8	1		09/19/14 12:56	56-23-5	
Chlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:56	108-90-7	
Chloroethane	ND	ug/kg	2.8	1		09/19/14 12:56	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.8	1		09/19/14 12:56	110-75-8	
Chloroform	ND	ug/kg	2.8	1		09/19/14 12:56	67-66-3	
Chloromethane	ND	ug/kg	2.8	1		09/19/14 12:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.8	1		09/19/14 12:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.8	1		09/19/14 12:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		09/19/14 12:56	96-12-8	
Dibromochloromethane	ND	ug/kg	2.8	1		09/19/14 12:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.8	1		09/19/14 12:56	106-93-4	
Dibromomethane	ND	ug/kg	2.8	1		09/19/14 12:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 12:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.8	1		09/19/14 12:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.8	1		09/19/14 12:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.8	1		09/19/14 12:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.8	1		09/19/14 12:56	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 12:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 12:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 12:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 12:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 12:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 12:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.8	1		09/19/14 12:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.8	1		09/19/14 12:56	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: PA-UFS 2 **Lab ID: 60178332005** Collected: 09/18/14 14:20 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.0	1	09/23/14 12:21	09/23/14 16:14	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	32	%.	10-140	1	09/23/14 12:21	09/23/14 16:14		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**12.1**	ug/kg	10.9	1		09/19/14 13:12	67-64-1	
Acrolein	ND	ug/kg	54.3	1		09/19/14 13:12	107-02-8	L2
Acrylonitrile	ND	ug/kg	54.3	1		09/19/14 13:12	107-13-1	
Benzene	ND	ug/kg	2.7	1		09/19/14 13:12	71-43-2	
Bromobenzene	ND	ug/kg	2.7	1		09/19/14 13:12	108-86-1	
Bromochloromethane	ND	ug/kg	2.7	1		09/19/14 13:12	74-97-5	
Bromodichloromethane	ND	ug/kg	2.7	1		09/19/14 13:12	75-27-4	
Bromoform	ND	ug/kg	2.7	1		09/19/14 13:12	75-25-2	
Bromomethane	ND	ug/kg	2.7	1		09/19/14 13:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.4	1		09/19/14 13:12	78-93-3	
n-Butylbenzene	ND	ug/kg	2.7	1		09/19/14 13:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.7	1		09/19/14 13:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.7	1		09/19/14 13:12	98-06-6	
Carbon disulfide	ND	ug/kg	2.7	1		09/19/14 13:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.7	1		09/19/14 13:12	56-23-5	
Chlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:12	108-90-7	
Chloroethane	ND	ug/kg	2.7	1		09/19/14 13:12	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.7	1		09/19/14 13:12	110-75-8	
Chloroform	ND	ug/kg	2.7	1		09/19/14 13:12	67-66-3	
Chloromethane	ND	ug/kg	2.7	1		09/19/14 13:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.7	1		09/19/14 13:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.7	1		09/19/14 13:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		09/19/14 13:12	96-12-8	
Dibromochloromethane	ND	ug/kg	2.7	1		09/19/14 13:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.7	1		09/19/14 13:12	106-93-4	
Dibromomethane	ND	ug/kg	2.7	1		09/19/14 13:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.7	1		09/19/14 13:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.7	1		09/19/14 13:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.7	1		09/19/14 13:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.7	1		09/19/14 13:12	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.7	1		09/19/14 13:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.7	1		09/19/14 13:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.7	1		09/19/14 13:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.7	1		09/19/14 13:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.7	1		09/19/14 13:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.7	1		09/19/14 13:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.7	1		09/19/14 13:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.7	1		09/19/14 13:12	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: PA-UFS 3 **Lab ID: 60178332006** Collected: 09/18/14 14:40 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.7	1	09/23/14 12:21	09/23/14 16:32	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	35	%.	10-140	1	09/23/14 12:21	09/23/14 16:32		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**14.2**	ug/kg	12.1	1		09/19/14 13:27	67-64-1	
Acrolein	ND	ug/kg	60.4	1		09/19/14 13:27	107-02-8	L2
Acrylonitrile	ND	ug/kg	60.4	1		09/19/14 13:27	107-13-1	
Benzene	ND	ug/kg	3.0	1		09/19/14 13:27	71-43-2	
Bromobenzene	ND	ug/kg	3.0	1		09/19/14 13:27	108-86-1	
Bromochloromethane	ND	ug/kg	3.0	1		09/19/14 13:27	74-97-5	
Bromodichloromethane	ND	ug/kg	3.0	1		09/19/14 13:27	75-27-4	
Bromoform	ND	ug/kg	3.0	1		09/19/14 13:27	75-25-2	
Bromomethane	ND	ug/kg	3.0	1		09/19/14 13:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	6.0	1		09/19/14 13:27	78-93-3	
n-Butylbenzene	ND	ug/kg	3.0	1		09/19/14 13:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.0	1		09/19/14 13:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.0	1		09/19/14 13:27	98-06-6	
Carbon disulfide	ND	ug/kg	3.0	1		09/19/14 13:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.0	1		09/19/14 13:27	56-23-5	
Chlorobenzene	ND	ug/kg	3.0	1		09/19/14 13:27	108-90-7	
Chloroethane	ND	ug/kg	3.0	1		09/19/14 13:27	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.0	1		09/19/14 13:27	110-75-8	
Chloroform	ND	ug/kg	3.0	1		09/19/14 13:27	67-66-3	
Chloromethane	ND	ug/kg	3.0	1		09/19/14 13:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.0	1		09/19/14 13:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.0	1		09/19/14 13:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.0	1		09/19/14 13:27	96-12-8	
Dibromochloromethane	ND	ug/kg	3.0	1		09/19/14 13:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.0	1		09/19/14 13:27	106-93-4	
Dibromomethane	ND	ug/kg	3.0	1		09/19/14 13:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.0	1		09/19/14 13:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.0	1		09/19/14 13:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.0	1		09/19/14 13:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.0	1		09/19/14 13:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.0	1		09/19/14 13:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.0	1		09/19/14 13:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.0	1		09/19/14 13:27	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.0	1		09/19/14 13:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.0	1		09/19/14 13:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.0	1		09/19/14 13:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.0	1		09/19/14 13:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.0	1		09/19/14 13:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.0	1		09/19/14 13:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.0	1		09/19/14 13:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.0	1		09/19/14 13:27	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: TRIP BLANK **Lab ID: 60178332007** Collected: 09/18/14 12:30 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.0	1		09/19/14 11:54	67-64-1	
Acrolein	ND	ug/kg	100	1		09/19/14 11:54	107-02-8	L2
Acrylonitrile	ND	ug/kg	100	1		09/19/14 11:54	107-13-1	
Benzene	ND	ug/kg	5.0	1		09/19/14 11:54	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		09/19/14 11:54	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		09/19/14 11:54	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		09/19/14 11:54	75-27-4	
Bromoform	ND	ug/kg	5.0	1		09/19/14 11:54	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		09/19/14 11:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	1		09/19/14 11:54	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		09/19/14 11:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		09/19/14 11:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		09/19/14 11:54	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		09/19/14 11:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		09/19/14 11:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		09/19/14 11:54	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		09/19/14 11:54	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	5.0	1		09/19/14 11:54	110-75-8	
Chloroform	ND	ug/kg	5.0	1		09/19/14 11:54	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		09/19/14 11:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		09/19/14 11:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		09/19/14 11:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.0	1		09/19/14 11:54	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		09/19/14 11:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		09/19/14 11:54	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		09/19/14 11:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		09/19/14 11:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		09/19/14 11:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		09/19/14 11:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		09/19/14 11:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		09/19/14 11:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		09/19/14 11:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.0	1		09/19/14 11:54	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		09/19/14 11:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/19/14 11:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		09/19/14 11:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		09/19/14 11:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		09/19/14 11:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		09/19/14 11:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		09/19/14 11:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/19/14 11:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		09/19/14 11:54	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		09/19/14 11:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		09/19/14 11:54	87-68-3	
2-Hexanone	ND	ug/kg	20.0	1		09/19/14 11:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		09/19/14 11:54	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: BLD B - UFS 4 **Lab ID: 60178332008** Collected: 09/18/14 13:30 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**0.95**	mg/kg	0.24	1	09/19/14 11:05	09/22/14 11:50	7440-47-3	
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	7.0	1	09/23/14 12:21	09/23/14 16:51	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	31	%.	10-140	1	09/23/14 12:21	09/23/14 16:51		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	11.1	1		09/19/14 13:43	67-64-1	
Acrolein	ND	ug/kg	55.3	1		09/19/14 13:43	107-02-8	L2
Acrylonitrile	ND	ug/kg	55.3	1		09/19/14 13:43	107-13-1	
Benzene	ND	ug/kg	2.8	1		09/19/14 13:43	71-43-2	
Bromobenzene	ND	ug/kg	2.8	1		09/19/14 13:43	108-86-1	
Bromochloromethane	ND	ug/kg	2.8	1		09/19/14 13:43	74-97-5	
Bromodichloromethane	ND	ug/kg	2.8	1		09/19/14 13:43	75-27-4	
Bromoform	ND	ug/kg	2.8	1		09/19/14 13:43	75-25-2	
Bromomethane	ND	ug/kg	2.8	1		09/19/14 13:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.5	1		09/19/14 13:43	78-93-3	
n-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 13:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 13:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.8	1		09/19/14 13:43	98-06-6	
Carbon disulfide	ND	ug/kg	2.8	1		09/19/14 13:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.8	1		09/19/14 13:43	56-23-5	
Chlorobenzene	ND	ug/kg	2.8	1		09/19/14 13:43	108-90-7	
Chloroethane	ND	ug/kg	2.8	1		09/19/14 13:43	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.8	1		09/19/14 13:43	110-75-8	
Chloroform	ND	ug/kg	2.8	1		09/19/14 13:43	67-66-3	
Chloromethane	ND	ug/kg	2.8	1		09/19/14 13:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.8	1		09/19/14 13:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.8	1		09/19/14 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		09/19/14 13:43	96-12-8	
Dibromochloromethane	ND	ug/kg	2.8	1		09/19/14 13:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.8	1		09/19/14 13:43	106-93-4	
Dibromomethane	ND	ug/kg	2.8	1		09/19/14 13:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 13:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 13:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.8	1		09/19/14 13:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.8	1		09/19/14 13:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.8	1		09/19/14 13:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.8	1		09/19/14 13:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.8	1		09/19/14 13:43	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 13:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 13:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.8	1		09/19/14 13:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 13:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.8	1		09/19/14 13:43	142-28-9	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Sample: PA-UFS 4 **Lab ID: 60178332009** Collected: 09/18/14 15:15 Received: 09/18/14 22:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	6.7	1	09/23/14 12:21	09/23/14 17:10	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	23	%.	10-140	1	09/23/14 12:21	09/23/14 17:10		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	10.9	1		09/19/14 13:58	67-64-1	
Acrolein	ND	ug/kg	54.4	1		09/19/14 13:58	107-02-8	L2
Acrylonitrile	ND	ug/kg	54.4	1		09/19/14 13:58	107-13-1	
Benzene	ND	ug/kg	2.7	1		09/19/14 13:58	71-43-2	
Bromobenzene	ND	ug/kg	2.7	1		09/19/14 13:58	108-86-1	
Bromochloromethane	ND	ug/kg	2.7	1		09/19/14 13:58	74-97-5	
Bromodichloromethane	ND	ug/kg	2.7	1		09/19/14 13:58	75-27-4	
Bromoform	ND	ug/kg	2.7	1		09/19/14 13:58	75-25-2	
Bromomethane	ND	ug/kg	2.7	1		09/19/14 13:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.4	1		09/19/14 13:58	78-93-3	
n-Butylbenzene	ND	ug/kg	2.7	1		09/19/14 13:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.7	1		09/19/14 13:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.7	1		09/19/14 13:58	98-06-6	
Carbon disulfide	ND	ug/kg	2.7	1		09/19/14 13:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.7	1		09/19/14 13:58	56-23-5	
Chlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:58	108-90-7	
Chloroethane	ND	ug/kg	2.7	1		09/19/14 13:58	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.7	1		09/19/14 13:58	110-75-8	
Chloroform	ND	ug/kg	2.7	1		09/19/14 13:58	67-66-3	
Chloromethane	ND	ug/kg	2.7	1		09/19/14 13:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.7	1		09/19/14 13:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.7	1		09/19/14 13:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		09/19/14 13:58	96-12-8	
Dibromochloromethane	ND	ug/kg	2.7	1		09/19/14 13:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.7	1		09/19/14 13:58	106-93-4	
Dibromomethane	ND	ug/kg	2.7	1		09/19/14 13:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.7	1		09/19/14 13:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.7	1		09/19/14 13:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.7	1		09/19/14 13:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.7	1		09/19/14 13:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.7	1		09/19/14 13:58	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.7	1		09/19/14 13:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.7	1		09/19/14 13:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.7	1		09/19/14 13:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.7	1		09/19/14 13:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.7	1		09/19/14 13:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.7	1		09/19/14 13:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.7	1		09/19/14 13:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.7	1		09/19/14 13:58	10061-01-5	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

QC Batch: MPRP/28978 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60178332001, 60178332002, 60178332003, 60178332008

METHOD BLANK: 1445761 Matrix: Solid
Associated Lab Samples: 60178332001, 60178332002, 60178332003, 60178332008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	09/22/14 11:35	

LABORATORY CONTROL SAMPLE: 1445762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	100	96.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1445763 1445764

Parameter	Units	60178332002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	14.2	106	104	119	113	98	95	75-125	5	20	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

METHOD BLANK: 1445848 Matrix: Solid

Associated Lab Samples: 60178332001, 60178332002, 60178332003, 60178332004, 60178332005, 60178332006, 60178332007, 60178332008, 60178332009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/kg	ND	5.0	09/19/14 11:23	
Chloroform	ug/kg	ND	5.0	09/19/14 11:23	
Chloromethane	ug/kg	ND	5.0	09/19/14 11:23	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	09/19/14 11:23	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	09/19/14 11:23	
Dibromochloromethane	ug/kg	ND	5.0	09/19/14 11:23	
Dibromomethane	ug/kg	ND	5.0	09/19/14 11:23	
Dichlorodifluoromethane	ug/kg	ND	5.0	09/19/14 11:23	
Ethylbenzene	ug/kg	ND	5.0	09/19/14 11:23	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	09/19/14 11:23	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	09/19/14 11:23	
m&p-Xylene	ug/kg	ND	5.0	09/19/14 11:23	
Methyl-tert-butyl ether	ug/kg	ND	5.0	09/19/14 11:23	
Methylene chloride	ug/kg	ND	5.0	09/19/14 11:23	
n-Butylbenzene	ug/kg	ND	5.0	09/19/14 11:23	
n-Propylbenzene	ug/kg	ND	5.0	09/19/14 11:23	
Naphthalene	ug/kg	ND	10.0	09/19/14 11:23	
o-Xylene	ug/kg	ND	5.0	09/19/14 11:23	
p-Isopropyltoluene	ug/kg	ND	5.0	09/19/14 11:23	
sec-Butylbenzene	ug/kg	ND	5.0	09/19/14 11:23	
Styrene	ug/kg	ND	5.0	09/19/14 11:23	
tert-Butylbenzene	ug/kg	ND	5.0	09/19/14 11:23	
Tetrachloroethene	ug/kg	ND	5.0	09/19/14 11:23	
Toluene	ug/kg	ND	5.0	09/19/14 11:23	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	09/19/14 11:23	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	09/19/14 11:23	
Trichloroethene	ug/kg	ND	5.0	09/19/14 11:23	
Trichlorofluoromethane	ug/kg	ND	5.0	09/19/14 11:23	
Vinyl acetate	ug/kg	ND	100	09/19/14 11:23	
Vinyl chloride	ug/kg	ND	5.0	09/19/14 11:23	
Xylene (Total)	ug/kg	ND	5.0	09/19/14 11:23	
1,2-Dichloroethane-d4 (S)	%	100	75-129	09/19/14 11:23	
4-Bromofluorobenzene (S)	%	96	76-123	09/19/14 11:23	
Toluene-d8 (S)	%	101	80-120	09/19/14 11:23	

LABORATORY CONTROL SAMPLE: 1445849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	101	101	80-122	
1,1,1-Trichloroethane	ug/kg	100	99.2	99	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	91.7	92	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.6	92	76-120	
1,1-Dichloroethane	ug/kg	100	94.1	94	71-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

LABORATORY CONTROL SAMPLE: 1445849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	ug/kg	100	88.2	88	78-121	
Methylene chloride	ug/kg	100	85.6	86	70-123	
n-Butylbenzene	ug/kg	100	109	109	72-132	
n-Propylbenzene	ug/kg	100	96.1	96	72-127	
Naphthalene	ug/kg	100	92.5	93	77-126	
o-Xylene	ug/kg	100	102	102	80-120	
p-Isopropyltoluene	ug/kg	100	99.1	99	78-128	
sec-Butylbenzene	ug/kg	100	99.9	100	73-134	
Styrene	ug/kg	100	105	105	79-120	
tert-Butylbenzene	ug/kg	100	97.9	98	77-130	
Tetrachloroethene	ug/kg	100	103	103	78-128	
Toluene	ug/kg	100	95.7	96	79-120	
trans-1,2-Dichloroethene	ug/kg	100	92.5	93	76-124	
trans-1,3-Dichloropropene	ug/kg	100	93.0	93	80-124	
Trichloroethene	ug/kg	100	95.8	96	80-120	
Trichlorofluoromethane	ug/kg	100	93.8	94	64-126	
Vinyl acetate	ug/kg	100	87.9J	88	70-130	
Vinyl chloride	ug/kg	100	78.4	78	57-132	
Xylene (Total)	ug/kg	300	316	105	79-120	
1,2-Dichloroethane-d4 (S)	%			98	75-129	
4-Bromofluorobenzene (S)	%			101	76-123	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1445850 1445851

Parameter	Units	60177772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	129	131	50.9	69.6	40	53	10-151	31	44	
1,1,1-Trichloroethane	ug/kg	ND	129	131	79.9	93.5	62	72	21-144	16	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	129	131	38.0	55.0	29	42	10-151	37	46	
1,1,2-Trichloroethane	ug/kg	ND	129	131	42.4	58.8	33	45	10-140	32	46	
1,1-Dichloroethane	ug/kg	ND	129	131	66.8	81.8	52	63	19-137	20	43	
1,1-Dichloroethene	ug/kg	ND	129	131	76.7	89.6	60	69	27-143	15	41	
1,1-Dichloropropene	ug/kg	ND	129	131	81.1	98.4	63	75	19-144	19	43	
1,2,3-Trichlorobenzene	ug/kg	ND	129	131	18.1	24.9	14	19	10-147	31	50	
1,2,3-Trichloropropane	ug/kg	ND	129	131	37.2	53.4	29	41	10-151	36	46	
1,2,4-Trichlorobenzene	ug/kg	ND	129	131	20.0	27.0	16	21	10-146	30	50	
1,2,4-Trimethylbenzene	ug/kg	ND	129	131	47.0	60.8	36	47	10-145	26	49	
1,2-Dibromo-3-chloropropane	ug/kg	ND	129	131	36.4	56.2	28	43	10-152	43	48	
1,2-Dibromoethane (EDB)	ug/kg	ND	129	131	42.1	61.4	33	47	13-153	37	40	
1,2-Dichlorobenzene	ug/kg	ND	129	131	34.2	48.3	27	37	10-147	34	48	
1,2-Dichloroethane	ug/kg	ND	129	131	48.7	66.8	38	51	21-147	31	38	
1,2-Dichloroethene (Total)	ug/kg	ND	258	262	129	160	50	61	21-139	22	44	
1,2-Dichloropropane	ug/kg	ND	129	131	56.3	73.7	44	56	15-145	27	43	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1445850 1445851

Parameter	Units	60177772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	ug/kg	ND	129	131	71.9	88.3	56	68	10-150	20	48	
Toluene	ug/kg	ND	129	131	62.3	78.4	48	60	11-150	23	40	
trans-1,2-Dichloroethene	ug/kg	ND	129	131	69.1	83.7	54	64	20-140	19	42	
trans-1,3-Dichloropropene	ug/kg	ND	129	131	41.4	60.1	32	46	10-149	37	41	
Trichloroethene	ug/kg	ND	129	131	68.6	83.8	53	64	14-146	20	45	
Trichlorofluoromethane	ug/kg	ND	129	131	89.0	111	69	85	24-130	22	41	
Vinyl acetate	ug/kg	ND	129	131	ND	ND	35	46	70-130		30	M1
Vinyl chloride	ug/kg	ND	129	131	67.7	79.7	53	61	19-131	16	37	
Xylene (Total)	ug/kg	ND	386	392	179	235	46	60	10-154	27	41	
1,2-Dichloroethane-d4 (S)	%						112	108	75-129			
4-Bromofluorobenzene (S)	%						100	102	76-123			
Toluene-d8 (S)	%						101	100	80-120			

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

QC Batch: PMST/10038 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60178332001, 60178332002, 60178332003, 60178332004, 60178332005, 60178332006, 60178332008, 60178332009

METHOD BLANK: 1445689 Matrix: Solid
Associated Lab Samples: 60178332001, 60178332002, 60178332003, 60178332004, 60178332005, 60178332006, 60178332008, 60178332009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	09/19/14 00:00	

SAMPLE DUPLICATE: 1445690

Parameter	Units	60178332001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.1	13.3	2	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS - WICHITA, KS
Pace Project No.: 60178332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60178332001	**BLD B-UFS1**	EPA 3050	MPRP/28978	EPA 6010	ICP/21826
60178332002	**BLD B-UFS2**	EPA 3050	MPRP/28978	EPA 6010	ICP/21826
60178332003	**BLD B-UFS3**	EPA 3050	MPRP/28978	EPA 6010	ICP/21826
60178332008	**BLD B - UFS 4**	EPA 3050	MPRP/28978	EPA 6010	ICP/21826
60178332001	**BLD B-UFS1**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332002	**BLD B-UFS2**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332003	**BLD B-UFS3**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332004	**PA-UFS 1**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332005	**PA-UFS 2**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332006	**PA-UFS 3**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332008	**BLD B - UFS 4**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332009	**PA-UFS 4**	EPA 3546	OEXT/4673	EPA 8270 by SIM	MSSV/1716
60178332001	**BLD B-UFS1**	EPA 8260	MSV/64513		
60178332002	**BLD B-UFS2**	EPA 8260	MSV/64513		
60178332003	**BLD B-UFS3**	EPA 8260	MSV/64513		
60178332004	**PA-UFS 1**	EPA 8260	MSV/64513		
60178332005	**PA-UFS 2**	EPA 8260	MSV/64513		
60178332006	**PA-UFS 3**	EPA 8260	MSV/64513		
60178332007	**TRIP BLANK**	EPA 8260	MSV/64513		
60178332008	**BLD B - UFS 4**	EPA 8260	MSV/64513		
60178332009	**PA-UFS 4**	EPA 8260	MSV/64513		
60178332001	**BLD B-UFS1**	ASTM D2974	PMST/10038		
60178332002	**BLD B-UFS2**	ASTM D2974	PMST/10038		
60178332003	**BLD B-UFS3**	ASTM D2974	PMST/10038		
60178332004	**PA-UFS 1**	ASTM D2974	PMST/10038		
60178332005	**PA-UFS 2**	ASTM D2974	PMST/10038		
60178332006	**PA-UFS 3**	ASTM D2974	PMST/10038		
60178332008	**BLD B - UFS 4**	ASTM D2974	PMST/10038		
60178332009	**PA-UFS 4**	ASTM D2974	PMST/10038		

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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

Section A Required Client Information:

Company: iSi Environmental
Address: 215 S. Lama, Wichita KS
Email To: bgerber@iSienvironmental.com
Phone: 316-264-7050 Fax:
Requested Due Date/TAT: ~~24~~ 48 hour

Section B Required Project Information:

Report To: iSi
Copy To:
Purchase Order No.:
Project Name: Clean Harbors - Wichita KS
Project Number:

Section C Invoice Information:

Attention:
Company Name: Clean Harbors
Address:
Pace Quote Reference:
Pace Project Manager: Sherri Rosenstangle
Pace Profile #: 7739.1

REGULATORY AGENCY

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

Site Location STATE: KS

Section D Required Client Information

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

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

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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	Analysis Test (Y/N): 8260 VOC	8260 VOC SIM for 1,4 Dioxane	8270 SVOC	6010/7471 RCRA METALS	Chromium	8270 SIM - 1,4 Dioxane					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Bld B-UFS1	SL	G			9-18-14	1230		7	X					X	X		X				X	X	VOCFW	AX/SV		N	DEGW BGAB 2(VOAW)
2	Bld B-UFS 2	SL	G			9-18-14	1255		7	X					X	X		X				X	X						
3	Bld B-UFS 3	SL	G			9-18-14	1315		7	X					X	X		X				X	X						
4	Bld B-UFS 4	SL	G			9-18-14	1330		7	X					X	X		X				X	X						
5	PA-UFS 1	SL	G			9-18-14	1405		6	X					X	X		X					X						
6	PA-UFS 2	SL	G			9-18-14	1420		6	X					X	X		X					X						
7	PA-UFS 3	SL	G			9-18-14	1440		6	X					X	X		X					X						
8	PA-UFS 4	SL	G			9-18-14	1515		6	X					X	X		X					X						
9	Trip Blank																	X											2(VOAW)
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	Brady Gerber / iSi	9-18-14	1630	[signature] / PASI	9/18/14	2215	5.8	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:	Brady Gerber					
SIGNATURE of SAMPLER:	Brady Gerber	DATE Signed (MM/DD/YY): 09/18/14				

*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-Feb-2007