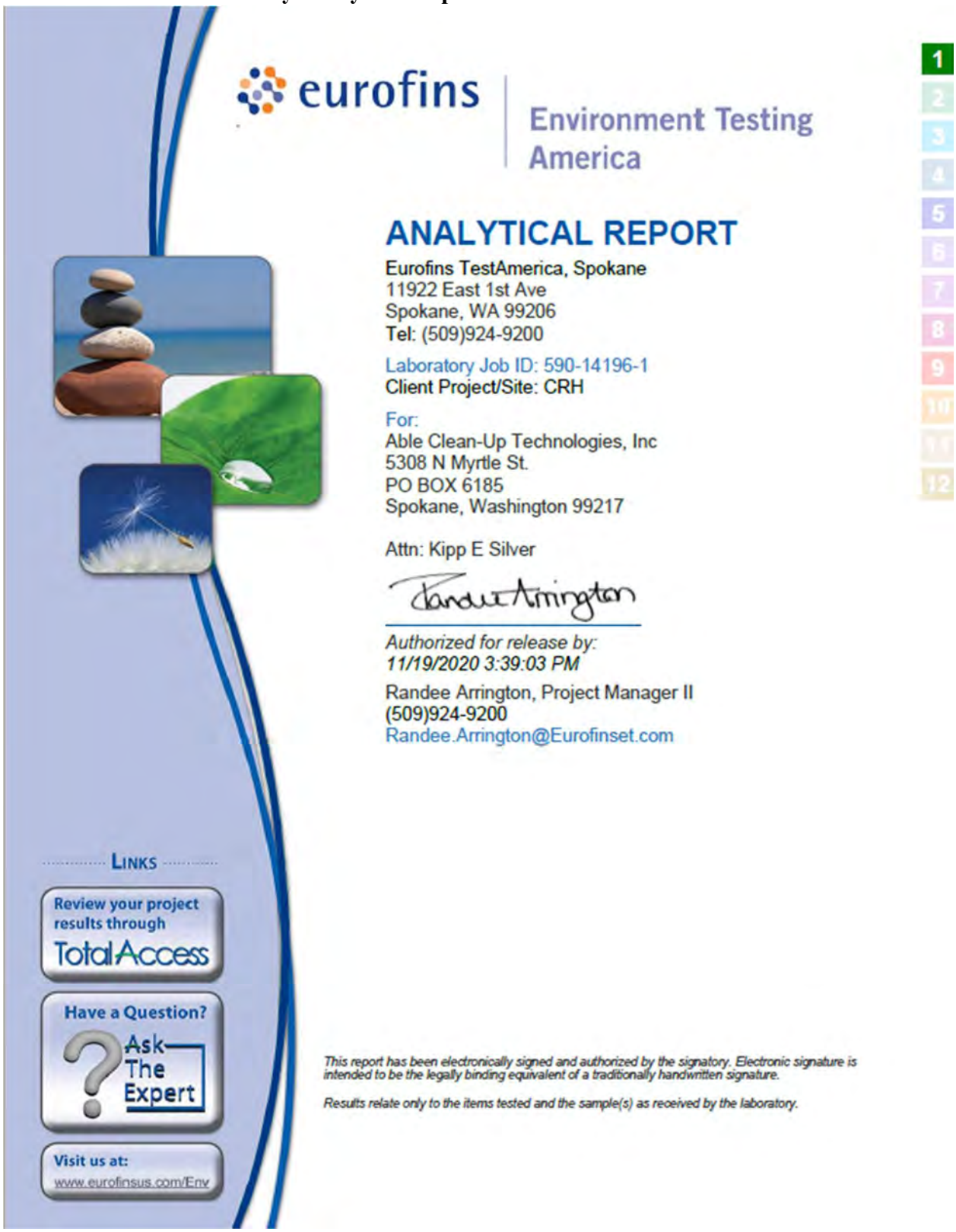
Attachment VI: Laboratory Analytical Reports



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ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-14196-1
Client Project/Site: CRH

For:
Able Clean-Up Technologies, Inc
5308 N Myrtle St.
PO BOX 6185
Spokane, Washington 99217

Attn: Kipp E Silver

Randee Arrington

Authorized for release by:
11/19/2020 3:39:03 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Job ID: 590-14196-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 11/5/2020 1:48 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 6.0° C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 590-29664 recovered above the upper control limit for 1,1-Dichloroethane, Chloroethane and Trichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for preparation batch 590-29661 and analytical batch 590-29664 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-29632 and analytical batch 590-29630 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E SIM: The following sample was diluted due to the abundance of non-target analytes: CRH-CP-6 (590-14196-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method NWTPH-Dx: Detected hydrocarbons in the oil range appear to be due to diesel overlap in the following samples: CRH-CP-2 (590-14196-2) and CRH-CP-4 (590-14196-4).

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: CRH-CP-2 (590-14196-2) and CRH-CP-5 (590-14196-5). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: CRH-CP-6 (590-14196-6). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14196-1	CRH-CP-1	Solid	11/04/20 12:27	11/05/20 13:48	
590-14196-2	CRH-CP-2	Solid	11/04/20 13:16	11/05/20 13:48	
590-14196-3	CRH-CP-3	Solid	11/04/20 13:40	11/05/20 13:48	
590-14196-4	CRH-CP-4	Solid	11/04/20 13:57	11/05/20 13:48	
590-14196-5	CRH-CP-5	Solid	11/04/20 14:35	11/05/20 13:48	
590-14196-6	CRH-CP-6	Solid	11/04/20 15:05	11/05/20 13:48	
590-14196-7	CRH-CP-7	Solid	11/04/20 15:19	11/05/20 13:48	
590-14196-8	CRH-CP-8	Solid	11/04/20 15:35	11/05/20 13:48	
590-14196-9	CRH-CP-9	Solid	11/04/20 08:42	11/05/20 13:48	
590-14196-10	CRH-CP-10	Solid	11/04/20 10:20	11/05/20 13:48	

Definitions/Glossary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-1

Lab Sample ID: 590-14196-1
Date Collected: 11/04/20 12:27
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 95.7

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg	☼	11/11/20 13:31	11/11/20 20:57	1
Ethylbenzene	ND		0.11		mg/Kg	☼	11/11/20 13:31	11/11/20 20:57	1
m,p-Xylene	ND		0.45		mg/Kg	☼	11/11/20 13:31	11/11/20 20:57	1
o-Xylene	ND		0.22		mg/Kg	☼	11/11/20 13:31	11/11/20 20:57	1
Toluene	ND		0.11		mg/Kg	☼	11/11/20 13:31	11/11/20 20:57	1
Xylenes, Total	ND		0.67		mg/Kg	☼	11/11/20 13:31	11/11/20 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 120*	*11/11/20 13:31*	*11/11/20 20:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 122*	*11/11/20 13:31*	*11/11/20 20:57*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*	*11/11/20 13:31*	*11/11/20 20:57*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*11/11/20 13:31*	*11/11/20 20:57*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	260		9.9		mg/Kg	☼	11/12/20 16:10	11/12/20 19:35	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	11/12/20 16:10	11/12/20 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*11/12/20 16:10*	*11/12/20 19:35*	*1*
n-Triacontane-d62	*84*		*50 - 150*	*11/12/20 16:10*	*11/12/20 19:35*	*1*

Client Sample ID: CRH-CP-2

Lab Sample ID: 590-14196-2
Date Collected: 11/04/20 13:16
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 95.2

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,1,2,2-Tetrachloroethane	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,1,2-Trichloroethane	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,1-Dichloroethane	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,1-Dichloroethene	ND	*	0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,2-Dichlorobenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,2-Dichloroethane	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,2-Dichloropropane	ND		0.14		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,3-Dichlorobenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
1,4-Dichlorobenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Benzene	ND		0.023		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Bromodichloromethane	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Bromoform	ND		0.23		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Bromomethane	ND		0.59		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Carbon tetrachloride	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Chlorobenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Chloroethane	ND		0.23		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Chloroform	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Chloromethane	ND		0.59		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
cis-1,2-Dichloroethene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
cis-1,3-Dichloropropene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-2
Date Collected: 11/04/20 13:16
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-2
Matrix: Solid
Percent Solids: 95.2

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		0.23		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Ethylbenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
m,p-Xylene	ND		0.47		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Methyl tert-butyl ether	ND		0.059		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Methylene Chloride	ND		0.41		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
o-Xylene	ND		0.23		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Tetrachloroethene	ND		0.047		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Toluene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
trans-1,2-Dichloroethene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
trans-1,3-Dichloropropene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Trichloroethene	ND		0.029		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Trichlorofluoromethane	ND	*	0.23		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Vinyl chloride	ND		0.070		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1
Xylenes, Total	ND		0.70		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 129*	*11/11/20 13:31*	*11/11/20 21:18*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 122*	*11/11/20 13:31*	*11/11/20 21:18*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*11/11/20 13:31*	*11/11/20 21:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*11/11/20 13:31*	*11/11/20 21:18*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	470		5.9		mg/Kg	☼	11/11/20 13:31	11/11/20 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*41.5 - 162*	*11/11/20 13:31*	*11/11/20 21:18*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	4900		100		ug/Kg	☼	11/09/20 14:42	11/09/20 19:33	10
2-Methylnaphthalene	4800		100		ug/Kg	☼	11/09/20 14:42	11/09/20 19:33	10
Acenaphthene	ND	F1 F2	10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Acenaphthylene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Anthracene	47		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Benzo[a]anthracene	11		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Chrysene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Fluoranthene	33		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Fluorene	ND	F1 F2	10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Naphthalene	360		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1
Phenanthrene	2700		100		ug/Kg	☼	11/09/20 14:42	11/09/20 19:33	10
Pyrene	95		10		ug/Kg	☼	11/09/20 14:42	11/09/20 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*56 - 120*	*11/09/20 14:42*	*11/09/20 19:33*	*10*

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-2

Lab Sample ID: 590-14196-2
Matrix: Solid
Percent Solids: 95.2

Date Collected: 11/04/20 13:16
Date Received: 11/05/20 13:48

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	105		43 - 120	11/09/20 14:42	11/09/20 16:56	1
Nitrobenzene-d5	96		43 - 120	11/09/20 14:42	11/09/20 19:33	10
p-Terphenyl-d14	109		74 - 136	11/09/20 14:42	11/09/20 16:56	1
p-Terphenyl-d14	105		74 - 136	11/09/20 14:42	11/09/20 19:33	10

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.084		ug/Kg	☼	11/07/20 12:15	11/07/20 13:56	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1221	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1232	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1242	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1248	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1254	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1260	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1268	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1
PCB-1262	ND		10		ug/Kg	☼	11/18/20 15:17	11/18/20 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		22 - 131	11/18/20 15:17	11/18/20 18:55	1
DCB Decachlorobiphenyl (Surr)	80		32 - 133	11/18/20 15:17	11/18/20 18:55	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2500		10		mg/Kg	☼	11/12/20 16:10	11/12/20 19:55	1
Residual Range Organics (RRO) (C25-C36)	39		25		mg/Kg	☼	11/12/20 16:10	11/12/20 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	180	X	50 - 150	11/12/20 16:10	11/12/20 19:55	1
n-Triacontane-d62	93		50 - 150	11/12/20 16:10	11/12/20 19:55	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.3		mg/Kg	☼	11/09/20 10:52	11/10/20 11:46	1

Client Sample ID: CRH-CP-3

Lab Sample ID: 590-14196-3
Matrix: Solid
Percent Solids: 96.3

Date Collected: 11/04/20 13:40
Date Received: 11/05/20 13:48

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	11/11/20 13:31	11/11/20 21:40	1
Ethylbenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:40	1
m,p-Xylene	ND		0.49		mg/Kg	☼	11/11/20 13:31	11/11/20 21:40	1
o-Xylene	ND		0.24		mg/Kg	☼	11/11/20 13:31	11/11/20 21:40	1
Toluene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 21:40	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-3

Lab Sample ID: 590-14196-3
Date Collected: 11/04/20 13:40
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 96.3

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.73		mg/Kg	☼	11/11/20 13:31	11/11/20 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 120*	*11/11/20 13:31*	*11/11/20 21:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 122*	*11/11/20 13:31*	*11/11/20 21:40*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*11/11/20 13:31*	*11/11/20 21:40*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*11/11/20 13:31*	*11/11/20 21:40*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	120		10		mg/Kg	☼	11/12/20 16:10	11/12/20 20:36	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	11/12/20 16:10	11/12/20 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*50 - 150*	*11/12/20 16:10*	*11/12/20 20:36*	*1*
n-Triacontane-d62	*90*		*50 - 150*	*11/12/20 16:10*	*11/12/20 20:36*	*1*

Client Sample ID: CRH-CP-4

Lab Sample ID: 590-14196-4
Date Collected: 11/04/20 13:57
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 96.5

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	11/11/20 13:31	11/11/20 22:22	1
Ethylbenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 22:22	1
m,p-Xylene	ND		0.47		mg/Kg	☼	11/11/20 13:31	11/11/20 22:22	1
o-Xylene	ND		0.23		mg/Kg	☼	11/11/20 13:31	11/11/20 22:22	1
Toluene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 22:22	1
Xylenes, Total	ND		0.70		mg/Kg	☼	11/11/20 13:31	11/11/20 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 120*	*11/11/20 13:31*	*11/11/20 22:22*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 122*	*11/11/20 13:31*	*11/11/20 22:22*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*11/11/20 13:31*	*11/11/20 22:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*11/11/20 13:31*	*11/11/20 22:22*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	360		10		mg/Kg	☼	11/12/20 16:10	11/12/20 20:56	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	11/12/20 16:10	11/12/20 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*100*		*50 - 150*	*11/12/20 16:10*	*11/12/20 20:56*	*1*
n-Triacontane-d62	*85*		*50 - 150*	*11/12/20 16:10*	*11/12/20 20:56*	*1*

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-5

Lab Sample ID: 590-14196-5
Date Collected: 11/04/20 14:35
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 96.3

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg	☼	11/11/20 13:31	11/11/20 23:05	1
Ethylbenzene	ND		0.11		mg/Kg	☼	11/11/20 13:31	11/11/20 23:05	1
m,p-Xylene	ND		0.44		mg/Kg	☼	11/11/20 13:31	11/11/20 23:05	1
o-Xylene	ND		0.22		mg/Kg	☼	11/11/20 13:31	11/11/20 23:05	1
Toluene	ND		0.11		mg/Kg	☼	11/11/20 13:31	11/11/20 23:05	1
Xylenes, Total	ND		0.67		mg/Kg	☼	11/11/20 13:31	11/11/20 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 129*	*11/11/20 13:31*	*11/11/20 23:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*	*11/11/20 13:31*	*11/11/20 23:05*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*11/11/20 13:31*	*11/11/20 23:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*11/11/20 13:31*	*11/11/20 23:05*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1200		9.9		mg/Kg	☼	11/12/20 16:10	11/12/20 21:17	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	11/12/20 16:10	11/12/20 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*171*	*X*	*50 - 150*	*11/12/20 16:10*	*11/12/20 21:17*	*1*
n-Triacontane-d62	*98*		*50 - 150*	*11/12/20 16:10*	*11/12/20 21:17*	*1*

Client Sample ID: CRH-CP-6

Lab Sample ID: 590-14196-6
Date Collected: 11/04/20 15:05
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 85.4

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,1,2,2-Tetrachloroethane	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,1,2-Trichloroethane	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,1-Dichloroethane	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,1-Dichloroethene	ND	*	1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,2-Dichlorobenzene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,2-Dichloroethane	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,2-Dichloropropane	ND		1.6		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,3-Dichlorobenzene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
1,4-Dichlorobenzene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Benzene	ND		0.27		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Bromodichloromethane	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Bromoform	ND		2.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Bromomethane	ND		6.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Carbon tetrachloride	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Chlorobenzene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Chloroethane	ND		2.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Chloroform	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Chloromethane	ND		6.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
cis-1,2-Dichloroethene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
cis-1,3-Dichloropropene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-6
Date Collected: 11/04/20 15:05
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-6
Matrix: Solid
Percent Solids: 85.4

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		2.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Ethylbenzene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
m,p-Xylene	ND		5.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Methyl tert-butyl ether	ND		0.67		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Methylene Chloride	ND		4.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
o-Xylene	ND		2.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Tetrachloroethene	ND		0.53		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Toluene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
trans-1,2-Dichloroethene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
trans-1,3-Dichloropropene	ND		1.3		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Trichloroethene	ND		0.33		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Trichlorofluoromethane	ND	*	2.7		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Vinyl chloride	ND		0.80		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10
Xylenes, Total	ND		8.0		mg/Kg	☼	11/11/20 13:31	11/11/20 23:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 129*	*11/11/20 13:31*	*11/11/20 23:26*	*10*
4-Bromofluorobenzene (Surr)	*103*		*76 - 122*	*11/11/20 13:31*	*11/11/20 23:26*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*11/11/20 13:31*	*11/11/20 23:26*	*10*
Toluene-d8 (Surr)	*93*		*80 - 120*	*11/11/20 13:31*	*11/11/20 23:26*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2100		67		mg/Kg	☼	11/11/20 13:31	11/13/20 11:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*41.5 - 162*	*11/11/20 13:31*	*11/13/20 11:43*	*10*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
2-Methylnaphthalene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Acenaphthene	920		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Acenaphthylene	300		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Anthracene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Benzo[a]anthracene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Benzo[a]pyrene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Benzo[b]fluoranthene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Benzo[g,h,i]perylene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Benzo[k]fluoranthene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Chrysene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Dibenz(a,h)anthracene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Fluoranthene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Fluorene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Indeno[1,2,3-cd]pyrene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Naphthalene	ND		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Phenanthrene	730		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20
Pyrene	290		220		ug/Kg	☼	11/09/20 14:42	11/09/20 20:51	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*105*		*56 - 120*	*11/09/20 14:42*	*11/09/20 20:51*	*20*

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-6

Lab Sample ID: 590-14196-6
Date Collected: 11/04/20 15:05
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 85.4

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	114		43 - 120	11/09/20 14:42	11/09/20 20:51	20
p-Terphenyl-d14	105		74 - 136	11/09/20 14:42	11/09/20 20:51	20

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.093		ug/Kg	☼	11/07/20 12:15	11/07/20 14:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1221	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1232	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1242	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1248	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1254	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1260	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1268	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1
PCB-1262	ND		12		ug/Kg	☼	11/18/20 15:17	11/18/20 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70	p	22 - 131	11/18/20 15:17	11/18/20 19:16	1
DCB Decachlorobiphenyl (Surr)	94		32 - 133	11/18/20 15:17	11/18/20 19:16	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	8000		110		mg/Kg	☼	11/12/20 16:10	11/18/20 15:36	10
Residual Range Organics (RRO) (C25-C36)	ND		280		mg/Kg	☼	11/12/20 16:10	11/18/20 15:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	7	X	50 - 150	11/12/20 16:10	11/18/20 15:36	10
n-Triacontane-d62	116		50 - 150	11/12/20 16:10	11/18/20 15:36	10

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.1		mg/Kg	☼	11/09/20 10:52	11/10/20 11:50	1

Client Sample ID: CRH-CP-7

Lab Sample ID: 590-14196-7
Date Collected: 11/04/20 15:19
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 94.6

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg	☼	11/11/20 13:31	11/11/20 23:47	1
Ethylbenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 23:47	1
m,p-Xylene	ND		0.49		mg/Kg	☼	11/11/20 13:31	11/11/20 23:47	1
o-Xylene	ND		0.25		mg/Kg	☼	11/11/20 13:31	11/11/20 23:47	1
Toluene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/11/20 23:47	1
Xylenes, Total	ND		0.74		mg/Kg	☼	11/11/20 13:31	11/11/20 23:47	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-7

Lab Sample ID: 590-14196-7
Date Collected: 11/04/20 15:19
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 94.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 120	11/11/20 13:31	11/11/20 23:47	1
4-Bromofluorobenzene (Surr)	93		76 - 122	11/11/20 13:31	11/11/20 23:47	1
Dibromofluoromethane (Surr)	101		80 - 120	11/11/20 13:31	11/11/20 23:47	1
Toluene-d8 (Surr)	101		80 - 120	11/11/20 13:31	11/11/20 23:47	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		11		mg/Kg	☼	11/12/20 16:10	11/12/20 22:18	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	11/12/20 16:10	11/12/20 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	11/12/20 16:10	11/12/20 22:18	1
n-Triacontane-d62	85		50 - 150	11/12/20 16:10	11/12/20 22:18	1

Client Sample ID: CRH-CP-8

Lab Sample ID: 590-14196-8
Date Collected: 11/04/20 15:35
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 95.8

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	11/11/20 13:31	11/12/20 00:08	1
Ethylbenzene	ND		0.11		mg/Kg	☼	11/11/20 13:31	11/12/20 00:08	1
m,p-Xylene	ND		0.45		mg/Kg	☼	11/11/20 13:31	11/12/20 00:08	1
o-Xylene	ND		0.23		mg/Kg	☼	11/11/20 13:31	11/12/20 00:08	1
Toluene	ND		0.11		mg/Kg	☼	11/11/20 13:31	11/12/20 00:08	1
Xylenes, Total	ND		0.68		mg/Kg	☼	11/11/20 13:31	11/12/20 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 120	11/11/20 13:31	11/12/20 00:08	1
4-Bromofluorobenzene (Surr)	95		76 - 122	11/11/20 13:31	11/12/20 00:08	1
Dibromofluoromethane (Surr)	100		80 - 120	11/11/20 13:31	11/12/20 00:08	1
Toluene-d8 (Surr)	101		80 - 120	11/11/20 13:31	11/12/20 00:08	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	11/12/20 16:10	11/12/20 22:39	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	11/12/20 16:10	11/12/20 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	11/12/20 16:10	11/12/20 22:39	1
n-Triacontane-d62	87		50 - 150	11/12/20 16:10	11/12/20 22:39	1

Client Sample ID: CRH-CP-9

Lab Sample ID: 590-14196-9
Date Collected: 11/04/20 08:42
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 93.9

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	11/11/20 13:31	11/12/20 00:30	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-9

Lab Sample ID: 590-14196-9
Date Collected: 11/04/20 08:42
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 93.9

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/12/20 00:30	1
m,p-Xylene	ND		0.48		mg/Kg	☼	11/11/20 13:31	11/12/20 00:30	1
o-Xylene	ND		0.24		mg/Kg	☼	11/11/20 13:31	11/12/20 00:30	1
Toluene	ND		0.12		mg/Kg	☼	11/11/20 13:31	11/12/20 00:30	1
Xylenes, Total	ND		0.71		mg/Kg	☼	11/11/20 13:31	11/12/20 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 129*	*11/11/20 13:31*	*11/12/20 00:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 122*	*11/11/20 13:31*	*11/12/20 00:30*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*	*11/11/20 13:31*	*11/12/20 00:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*11/11/20 13:31*	*11/12/20 00:30*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	410		10		mg/Kg	☼	11/12/20 16:10	11/12/20 22:59	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	11/12/20 16:10	11/12/20 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*143*		*50 - 150*	*11/12/20 16:10*	*11/12/20 22:59*	*1*
n-Triacontane-d62	*93*		*50 - 150*	*11/12/20 16:10*	*11/12/20 22:59*	*1*

Client Sample ID: CRH-CP-10

Lab Sample ID: 590-14196-10
Date Collected: 11/04/20 10:20
Matrix: Solid
Date Received: 11/05/20 13:48
Percent Solids: 92.6

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg	☼	11/11/20 13:31	11/12/20 00:51	1
Ethylbenzene	ND		0.13		mg/Kg	☼	11/11/20 13:31	11/12/20 00:51	1
m,p-Xylene	ND		0.51		mg/Kg	☼	11/11/20 13:31	11/12/20 00:51	1
o-Xylene	ND		0.25		mg/Kg	☼	11/11/20 13:31	11/12/20 00:51	1
Toluene	ND		0.13		mg/Kg	☼	11/11/20 13:31	11/12/20 00:51	1
Xylenes, Total	ND		0.76		mg/Kg	☼	11/11/20 13:31	11/12/20 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 129*	*11/11/20 13:31*	*11/12/20 00:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 122*	*11/11/20 13:31*	*11/12/20 00:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*11/11/20 13:31*	*11/12/20 00:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*11/11/20 13:31*	*11/12/20 00:51*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	980		11		mg/Kg	☼	11/12/20 16:10	11/12/20 23:19	1
Residual Range Organics (RRO) (C25-C36)	ND		27		mg/Kg	☼	11/12/20 16:10	11/12/20 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*50 - 150*	*11/12/20 16:10*	*11/12/20 23:19*	*1*
n-Triacontane-d62	*94*		*50 - 150*	*11/12/20 16:10*	*11/12/20 23:19*	*1*

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-29661/1-A
Matrix: Solid
Analysis Batch: 29664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,1,2,2-Tetrachloroethane	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,1,2-Trichloroethane	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,1-Dichloroethane	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,1-Dichloroethene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,2-Dichlorobenzene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,2-Dichloroethane	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,2-Dichloropropane	ND		0.12		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,3-Dichlorobenzene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
1,4-Dichlorobenzene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Benzene	ND		0.020		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Bromodichloromethane	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Bromoform	ND		0.20		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Bromomethane	ND		0.50		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Carbon tetrachloride	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Chlorobenzene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Chloroethane	ND		0.20		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Chloroform	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Chloromethane	ND		0.50		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
cis-1,2-Dichloroethene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
cis-1,3-Dichloropropene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Dibromochloromethane	ND		0.20		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Ethylbenzene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
m,p-Xylene	ND		0.40		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Methyl tert-butyl ether	ND		0.050		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Methylene Chloride	ND		0.35		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
o-Xylene	ND		0.20		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Tetrachloroethene	ND		0.040		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Toluene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
trans-1,2-Dichloroethene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
trans-1,3-Dichloropropene	ND		0.10		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Trichloroethene	ND		0.025		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Trichlorofluoromethane	ND		0.20		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Vinyl chloride	ND		0.060		mg/Kg		11/11/20 13:31	11/11/20 14:56	1
Xylenes, Total	ND		0.60		mg/Kg		11/11/20 13:31	11/11/20 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 129*	*11/11/20 13:31*	*11/11/20 14:56*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 122*	*11/11/20 13:31*	*11/11/20 14:56*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*11/11/20 13:31*	*11/11/20 14:56*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*	*11/11/20 13:31*	*11/11/20 14:56*	*1*

Lab Sample ID: LCS 590-29661/2-A
Matrix: Solid
Analysis Batch: 29664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.564		mg/Kg		113	80 - 138

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-29661/2-A
Matrix: Solid
Analysis Batch: 29664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	0.500	0.432		mg/Kg		86	75 - 128
1,1,2-Trichloroethane	0.500	0.509		mg/Kg		102	80 - 125
1,1-Dichloroethane	0.500	0.534		mg/Kg		107	80 - 129
1,1-Dichloroethene	0.500	0.747	*	mg/Kg		149	73 - 135
1,2-Dichlorobenzene	0.500	0.502		mg/Kg		100	80 - 124
1,2-Dichloroethane	0.500	0.576		mg/Kg		115	80 - 129
1,2-Dichloropropane	0.500	0.494		mg/Kg		99	75 - 129
1,3-Dichlorobenzene	0.500	0.515		mg/Kg		103	80 - 130
1,4-Dichlorobenzene	0.500	0.510		mg/Kg		102	80 - 125
Benzene	0.500	0.497		mg/Kg		99	76 - 129
Bromodichloromethane	0.500	0.539		mg/Kg		108	80 - 128
Bromoform	0.500	0.505		mg/Kg		101	72 - 133
Bromomethane	0.500	0.618		mg/Kg		124	56 - 138
Carbon tetrachloride	0.500	0.591		mg/Kg		118	80 - 135
Chlorobenzene	0.500	0.536		mg/Kg		107	80 - 129
Chloroethane	0.500	0.673		mg/Kg		135	50 - 142
Chloroform	0.500	0.509		mg/Kg		102	80 - 130
Chloromethane	0.500	0.463	J	mg/Kg		93	46 - 132
cis-1,2-Dichloroethene	0.500	0.527		mg/Kg		105	80 - 135
cis-1,3-Dichloropropene	0.500	0.487		mg/Kg		97	80 - 126
Dibromochloromethane	0.500	0.531		mg/Kg		106	78 - 127
Ethylbenzene	0.500	0.530		mg/Kg		106	77 - 133
m,p-Xylene	0.500	0.517		mg/Kg		103	78 - 130
Methyl tert-butyl ether	0.500	0.489		mg/Kg		98	80 - 130
Methylene Chloride	0.500	0.686		mg/Kg		137	38 - 150
o-Xylene	0.500	0.500		mg/Kg		100	77 - 129
Tetrachloroethene	0.500	0.596		mg/Kg		119	77 - 134
Toluene	0.500	0.492		mg/Kg		98	77 - 131
trans-1,2-Dichloroethene	0.500	0.535		mg/Kg		107	80 - 133
trans-1,3-Dichloropropene	0.500	0.505		mg/Kg		101	80 - 124
Trichloroethene	0.500	0.549		mg/Kg		110	79 - 133
Trichlorofluoromethane	0.500	0.675	*	mg/Kg		135	64 - 133
Vinyl chloride	0.500	0.586		mg/Kg		117	51 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 129*
4-Bromofluorobenzene (Surr)	*93*		*76 - 122*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 590-14196-4 DU
Matrix: Solid
Analysis Batch: 29664

Client Sample ID: CRH-CP-4
Prep Type: Total/NA
Prep Batch: 29661

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	ND		ND		mg/Kg	☼	NC	25
Ethylbenzene	ND		ND		mg/Kg	☼	NC	25
m,p-Xylene	ND		ND		mg/Kg	☼	NC	23

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-14196-4 DU
Matrix: Solid
Analysis Batch: 29664

Client Sample ID: CRH-CP-4
Prep Type: Total/NA
Prep Batch: 29661

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
o-Xylene	ND			ND		mg/Kg	☼			NC	25
Toluene	ND			ND		mg/Kg	☼			NC	25
Xylenes, Total	ND			ND		mg/Kg	☼			NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 129*
4-Bromofluorobenzene (Surr)	*93*		*76 - 122*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-29661/1-A
Matrix: Solid
Analysis Batch: 29663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		11/11/20 13:31	11/11/20 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*41.5 - 162*	*11/11/20 13:31*	*11/11/20 14:56*	*1*

Lab Sample ID: LCS 590-29661/3-A
Matrix: Solid
Analysis Batch: 29663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29661

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			50.0	58.9		mg/Kg		118	74.4 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*41.5 - 162*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-29632/1-A
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
2-Methylnaphthalene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Acenaphthene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Acenaphthylene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Anthracene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Benzo[a]anthracene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Benzo[a]pyrene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Benzo[b]fluoranthene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 590-29632/1-A
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Chrysene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Fluoranthene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Fluorene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Naphthalene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Phenanthrene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1
Pyrene	ND		10		ug/Kg		11/09/20 14:42	11/09/20 16:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	101		56 - 120	11/09/20 14:42	11/09/20 16:03	1
Nitrobenzene-d5	82		43 - 120	11/09/20 14:42	11/09/20 16:03	1
p-Terphenyl-d14	120		74 - 136	11/09/20 14:42	11/09/20 16:03	1

Lab Sample ID: LCS 590-29632/2-A
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	267	234		ug/Kg		88	55 - 120
2-Methylnaphthalene	267	229		ug/Kg		86	48 - 120
Acenaphthene	267	259		ug/Kg		97	53 - 120
Acenaphthylene	267	265		ug/Kg		99	59 - 120
Anthracene	267	270		ug/Kg		101	60 - 129
Benzo[a]anthracene	267	305		ug/Kg		114	61 - 125
Benzo[a]pyrene	267	272		ug/Kg		102	60 - 120
Benzo[b]fluoranthene	267	275		ug/Kg		103	67 - 127
Benzo[g,h,i]perylene	267	268		ug/Kg		101	58 - 129
Benzo[k]fluoranthene	267	270		ug/Kg		101	63 - 127
Chrysene	267	291		ug/Kg		109	67 - 127
Dibenz(a,h)anthracene	267	268		ug/Kg		100	60 - 128
Fluoranthene	267	281		ug/Kg		105	63 - 127
Fluorene	267	268		ug/Kg		101	63 - 120
Indeno[1,2,3-cd]pyrene	267	273		ug/Kg		102	63 - 128
Naphthalene	267	229		ug/Kg		86	39 - 120
Phenanthrene	267	266		ug/Kg		100	65 - 121
Pyrene	267	289		ug/Kg		108	68 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	101		56 - 120
Nitrobenzene-d5	82		43 - 120
p-Terphenyl-d14	118		74 - 136

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 590-14196-2 MS
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND	F1 F2	279	297		ug/Kg	☼	107	53 - 120
Acenaphthylene	ND		279	262		ug/Kg	☼	94	59 - 120
Anthracene	47		279	367		ug/Kg	☼	115	60 - 129
Benzo[a]anthracene	11		279	295		ug/Kg	☼	102	61 - 125
Benzo[a]pyrene	ND		279	293		ug/Kg	☼	105	60 - 120
Benzo[b]fluoranthene	ND		279	335		ug/Kg	☼	120	67 - 127
Benzo[g,h,i]perylene	ND		279	319		ug/Kg	☼	114	58 - 129
Benzo[k]fluoranthene	ND		279	314		ug/Kg	☼	113	63 - 127
Chrysene	ND		279	306		ug/Kg	☼	107	67 - 127
Dibenz(a,h)anthracene	ND		279	314		ug/Kg	☼	113	60 - 128
Fluoranthene	33		279	308		ug/Kg	☼	99	63 - 127
Fluorene	ND	F1 F2	279	250		ug/Kg	☼	90	63 - 120
Indeno[1,2,3-cd]pyrene	ND		279	299		ug/Kg	☼	107	63 - 128
Naphthalene	360		279	583		ug/Kg	☼	79	39 - 120
Pyrene	95		279	391		ug/Kg	☼	106	68 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*56 - 120*
Nitrobenzene-d5	*103*		*43 - 120*
p-Terphenyl-d14	*113*		*74 - 136*

Lab Sample ID: 590-14196-2 MS
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	4900		279	5180	4	ug/Kg	☼	105	55 - 120
2-Methylnaphthalene	4800		279	5120	4	ug/Kg	☼	106	48 - 120
Phenanthrene	2700		279	3040	4	ug/Kg	☼	124	65 - 121

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*97*		*56 - 120*
Nitrobenzene-d5	*89*		*43 - 120*
p-Terphenyl-d14	*105*		*74 - 136*

Lab Sample ID: 590-14196-2 MSD
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND	F1 F2	278	474	F1 F2	ug/Kg	☼	170	53 - 120	46	17
Acenaphthylene	ND		278	256		ug/Kg	☼	92	59 - 120	2	20
Anthracene	47		278	331		ug/Kg	☼	102	60 - 129	10	18
Benzo[a]anthracene	11		278	283		ug/Kg	☼	98	61 - 125	4	16
Benzo[a]pyrene	ND		278	283		ug/Kg	☼	102	60 - 120	3	20
Benzo[b]fluoranthene	ND		278	322		ug/Kg	☼	116	67 - 127	4	16
Benzo[g,h,i]perylene	ND		278	311		ug/Kg	☼	112	58 - 129	2	17
Benzo[k]fluoranthene	ND		278	306		ug/Kg	☼	110	63 - 127	3	16

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 590-14196-2 MSD
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	ND		278	288		ug/Kg	☼	101	67 - 127	6	15
Dibenz(a,h)anthracene	ND		278	309		ug/Kg	☼	111	60 - 128	2	18
Fluoranthene	33		278	274		ug/Kg	☼	87	63 - 127	11	18
Fluorene	ND	F1 F2	278	384	F1 F2	ug/Kg	☼	138	63 - 120	42	21
Indeno[1,2,3-cd]pyrene	ND		278	293		ug/Kg	☼	105	63 - 128	2	18
Naphthalene	360		278	502		ug/Kg	☼	51	39 - 120	15	35
Pyrene	95		278	363		ug/Kg	☼	96	68 - 125	7	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl-d14	*107*		*74 - 136*

Lab Sample ID: 590-14196-2 MSD
Matrix: Solid
Analysis Batch: 29630

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	4900		278	5140	4	ug/Kg	☼	91	55 - 120	1	24
2-Methylnaphthalene	4800		278	4840	4	ug/Kg	☼	7	48 - 120	6	30
Phenanthrene	2700		278	2930	4	ug/Kg	☼	83	65 - 121	4	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*99*		*56 - 120*
Nitrobenzene-d5	*118*		*43 - 120*
p-Terphenyl-d14	*104*		*74 - 136*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 590-29618/2-A
Matrix: Solid
Analysis Batch: 29619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.060		ug/Kg		11/07/20 12:15	11/07/20 13:07	1

Lab Sample ID: LCS 590-29618/3-A
Matrix: Solid
Analysis Batch: 29619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	1.00	1.01		ug/Kg		101	60 - 140

Lab Sample ID: LCSD 590-29618/4-A
Matrix: Solid
Analysis Batch: 29619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29618

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	1.00	1.05		ug/Kg		105	60 - 140	4	20

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 590-14196-2 MS
Matrix: Solid
Analysis Batch: 29619

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND		1.04	0.673		ug/Kg	☼	65	60 - 140

Lab Sample ID: 590-14196-2 MSD
Matrix: Solid
Analysis Batch: 29619

Client Sample ID: CRH-CP-2
Prep Type: Total/NA
Prep Batch: 29618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		1.02	0.645		ug/Kg	☼	63	60 - 140	4	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 590-29721/1-A
Matrix: Solid
Analysis Batch: 29720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1221	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1232	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1242	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1248	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1254	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1260	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1268	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1
PCB-1262	ND		10		ug/Kg		11/18/20 15:17	11/18/20 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		22 - 131	11/18/20 15:17	11/18/20 16:48	1
DCB Decachlorobiphenyl (Surr)	117		32 - 133	11/18/20 15:17	11/18/20 16:48	1

Lab Sample ID: LCS 590-29721/2-A
Matrix: Solid
Analysis Batch: 29720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	66.7	64.1		ug/Kg		96	55 - 136
PCB-1260	66.7	72.8		ug/Kg		109	63 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	99		22 - 131
DCB Decachlorobiphenyl (Surr)	116		32 - 133

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-29677/1-A
Matrix: Solid
Analysis Batch: 29670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		11/12/20 16:10	11/12/20 18:33	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		11/12/20 16:10	11/12/20 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*11/12/20 16:10*	*11/12/20 18:33*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*11/12/20 16:10*	*11/12/20 18:33*	*1*

Lab Sample ID: LCS 590-29677/2-A
Matrix: Solid
Analysis Batch: 29670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	51.1		mg/Kg		77	50 - 150
Residual Range Organics (RRO) (C25-C36)	66.7	52.1		mg/Kg		78	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*
n-Triacontane-d62	*86*		*50 - 150*

Lab Sample ID: 590-14196-1 DU
Matrix: Solid
Analysis Batch: 29670

Client Sample ID: CRH-CP-1
Prep Type: Total/NA
Prep Batch: 29677

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	260		138	F3	mg/Kg	☼	60	40
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/Kg	☼	NC	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	*96*		*50 - 150*
n-Triacontane-d62	*87*		*50 - 150*

Lab Sample ID: 590-14196-3 DU
Matrix: Solid
Analysis Batch: 29670

Client Sample ID: CRH-CP-3
Prep Type: Total/NA
Prep Batch: 29677

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	120		122		mg/Kg	☼	0.8	40
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/Kg	☼	NC	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	*100*		*50 - 150*

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-14196-3 DU
Matrix: Solid
Analysis Batch: 29670

Client Sample ID: CRH-CP-3
Prep Type: Total/NA
Prep Batch: 29677

Surrogate	DU %Recovery	DU Qualifier	Limits
n-Triacontane-d62	91		50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-29623/2-A
Matrix: Solid
Analysis Batch: 29649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		11/09/20 10:51	11/10/20 10:46	1

Lab Sample ID: LCS 590-29623/1-A
Matrix: Solid
Analysis Batch: 29649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29623

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	57.4		mg/Kg		115	80 - 120

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-1 — **Lab Sample ID: 590-14196-1**
Date Collected: 11/04/20 12:27 — Matrix: Solid
Date Received: 11/05/20 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-1 — **Lab Sample ID: 590-14196-1**
Date Collected: 11/04/20 12:27 — Matrix: Solid
Date Received: 11/05/20 13:48 — Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.762 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/11/20 20:57	JSP	TAL SPK
Total/NA	Prep	3550C			15.75 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 19:35	NMI	TAL SPK

Client Sample ID: CRH-CP-2 — **Lab Sample ID: 590-14196-2**
Date Collected: 11/04/20 13:16 — Matrix: Solid
Date Received: 11/05/20 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29617	11/07/20 12:09	NMI	TAL SPK

Client Sample ID: CRH-CP-2 — **Lab Sample ID: 590-14196-2**
Date Collected: 11/04/20 13:16 — Matrix: Solid
Date Received: 11/05/20 13:48 — Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.343 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/11/20 21:18	JSP	TAL SPK
Total/NA	Prep	5035			9.343 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	29663	11/11/20 21:18	JSP	TAL SPK
Total/NA	Prep	3550C			15.11 g	2 mL	29632	11/09/20 14:42	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29630	11/09/20 16:56	NMI	TAL SPK
Total/NA	Prep	3550C			15.11 g	2 mL	29632	11/09/20 14:42	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		10			29630	11/09/20 19:33	NMI	TAL SPK
Total/NA	Prep	8011			10.01 g	2 mL	29618	11/07/20 12:15	NMI	TAL SPK
Total/NA	Analysis	8011		1			29619	11/07/20 13:56	NMI	TAL SPK
Total/NA	Prep	3550C			15.25 g	5 mL	29721	11/18/20 15:17	NMI	TAL SPK
Total/NA	Analysis	8082A		1			29720	11/18/20 18:55	NMI	TAL SPK
Total/NA	Prep	3550C			15.68 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 19:55	NMI	TAL SPK
Total/NA	Prep	3050B			1.37 g	50 mL	29623	11/09/20 10:52	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29649	11/10/20 11:46	JSP	TAL SPK

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-3 — **Lab Sample ID: 590-14196-3**
Date Collected: 11/04/20 13:40
Date Received: 11/05/20 13:48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-3 — **Lab Sample ID: 590-14196-3**
Date Collected: 11/04/20 13:40
Date Received: 11/05/20 13:48
Matrix: Solid
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.822 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/11/20 21:40	JSP	TAL SPK
Total/NA	Prep	3550C			15.22 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 20:36	NMI	TAL SPK

Client Sample ID: CRH-CP-4 — **Lab Sample ID: 590-14196-4**
Date Collected: 11/04/20 13:57
Date Received: 11/05/20 13:48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-4 — **Lab Sample ID: 590-14196-4**
Date Collected: 11/04/20 13:57
Date Received: 11/05/20 13:48
Matrix: Solid
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.198 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/11/20 22:22	JSP	TAL SPK
Total/NA	Prep	3550C			15.17 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 20:56	NMI	TAL SPK

Client Sample ID: CRH-CP-5 — **Lab Sample ID: 590-14196-5**
Date Collected: 11/04/20 14:35
Date Received: 11/05/20 13:48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-5 — **Lab Sample ID: 590-14196-5**
Date Collected: 11/04/20 14:35
Date Received: 11/05/20 13:48
Matrix: Solid
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.675 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/11/20 23:05	JSP	TAL SPK
Total/NA	Prep	3550C			15.76 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 21:17	NMI	TAL SPK

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Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-6
Date Collected: 11/04/20 15:05
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29617	11/07/20 12:09	NMI	TAL SPK

Client Sample ID: CRH-CP-6
Date Collected: 11/04/20 15:05
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-6
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.037 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		10	0.86 mL	43 mL	29664	11/11/20 23:26	JSP	TAL SPK
Total/NA	Prep	5035			10.037 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		10	0.86 mL	43 mL	29679	11/13/20 11:43	JSP	TAL SPK
Total/NA	Prep	3550C			15.94 g	2 mL	29632	11/09/20 14:42	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		20			29630	11/09/20 20:51	NMI	TAL SPK
Total/NA	Prep	8011			10.09 g	2 mL	29618	11/07/20 12:15	NMI	TAL SPK
Total/NA	Analysis	8011		1			29619	11/07/20 14:45	NMI	TAL SPK
Total/NA	Prep	3550C			15.10 g	5 mL	29721	11/18/20 15:17	NMI	TAL SPK
Total/NA	Analysis	8082A		1			29720	11/18/20 19:16	NMI	TAL SPK
Total/NA	Prep	3550C			15.57 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		10			29712	11/18/20 15:36	NMI	TAL SPK
Total/NA	Prep	3050B			1.70 g	50 mL	29623	11/09/20 10:52	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29649	11/10/20 11:50	JSP	TAL SPK

Client Sample ID: CRH-CP-7
Date Collected: 11/04/20 15:19
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-7
Date Collected: 11/04/20 15:19
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-7
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.054 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/11/20 23:47	JSP	TAL SPK
Total/NA	Prep	3550C			15.05 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 22:18	NMI	TAL SPK

Client Sample ID: CRH-CP-8
Date Collected: 11/04/20 15:35
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Client Sample ID: CRH-CP-8
Date Collected: 11/04/20 15:35
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-8
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.584 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/12/20 00:08	JSP	TAL SPK
Total/NA	Prep	3550C			15.02 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 22:39	NMI	TAL SPK

Client Sample ID: CRH-CP-9
Date Collected: 11/04/20 08:42
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-9
Date Collected: 11/04/20 08:42
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-9
Matrix: Solid
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.471 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/12/20 00:30	JSP	TAL SPK
Total/NA	Prep	3550C			15.26 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 22:59	NMI	TAL SPK

Client Sample ID: CRH-CP-10
Date Collected: 11/04/20 10:20
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29621	11/09/20 08:23	AMB	TAL SPK

Client Sample ID: CRH-CP-10
Date Collected: 11/04/20 10:20
Date Received: 11/05/20 13:48

Lab Sample ID: 590-14196-10
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.081 g	10 mL	29661	11/11/20 13:31	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29664	11/12/20 00:51	JSP	TAL SPK
Total/NA	Prep	3550C			15.05 g	5 mL	29677	11/12/20 16:10	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29670	11/12/20 23:19	NMI	TAL SPK

Laboratory References:
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550C	Solid	PCB-1262
8082A	3550C	Solid	PCB-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-Dx	3550C	Solid	Residual Range Organics (RRO) (C25-C36)

Method Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14196-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SPK
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK
8011	Microextraction	SW846	TAL SPK

Protocol References:

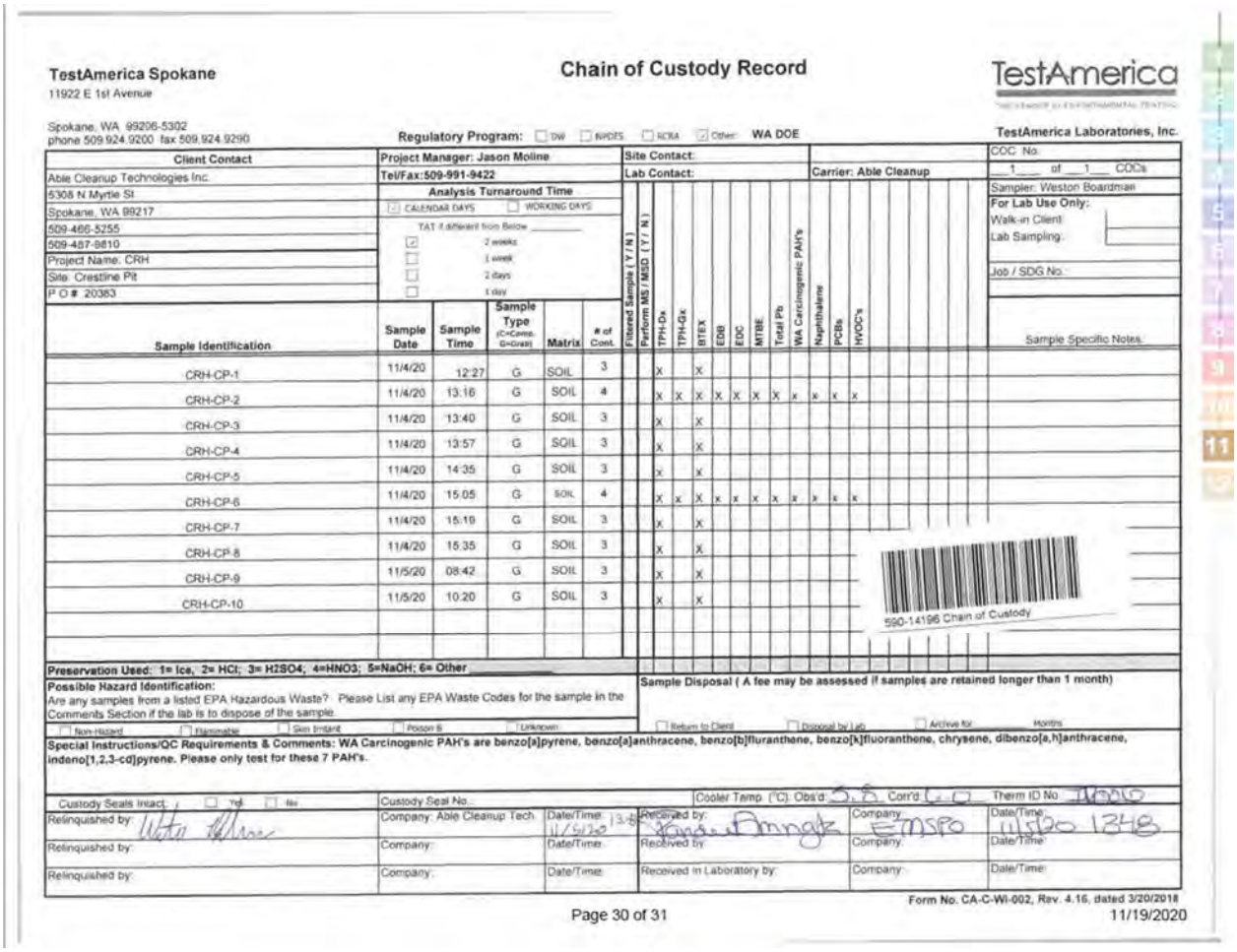
EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



TestAmerica Spokane
11922 E 1st Avenue
Spokane, WA 99206-5302
phone 509.924.9200 fax 509.924.9290

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: WA DOE

Client Contact	Project Manager: Jason Moline	Site Contact:	Carrier: Able Cleanup	COC No:
Able Cleanup Technologies Inc.	Tel/Fax:509-991-9422	Lab Contact:		1 of 1 COCs
5308 N Myrtle St	Analysis Turnaround Time			Sampler: Weston Boardman
Spokane, WA 99217	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
509-466-5255	TAT if different from Below			Walk-in Client:
509-487-9810	☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: CRH				Job / SDG No.:
Site: Crestline Pit				
P O # 20383				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH-Dx	TPH-Gx	BTEX	EDB	EDC	MTBE	Total Pb	WA Carcinogenic PAH's	Naphthalene	PCBs	HVOC's	Sample Specific Notes:
CRH-CP-1	11/4/20	12:27	G	SOIL	3			X		X									
CRH-CP-2	11/4/20	13:16	G	SOIL	4			X	X	X	X	X	X	X	x	x	x	x	
CRH-CP-3	11/4/20	13:40	G	SOIL	3			X		X									
CRH-CP-4	11/4/20	13:57	G	SOIL	3			X		X									
CRH-CP-5	11/4/20	14:35	G	SOIL	3			X		X									
CRH-CP-6	11/4/20	15:05	G	SOIL	4			X	X	X	X	X	X	X	x	x	x	x	
CRH-CP-7	11/4/20	15:19	G	SOIL	3			X		X									
CRH-CP-8	11/4/20	15:35	G	SOIL	3			X		X									
CRH-CP-9	11/5/20	08:42	G	SOIL	3			X		X									
CRH-CP-10	11/5/20	10:20	G	SOIL	3			X		X									

590-14196 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments: WA Carcinogenic PAH's are benzo[a]pyrene, benzo[a]anthracene, benzo[b]fluranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, indeno[1,2,3-cd]pyrene. Please only test for these 7 PAH's.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 5.5 Corr'd: 6.0	Therm ID No: IR010
Relinquished by:	Company: Able Cleanup Tech	Date/Time: 11/5/20 1345	Received by:	Company: EMSPO	Date/Time: 11/5/20 1348
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.16, dated 3/20/2018

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11/19/2020

Login Sample Receipt Checklist

Client: Able Clean-Up Technologies, Inc

Job Number: 590-14196-1

Login Number: 14196
List Number: 1
Creator: Arrington, Randee E

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins TestAmerica, Spokane

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11/19/2020

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-14266-1
Client Project/Site: CRH

For:
Able Clean-Up Technologies, Inc
5308 N Myrtle St.
PO BOX 6185
Spokane, Washington 99217

Attn: Kipp E Silver

Randee Arrington

Authorized for release by:
12/8/2020 2:37:49 PM

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Job ID: 590-14266-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 11/20/2020 4:49 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14266-1	CRH-CP-11	Solid	11/20/20 13:50	11/20/20 16:49	
590-14266-2	CRH-CP-10A	Solid	11/20/20 14:05	11/20/20 16:49	
590-14266-3	CRH-CP-5A	Solid	11/20/20 14:10	11/20/20 16:49	

Definitions/Glossary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-11
Date Collected: 11/20/20 13:50
Date Received: 11/20/20 16:49

Lab Sample ID: 590-14266-1
Matrix: Solid
Percent Solids: 92.1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
Benzene	ND		0.029		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
Ethylbenzene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
m,p-Xylene	ND		0.58		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
Methyl tert-butyl ether	ND		0.073		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
o-Xylene	ND		0.29		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
Toluene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1
Xylenes, Total	ND		0.87		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 129*	*11/24/20 10:59*	*11/24/20 18:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 122*	*11/24/20 10:59*	*11/24/20 18:31*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*	*11/24/20 10:59*	*11/24/20 18:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*11/24/20 10:59*	*11/24/20 18:31*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		7.3		mg/Kg	☼	11/24/20 10:59	11/24/20 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*41.5 - 162*	*11/24/20 10:59*	*11/24/20 18:31*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Acenaphthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Acenaphthylene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Chrysene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Fluorene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Naphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Phenanthrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1
Pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*56 - 120*	*12/01/20 12:10*	*12/01/20 21:54*	*1*
Nitrobenzene-d5	*62*		*43 - 120*	*12/01/20 12:10*	*12/01/20 21:54*	*1*
p-Terphenyl-d14	*89*		*74 - 136*	*12/01/20 12:10*	*12/01/20 21:54*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.086		ug/Kg	☼	11/24/20 14:09	11/24/20 17:24	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-11

Lab Sample ID: 590-14266-1
Date Collected: 11/20/20 13:50
Matrix: Solid
Date Received: 11/20/20 16:49
Percent Solids: 92.1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		11		mg/Kg	☼	11/25/20 09:32	11/25/20 15:07	1
Residual Range Organics (RRO) (C25-C36)	ND		27		mg/Kg	☼	11/25/20 09:32	11/25/20 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*11/25/20 09:32*	*11/25/20 15:07*	*1*
n-Triacontane-d62	*94*		*50 - 150*	*11/25/20 09:32*	*11/25/20 15:07*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		2.5		mg/Kg	☼	12/07/20 09:01	12/07/20 15:02	1

Client Sample ID: CRH-CP-10A

Lab Sample ID: 590-14266-2
Date Collected: 11/20/20 14:05
Matrix: Solid
Date Received: 11/20/20 16:49
Percent Solids: 93.2

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,1,2,2-Tetrachloroethane	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,1,2-Trichloroethane	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,1-Dichloroethane	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,1-Dichloroethene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,2-Dichlorobenzene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,2-Dichloroethane	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,2-Dichloropropane	ND		0.17		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,3-Dichlorobenzene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
1,4-Dichlorobenzene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Benzene	ND		0.029		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Bromodichloromethane	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Bromoform	ND		0.29		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Bromomethane	ND		0.72		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Carbon tetrachloride	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Chlorobenzene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Chloroethane	ND		0.29		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Chloroform	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Chloromethane	ND		0.72		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
cis-1,2-Dichloroethene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
cis-1,3-Dichloropropene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Dibromochloromethane	ND		0.29		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Ethylbenzene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
m,p-Xylene	ND		0.57		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Methyl tert-butyl ether	ND		0.072		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Methylene Chloride	ND		0.50		mg/Kg	☼	11/24/20 10:59	12/02/20 12:08	1
o-Xylene	ND		0.29		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Tetrachloroethene	ND		0.057		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Toluene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
trans-1,2-Dichloroethene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
trans-1,3-Dichloropropene	ND		0.14		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Trichloroethene	ND		0.036		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-10A
Date Collected: 11/20/20 14:05
Date Received: 11/20/20 16:49

Lab Sample ID: 590-14266-2
Matrix: Solid
Percent Solids: 93.2

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.29		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Vinyl chloride	ND		0.086		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1
Xylenes, Total	ND		0.86		mg/Kg	☼	11/24/20 10:59	11/24/20 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 129*	*11/24/20 10:59*	*11/24/20 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 129*	*11/24/20 10:59*	*12/02/20 12:08*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*	*11/24/20 10:59*	*11/24/20 19:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*	*11/24/20 10:59*	*12/02/20 12:08*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*11/24/20 10:59*	*11/24/20 19:12*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*11/24/20 10:59*	*12/02/20 12:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*11/24/20 10:59*	*11/24/20 19:12*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*11/24/20 10:59*	*12/02/20 12:08*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Acenaphthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Acenaphthylene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Chrysene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Fluorene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Naphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Phenanthrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1
Pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*56 - 120*	*12/01/20 12:10*	*12/01/20 22:20*	*1*
Nitrobenzene-d5	*65*		*43 - 120*	*12/01/20 12:10*	*12/01/20 22:20*	*1*
p-Terphenyl-d14	*92*		*74 - 136*	*12/01/20 12:10*	*12/01/20 22:20*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.085		ug/Kg	☼	11/24/20 14:09	11/24/20 17:40	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1221	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1232	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1242	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1248	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-10A

Lab Sample ID: 590-14266-2
Date Collected: 11/20/20 14:05
Matrix: Solid
Date Received: 11/20/20 16:49
Percent Solids: 93.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1260	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1268	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1
PCB-1262	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*22 - 131*	*12/07/20 13:21*	*12/07/20 15:23*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*32 - 133*	*12/07/20 13:21*	*12/07/20 15:23*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		2.5		mg/Kg	☼	12/07/20 09:01	12/07/20 15:24	1

Client Sample ID: CRH-CP-5A

Lab Sample ID: 590-14266-3
Date Collected: 11/20/20 14:10
Matrix: Solid
Date Received: 11/20/20 16:49
Percent Solids: 93.1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,1,2,2-Tetrachloroethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,1,2-Trichloroethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,1-Dichloroethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,1-Dichloroethene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,2-Dichlorobenzene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,2-Dichloroethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,2-Dichloropropane	ND		0.18		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,3-Dichlorobenzene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
1,4-Dichlorobenzene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Benzene	ND		0.030		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Bromodichloromethane	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Bromoform	ND		0.30		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Bromomethane	ND		0.76		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Carbon tetrachloride	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Chlorobenzene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Chloroethane	ND		0.30		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Chloroform	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Chloromethane	ND		0.76		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
cis-1,2-Dichloroethene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
cis-1,3-Dichloropropene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Dibromochloromethane	ND		0.30		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Ethylbenzene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
m,p-Xylene	ND		0.61		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Methyl tert-butyl ether	ND		0.076		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Methylene Chloride	ND		0.53		mg/Kg	☼	11/24/20 10:59	12/02/20 12:28	1
o-Xylene	ND		0.30		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Tetrachloroethene	ND		0.061		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Toluene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
trans-1,2-Dichloroethene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
trans-1,3-Dichloropropene	ND		0.15		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-5A
Date Collected: 11/20/20 14:10
Date Received: 11/20/20 16:49

Lab Sample ID: 590-14266-3
Matrix: Solid
Percent Solids: 93.1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.038		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Trichlorofluoromethane	ND		0.30		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Vinyl chloride	ND		0.091		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1
Xylenes, Total	ND		0.91		mg/Kg	☼	11/24/20 10:59	11/24/20 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 129*	*11/24/20 10:59*	*11/24/20 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*	*11/24/20 10:59*	*12/02/20 12:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*	*11/24/20 10:59*	*11/24/20 19:54*	*1*
4-Bromofluorobenzene (Surr)	*87*		*76 - 122*	*11/24/20 10:59*	*12/02/20 12:28*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*11/24/20 10:59*	*11/24/20 19:54*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*11/24/20 10:59*	*12/02/20 12:28*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*11/24/20 10:59*	*11/24/20 19:54*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*11/24/20 10:59*	*12/02/20 12:28*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Acenaphthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Acenaphthylene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Benzo[a]anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Benzo[a]pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Benzo[b]fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Benzo[g,h,i]perylene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Benzo[k]fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Chrysene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Dibenz(a,h)anthracene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Fluoranthene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Fluorene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Naphthalene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Phenanthrene	40		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1
Pyrene	ND		10		ug/Kg	☼	12/01/20 12:10	12/01/20 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*56 - 120*	*12/01/20 12:10*	*12/01/20 22:46*	*1*
Nitrobenzene-d5	*54*		*43 - 120*	*12/01/20 12:10*	*12/01/20 22:46*	*1*
p-Terphenyl-d14	*85*		*74 - 136*	*12/01/20 12:10*	*12/01/20 22:46*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.081		ug/Kg	☼	11/24/20 14:09	11/24/20 17:56	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1221	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1232	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1242	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-5A
Date Collected: 11/20/20 14:10
Date Received: 11/20/20 16:49

Lab Sample ID: 590-14266-3
Matrix: Solid
Percent Solids: 93.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1254	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1260	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1268	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1
PCB-1262	ND		11		ug/Kg	☼	12/07/20 13:21	12/07/20 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*22 - 131*	*12/07/20 13:21*	*12/07/20 16:25*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*32 - 133*	*12/07/20 13:21*	*12/07/20 16:25*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		2.5		mg/Kg	☼	12/07/20 09:01	12/07/20 15:28	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-29779/1-A
Matrix: Solid
Analysis Batch: 29788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,1,2,2-Tetrachloroethane	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,1,2-Trichloroethane	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,1-Dichloroethane	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,1-Dichloroethene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,2-Dichlorobenzene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,2-Dichloroethane	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,2-Dichloropropane	ND		0.12		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,3-Dichlorobenzene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
1,4-Dichlorobenzene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Benzene	ND		0.020		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Bromodichloromethane	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Bromoform	ND		0.20		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Bromomethane	ND		0.50		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Carbon tetrachloride	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Chlorobenzene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Chloroethane	ND		0.20		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Chloroform	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Chloromethane	ND		0.50		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
cis-1,2-Dichloroethene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
cis-1,3-Dichloropropene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Dibromochloromethane	ND		0.20		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Ethylbenzene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
m,p-Xylene	ND		0.40		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Methyl tert-butyl ether	ND		0.050		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Methylene Chloride	ND		0.35		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
o-Xylene	ND		0.20		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Tetrachloroethene	ND		0.040		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Toluene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
trans-1,2-Dichloroethene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
trans-1,3-Dichloropropene	ND		0.10		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Trichloroethene	ND		0.025		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Trichlorofluoromethane	ND		0.20		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Vinyl chloride	ND		0.060		mg/Kg		11/24/20 10:59	11/24/20 12:38	1
Xylenes, Total	ND		0.60		mg/Kg		11/24/20 10:59	11/24/20 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 120*	*11/24/20 10:59*	*11/24/20 12:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*	*11/24/20 10:59*	*11/24/20 12:38*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*	*11/24/20 10:59*	*11/24/20 12:38*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*11/24/20 10:59*	*11/24/20 12:38*	*1*

Lab Sample ID: LCS 590-29779/2-A
Matrix: Solid
Analysis Batch: 29788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.587		mg/Kg		117	80 - 138

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-29779/2-A
Matrix: Solid
Analysis Batch: 29788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	0.500	0.549		mg/Kg		110	75 - 128
1,1,2-Trichloroethane	0.500	0.548		mg/Kg		110	80 - 125
1,1-Dichloroethane	0.500	0.544		mg/Kg		109	80 - 129
1,1-Dichloroethene	0.500	0.574		mg/Kg		115	73 - 135
1,2-Dichlorobenzene	0.500	0.559		mg/Kg		112	80 - 124
1,2-Dichloroethane	0.500	0.546		mg/Kg		109	80 - 129
1,2-Dichloropropane	0.500	0.531		mg/Kg		106	75 - 129
1,3-Dichlorobenzene	0.500	0.568		mg/Kg		114	80 - 130
1,4-Dichlorobenzene	0.500	0.556		mg/Kg		111	80 - 125
Benzene	0.500	0.596		mg/Kg		119	76 - 129
Bromodichloromethane	0.500	0.583		mg/Kg		117	80 - 128
Bromoform	0.500	0.557		mg/Kg		111	72 - 133
Bromomethane	0.500	0.400	J	mg/Kg		80	56 - 138
Carbon tetrachloride	0.500	0.615		mg/Kg		123	80 - 135
Chlorobenzene	0.500	0.576		mg/Kg		115	80 - 129
Chloroethane	0.500	0.497		mg/Kg		99	50 - 142
Chloroform	0.500	0.592		mg/Kg		118	80 - 130
Chloromethane	0.500	0.461	J	mg/Kg		92	46 - 132
cis-1,2-Dichloroethene	0.500	0.558		mg/Kg		112	80 - 135
cis-1,3-Dichloropropene	0.500	0.552		mg/Kg		110	80 - 126
Dibromochloromethane	0.500	0.542		mg/Kg		108	78 - 127
Ethylbenzene	0.500	0.568		mg/Kg		114	77 - 133
m,p-Xylene	0.500	0.583		mg/Kg		117	78 - 130
Methyl tert-butyl ether	0.500	0.551		mg/Kg		110	80 - 130
Methylene Chloride	0.500	0.387		mg/Kg		77	38 - 150
o-Xylene	0.500	0.577		mg/Kg		115	77 - 129
Tetrachloroethene	0.500	0.598		mg/Kg		120	77 - 134
Toluene	0.500	0.555		mg/Kg		111	77 - 131
trans-1,2-Dichloroethene	0.500	0.552		mg/Kg		110	80 - 133
trans-1,3-Dichloropropene	0.500	0.535		mg/Kg		107	80 - 124
Trichloroethene	0.500	0.603		mg/Kg		121	79 - 133
Trichlorofluoromethane	0.500	0.462		mg/Kg		92	64 - 133
Vinyl chloride	0.500	0.503		mg/Kg		101	51 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 120*
4-Bromofluorobenzene (Surr)	*110*		*76 - 122*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 590-14266-1 DU
Matrix: Solid
Analysis Batch: 29788

Client Sample ID: CRH-CP-11
Prep Type: Total/NA
Prep Batch: 29779

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2-Dichloroethane	ND		ND		mg/Kg	☼	NC	25
Benzene	ND		ND		mg/Kg	☼	NC	25
Ethylbenzene	ND		ND		mg/Kg	☼	NC	25

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-14266-1 DU
Matrix: Solid
Analysis Batch: 29788

Client Sample ID: CRH-CP-11
Prep Type: Total/NA
Prep Batch: 29779

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
m,p-Xylene	ND			ND		mg/Kg	☼			NC	23
Methyl tert-butyl ether	ND			ND		mg/Kg	☼			NC	25
o-Xylene	ND			ND		mg/Kg	☼			NC	25
Toluene	ND			ND		mg/Kg	☼			NC	25
Xylenes, Total	ND			ND		mg/Kg	☼			NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*76 - 122*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 590-29861/1-A
Matrix: Solid
Analysis Batch: 29856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,1,2,2-Tetrachloroethane	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,1,2-Trichloroethane	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,1-Dichloroethane	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,1-Dichloroethene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,2-Dichlorobenzene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,2-Dichloroethane	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,2-Dichloropropane	ND		0.12		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,3-Dichlorobenzene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
1,4-Dichlorobenzene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Benzene	ND		0.020		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Bromodichloromethane	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Bromoform	ND		0.20		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Bromomethane	ND		0.50		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Carbon tetrachloride	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Chlorobenzene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Chloroethane	ND		0.20		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Chloroform	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Chloromethane	ND		0.50		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
cis-1,2-Dichloroethene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
cis-1,3-Dichloropropene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Dibromochloromethane	ND		0.20		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Ethylbenzene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
m,p-Xylene	ND		0.40		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Methyl tert-butyl ether	ND		0.050		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Methylene Chloride	ND		0.35		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
o-Xylene	ND		0.20		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Tetrachloroethene	ND		0.040		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Toluene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
trans-1,2-Dichloroethene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
trans-1,3-Dichloropropene	ND		0.10		mg/Kg		12/02/20 12:02	12/02/20 12:50	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-29861/1-A
Matrix: Solid
Analysis Batch: 29856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29861

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.025		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Trichlorofluoromethane	ND		0.20		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Vinyl chloride	ND		0.060		mg/Kg		12/02/20 12:02	12/02/20 12:50	1
Xylenes, Total	ND		0.60		mg/Kg		12/02/20 12:02	12/02/20 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 129*	*12/02/20 12:02*	*12/02/20 12:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 122*	*12/02/20 12:02*	*12/02/20 12:50*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*	*12/02/20 12:02*	*12/02/20 12:50*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*12/02/20 12:02*	*12/02/20 12:50*	*1*

Lab Sample ID: LCS 590-29861/2-A
Matrix: Solid
Analysis Batch: 29856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.500	0.568		mg/Kg		114	80 - 138
1,1,2,2-Tetrachloroethane	0.500	0.491		mg/Kg		98	75 - 128
1,1,2-Trichloroethane	0.500	0.539		mg/Kg		108	80 - 125
1,1-Dichloroethane	0.500	0.511		mg/Kg		102	80 - 129
1,1-Dichloroethene	0.500	0.503		mg/Kg		101	73 - 135
1,2-Dichlorobenzene	0.500	0.558		mg/Kg		112	80 - 124
1,2-Dichloroethane	0.500	0.519		mg/Kg		104	80 - 129
1,2-Dichloropropane	0.500	0.510		mg/Kg		102	75 - 129
1,3-Dichlorobenzene	0.500	0.558		mg/Kg		112	80 - 130
1,4-Dichlorobenzene	0.500	0.548		mg/Kg		110	80 - 125
Benzene	0.500	0.574		mg/Kg		115	76 - 129
Bromodichloromethane	0.500	0.537		mg/Kg		107	80 - 128
Bromoform	0.500	0.594		mg/Kg		119	72 - 133
Bromomethane	0.500	0.425	J	mg/Kg		85	56 - 138
Carbon tetrachloride	0.500	0.584		mg/Kg		117	80 - 135
Chlorobenzene	0.500	0.590		mg/Kg		118	80 - 129
Chloroethane	0.500	0.405		mg/Kg		81	50 - 142
Chloroform	0.500	0.555		mg/Kg		111	80 - 130
Chloromethane	0.500	0.398	J	mg/Kg		80	46 - 132
cis-1,2-Dichloroethene	0.500	0.541		mg/Kg		108	80 - 135
cis-1,3-Dichloropropene	0.500	0.550		mg/Kg		110	80 - 126
Dibromochloromethane	0.500	0.546		mg/Kg		109	78 - 127
Ethylbenzene	0.500	0.578		mg/Kg		116	77 - 133
m,p-Xylene	0.500	0.592		mg/Kg		118	78 - 130
Methyl tert-butyl ether	0.500	0.521		mg/Kg		104	80 - 130
Methylene Chloride	0.500	0.326	J	mg/Kg		65	38 - 150
o-Xylene	0.500	0.597		mg/Kg		119	77 - 129
Tetrachloroethene	0.500	0.643		mg/Kg		129	77 - 134
Toluene	0.500	0.577		mg/Kg		115	77 - 131
trans-1,2-Dichloroethene	0.500	0.526		mg/Kg		105	80 - 133
trans-1,3-Dichloropropene	0.500	0.555		mg/Kg		111	80 - 124
Trichloroethene	0.500	0.617		mg/Kg		123	79 - 133

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-29861/2-A
Matrix: Solid
Analysis Batch: 29856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	0.500	0.448		mg/Kg		90	64 - 133
Vinyl chloride	0.500	0.461		mg/Kg		92	51 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 129*
4-Bromofluorobenzene (Surr)	*100*		*76 - 122*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-29779/1-A
Matrix: Solid
Analysis Batch: 29787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		11/24/20 10:59	11/24/20 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*41.5 - 162*	*11/24/20 10:59*	*11/24/20 12:38*	*1*

Lab Sample ID: LCS 590-29779/3-A
Matrix: Solid
Analysis Batch: 29787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29779

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*41.5 - 162*

Lab Sample ID: 590-14266-1 DU
Matrix: Solid
Analysis Batch: 29787

Client Sample ID: CRH-CP-11
Prep Type: Total/NA
Prep Batch: 29779

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline	ND		ND		mg/Kg		NC	32.3

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*41.5 - 162*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-29841/1-A
Matrix: Solid
Analysis Batch: 29840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
2-Methylnaphthalene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Acenaphthene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 590-29841/1-A
Matrix: Solid
Analysis Batch: 29840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Anthracene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Benzo[a]anthracene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Benzo[a]pyrene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Benzo[b]fluoranthene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Benzo[g,h,i]perylene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Benzo[k]fluoranthene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Chrysene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Dibenz(a,h)anthracene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Fluoranthene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Fluorene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Indeno[1,2,3-cd]pyrene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Naphthalene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Phenanthrene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1
Pyrene	ND		10		ug/Kg		12/01/20 12:10	12/01/20 13:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		56 - 120	12/01/20 12:10	12/01/20 13:11	1
Nitrobenzene-d5	69		43 - 120	12/01/20 12:10	12/01/20 13:11	1
p-Terphenyl-d14	99		74 - 136	12/01/20 12:10	12/01/20 13:11	1

Lab Sample ID: LCS 590-29841/2-A
Matrix: Solid
Analysis Batch: 29840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	267	202		ug/Kg		76	55 - 120
2-Methylnaphthalene	267	211		ug/Kg		79	48 - 120
Acenaphthene	267	228		ug/Kg		85	53 - 120
Acenaphthylene	267	235		ug/Kg		88	59 - 120
Anthracene	267	238		ug/Kg		89	60 - 129
Benzo[a]anthracene	267	285		ug/Kg		107	61 - 125
Benzo[a]pyrene	267	253		ug/Kg		95	60 - 120
Benzo[b]fluoranthene	267	249		ug/Kg		93	67 - 127
Benzo[g,h,i]perylene	267	256		ug/Kg		96	58 - 129
Benzo[k]fluoranthene	267	248		ug/Kg		93	63 - 127
Chrysene	267	268		ug/Kg		101	67 - 127
Dibenz(a,h)anthracene	267	247		ug/Kg		93	60 - 128
Fluoranthene	267	267		ug/Kg		100	63 - 127
Fluorene	267	235		ug/Kg		88	63 - 120
Indeno[1,2,3-cd]pyrene	267	254		ug/Kg		95	63 - 128
Naphthalene	267	194		ug/Kg		73	39 - 120
Phenanthrene	267	239		ug/Kg		90	65 - 121
Pyrene	267	253		ug/Kg		95	68 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	81		56 - 120
Nitrobenzene-d5	69		43 - 120

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-29841/2-A
Matrix: Solid
Analysis Batch: 29840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29841

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl-d14	98		74 - 136

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 590-29791/2-A
Matrix: Solid
Analysis Batch: 29794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29791

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.080		ug/Kg		11/24/20 14:09	11/24/20 15:31	1

Lab Sample ID: LCS 590-29791/3-A
Matrix: Solid
Analysis Batch: 29794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	1.00	0.992		ug/Kg		99	60 - 140

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 590-29896/1-A
Matrix: Solid
Analysis Batch: 29895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29896

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1221	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1232	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1242	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1248	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1254	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1260	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1268	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1
PCB-1262	ND		10		ug/Kg		12/07/20 13:21	12/07/20 14:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		22 - 131	12/07/20 13:21	12/07/20 14:41	1
DCB Decachlorobiphenyl (Surr)	110		32 - 133	12/07/20 13:21	12/07/20 14:41	1

Lab Sample ID: LCS 590-29896/2-A
Matrix: Solid
Analysis Batch: 29895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29896

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	66.7	65.9		ug/Kg		99	55 - 136
PCB-1260	66.7	65.3		ug/Kg		98	63 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	100		22 - 131

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 590-29896/2-A
Matrix: Solid
Analysis Batch: 29895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29896

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	102		32 - 133

Lab Sample ID: 590-14266-2 MS
Matrix: Solid
Analysis Batch: 29895

Client Sample ID: CRH-CP-10A
Prep Type: Total/NA
Prep Batch: 29896

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		69.0	47.1		ug/Kg	☼	68	55 - 136		
PCB-1260	ND		69.0	50.7		ug/Kg	☼	73	63 - 143		

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	73		22 - 131
DCB Decachlorobiphenyl (Surr)	86		32 - 133

Lab Sample ID: 590-14266-2 MSD
Matrix: Solid
Analysis Batch: 29895

Client Sample ID: CRH-CP-10A
Prep Type: Total/NA
Prep Batch: 29896

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		68.6	45.0		ug/Kg	☼	66	55 - 136	4	21
PCB-1260	ND		68.6	47.6		ug/Kg	☼	69	63 - 143	6	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	70		22 - 131
DCB Decachlorobiphenyl (Surr)	83		32 - 133

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-29802/1-A
Matrix: Solid
Analysis Batch: 29795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		11/25/20 09:32	11/25/20 10:57	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		11/25/20 09:32	11/25/20 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	11/25/20 09:32	11/25/20 10:57	1
n-Triacontane-d62	90		50 - 150	11/25/20 09:32	11/25/20 10:57	1

Lab Sample ID: LCS 590-29802/2-A
Matrix: Solid
Analysis Batch: 29795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (DRO) (C10-C25)	66.7	57.2		mg/Kg		86	50 - 150		

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 590-29802/2-A
Matrix: Solid
Analysis Batch: 29795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Residual Range Organics (RRO) (C25-C36)	66.7	56.6		mg/Kg		85	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*95*		*50 - 150*
n-Triacontane-d62	*95*		*50 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-29893/2-A
Matrix: Solid
Analysis Batch: 29909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		12/07/20 09:01	12/07/20 14:58	1

Lab Sample ID: LCS 590-29893/1-A
Matrix: Solid
Analysis Batch: 29909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	53.1		mg/Kg		106	80 - 120

Lab Sample ID: 590-14266-1 MS
Matrix: Solid
Analysis Batch: 29909

Client Sample ID: CRH-CP-11
Prep Type: Total/NA
Prep Batch: 29893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	15		54.3	70.4		mg/Kg	☼	101	75 - 125

Lab Sample ID: 590-14266-1 MSD
Matrix: Solid
Analysis Batch: 29909

Client Sample ID: CRH-CP-11
Prep Type: Total/NA
Prep Batch: 29893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	15		54.3	66.8		mg/Kg	☼	95	75 - 125	5	20

Lab Sample ID: 590-14266-1 DU
Matrix: Solid
Analysis Batch: 29909

Client Sample ID: CRH-CP-11
Prep Type: Total/NA
Prep Batch: 29893

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	15		15.6		mg/Kg	☼	2	20

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-11 — **Lab Sample ID: 590-14266-1**
Date Collected: 11/20/20 13:50 — Matrix: Solid
Date Received: 11/20/20 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29759	11/23/20 10:53	NMI	TAL SPK

Client Sample ID: CRH-CP-11 — **Lab Sample ID: 590-14266-1**
Date Collected: 11/20/20 13:50 — Matrix: Solid
Date Received: 11/20/20 16:49 — Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.947 g	10 mL	29779	11/24/20 10:59	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29788	11/24/20 18:31	JSP	TAL SPK
Total/NA	Prep	5035			7.947 g	10 mL	29779	11/24/20 10:59	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	29787	11/24/20 18:31	JSP	TAL SPK
Total/NA	Prep	3550C			15.60 g	2 mL	29841	12/01/20 12:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29840	12/01/20 21:54	NMI	TAL SPK
Total/NA	Prep	8011			10.05 g	2 mL	29791	11/24/20 14:09	NMI	TAL SPK
Total/NA	Analysis	8011		1			29794	11/24/20 17:24	NMI	TAL SPK
Total/NA	Prep	3550C			15.29 g	5 mL	29802	11/25/20 09:32	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			29795	11/25/20 15:07	NMI	TAL SPK
Total/NA	Prep	3050B			1.33 g	50 mL	29893	12/07/20 09:01	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29909	12/07/20 15:02	JSP	TAL SPK

Client Sample ID: CRH-CP-10A — **Lab Sample ID: 590-14266-2**
Date Collected: 11/20/20 14:05 — Matrix: Solid
Date Received: 11/20/20 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29759	11/23/20 10:53	NMI	TAL SPK

Client Sample ID: CRH-CP-10A — **Lab Sample ID: 590-14266-2**
Date Collected: 11/20/20 14:05 — Matrix: Solid
Date Received: 11/20/20 16:49 — Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.881 g	10 mL	29779	11/24/20 10:59	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29788	11/24/20 19:12	JSP	TAL SPK
Total/NA	Prep	5035			7.881 g	10 mL	29779	11/24/20 10:59	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29856	12/02/20 12:08	JSP	TAL SPK
Total/NA	Prep	3550C			15.93 g	2 mL	29841	12/01/20 12:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29840	12/01/20 22:20	NMI	TAL SPK
Total/NA	Prep	8011			10.11 g	2 mL	29791	11/24/20 14:09	NMI	TAL SPK
Total/NA	Analysis	8011		1			29794	11/24/20 17:40	NMI	TAL SPK
Total/NA	Prep	3550C			15.23 g	5 mL	29896	12/07/20 13:21	NMI	TAL SPK
Total/NA	Analysis	8082A		1			29895	12/07/20 15:23	NMI	TAL SPK
Total/NA	Prep	3050B			1.29 g	50 mL	29893	12/07/20 09:01	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29909	12/07/20 15:24	JSP	TAL SPK

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Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Client Sample ID: CRH-CP-5A
Date Collected: 11/20/20 14:10
Date Received: 11/20/20 16:49

Lab Sample ID: 590-14266-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			29759	11/23/20 10:53	NMI	TAL SPK

Client Sample ID: CRH-CP-5A
Date Collected: 11/20/20 14:10
Date Received: 11/20/20 16:49

Lab Sample ID: 590-14266-3
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.441 g	10 mL	29779	11/24/20 10:59	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29788	11/24/20 19:54	JSP	TAL SPK
Total/NA	Prep	5035			7.441 g	10 mL	29779	11/24/20 10:59	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	29856	12/02/20 12:28	JSP	TAL SPK
Total/NA	Prep	3550C			15.52 g	2 mL	29841	12/01/20 12:10	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			29840	12/01/20 22:46	NMI	TAL SPK
Total/NA	Prep	8011			10.57 g	2 mL	29791	11/24/20 14:09	NMI	TAL SPK
Total/NA	Analysis	8011		1			29794	11/24/20 17:56	NMI	TAL SPK
Total/NA	Prep	3550C			15.13 g	5 mL	29896	12/07/20 13:21	NMI	TAL SPK
Total/NA	Analysis	8082A		1			29895	12/07/20 16:25	NMI	TAL SPK
Total/NA	Prep	3050B			1.27 g	50 mL	29893	12/07/20 09:01	AMB	TAL SPK
Total/NA	Analysis	6010D		1			29909	12/07/20 15:28	JSP	TAL SPK

Laboratory References:
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3550C	Solid	PCB-1262
8082A	3550C	Solid	PCB-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-Dx	3550C	Solid	Residual Range Organics (RRO) (C25-C36)

Method Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-14266-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SPK
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
3665A	Sulfuric Acid/Permanganate Cleanup	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK
8011	Microextraction	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

TestAmerica Spokane
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: WA DOE

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Moline	Site Contact:		COC No:
Able Cleanup Technologies Inc	Tel/Fax:509-991-9422	Lab Contact:	Carrier: Able Cleanup	1 of 1 COCs
5308 N Myrtle St	Analysis Turnaround Time			Sampler: Weston Boardman
Spokane, WA 99217	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
509-466-5255	TAT if different from Below			Walk-in Client:
509-467-8810	☐ 2 weeks			Lab Sampling:
Project Name: CRH	☐ 1 week			
Site: Crestline Pit	☐ 2 days			Job / SDG No.:
P O # 20377	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH-Dx	TPH-Gx	BTEX	EDB	EDC	MTBE	Total Pb	WA CARCINOGENIC PAH'S	Naphthalene8	PCBs	HVOC's	Sample Specific Notes:
CRH-CP-11	11/20/20	13.50	G	SOIL	3			X	X	X	X	X	X	X	X	X			
CRH-CP-10A	11/20/20	14.05	G	SOIL	3					X	X	X	X	X	X	X	X		
CRH-CP-5A	11/20/20	14.10	G	SOIL	3					X	X	X	X	X	X	X	X	X	

690-14266 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 2.7 Corr'd: 2.7	Therm ID No.: IR-006
Relinquished by:	Company: Able Cleanup Tech	Date/Time: 11/20/20 1649	Received by:	Company: TAS	Date/Time: 11/20/20 1649
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.16, dated 3/20/2018

12/8/2020

Login Sample Receipt Checklist

Client: Able Clean-Up Technologies, Inc

Job Number: 590-14266-1

Login Number: 14266
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Eurofins TestAmerica, Spokane

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eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15098-1
Client Project/Site: CRH

For:
Able Clean-Up Technologies, Inc
5308 N Myrtle St.
PO BOX 6185
Spokane, Washington 99217

Attn: Kipp E Silver

Authorized for release by:
5/12/2021 4:25:49 PM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Job ID: 590-15098-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 5/11/2021 4:54 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010D: The low level initial calibration verification (ICVL) associated with batch 590-31592 recovered above the upper control limit for Lead. The samples associated with this ICV were either >10x or non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-15098-1	CRH-CP-12	Solid	05/10/21 13:30	05/11/21 16:54	
590-15098-2	CRH-CP-13	Solid	05/10/21 14:05	05/11/21 16:54	
590-15098-3	CRH-CP-14	Solid	05/10/21 14:30	05/11/21 16:54	

Definitions/Glossary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Client Sample ID: CRH-CP-12

Lab Sample ID: 590-15098-1
Date Collected: 05/10/21 13:30
Matrix: Solid
Date Received: 05/11/21 16:54
Percent Solids: 96.7

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1
m,p-Xylene	ND		0.48		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1
o-Xylene	ND		0.24		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1
Toluene	ND		0.12		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1
Xylenes, Total	ND		0.72		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 129*	*05/11/21 12:58*	*05/11/21 14:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*	*05/11/21 12:58*	*05/11/21 14:36*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*05/11/21 12:58*	*05/11/21 14:36*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*05/11/21 12:58*	*05/11/21 14:36*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.0		mg/Kg	☼	05/11/21 12:58	05/11/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*41.5 - 162*	*05/11/21 12:58*	*05/11/21 14:36*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 12:14	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 12:14	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*53*		*33 - 120*	*05/12/21 10:27*	*05/12/21 12:14*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 10:42	05/12/21 12:59	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	05/12/21 10:42	05/12/21 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*05/12/21 10:42*	*05/12/21 12:59*	*1*
n-Triacontane-d62	*75*		*50 - 150*	*05/12/21 10:42*	*05/12/21 12:59*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.6	^1+	2.2		mg/Kg	☼	05/11/21 09:56	05/12/21 12:50	1

Client Sample ID: CRH-CP-13

Lab Sample ID: 590-15098-2
Date Collected: 05/10/21 14:05
Matrix: Solid
Date Received: 05/11/21 16:54
Percent Solids: 96.2

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Client Sample ID: CRH-CP-13

Lab Sample ID: 590-15098-2
Date Collected: 05/10/21 14:05
Matrix: Solid
Date Received: 05/11/21 16:54
Percent Solids: 96.2

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.47		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1
o-Xylene	ND		0.23		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1
Toluene	ND		0.12		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1
Xylenes, Total	ND		0.70		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 129*	*05/11/21 12:58*	*05/11/21 15:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 122*	*05/11/21 12:58*	*05/11/21 15:20*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*	*05/11/21 12:58*	*05/11/21 15:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*05/11/21 12:58*	*05/11/21 15:20*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.9		mg/Kg	☼	05/11/21 12:58	05/11/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*41.5 - 162*	*05/11/21 12:58*	*05/11/21 15:20*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 13:24	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 13:24	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*54*		*33 - 120*	*05/12/21 10:27*	*05/12/21 13:24*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		9.9		mg/Kg	☼	05/12/21 10:42	05/12/21 13:20	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 10:42	05/12/21 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*05/12/21 10:42*	*05/12/21 13:20*	*1*
n-Triacontane-d62	*73*		*50 - 150*	*05/12/21 10:42*	*05/12/21 13:20*	*1*

Client Sample ID: CRH-CP-14

Lab Sample ID: 590-15098-3
Date Collected: 05/10/21 14:30
Matrix: Solid
Date Received: 05/11/21 16:54
Percent Solids: 95.5

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1
m,p-Xylene	ND		0.46		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1
o-Xylene	ND		0.23		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1
Toluene	ND		0.12		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1
Xylenes, Total	ND		0.69		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Client Sample ID: CRH-CP-14
Date Collected: 05/10/21 14:30
Date Received: 05/11/21 16:54

Lab Sample ID: 590-15098-3
Matrix: Solid
Percent Solids: 95.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 129	05/11/21 12:58	05/11/21 16:25	1
4-Bromofluorobenzene (Surr)	100		76 - 122	05/11/21 12:58	05/11/21 16:25	1
Dibromofluoromethane (Surr)	98		80 - 120	05/11/21 12:58	05/11/21 16:25	1
Toluene-d8 (Surr)	102		80 - 120	05/11/21 12:58	05/11/21 16:25	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.8		mg/Kg	☼	05/11/21 12:58	05/11/21 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		41.5 - 162	05/11/21 12:58	05/11/21 16:25	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 13:47	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 13:47	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 10:27	05/12/21 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	64		33 - 120	05/12/21 10:27	05/12/21 13:47	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 10:42	05/12/21 13:41	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 10:42	05/12/21 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150	05/12/21 10:42	05/12/21 13:41	1
n-Triacontane-d62	72		50 - 150	05/12/21 10:42	05/12/21 13:41	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-31566/1-A
Matrix: Solid
Analysis Batch: 31563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		05/11/21 12:58	05/11/21 13:30	1
Ethylbenzene	ND		0.10		mg/Kg		05/11/21 12:58	05/11/21 13:30	1
m,p-Xylene	ND		0.40		mg/Kg		05/11/21 12:58	05/11/21 13:30	1
o-Xylene	ND		0.20		mg/Kg		05/11/21 12:58	05/11/21 13:30	1
Toluene	ND		0.10		mg/Kg		05/11/21 12:58	05/11/21 13:30	1
Xylenes, Total	ND		0.60		mg/Kg		05/11/21 12:58	05/11/21 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 129*	*05/11/21 12:58*	*05/11/21 13:30*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 122*	*05/11/21 12:58*	*05/11/21 13:30*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*05/11/21 12:58*	*05/11/21 13:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*05/11/21 12:58*	*05/11/21 13:30*	*1*

Lab Sample ID: LCS 590-31566/2-A
Matrix: Solid
Analysis Batch: 31563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.500	0.546		mg/Kg		109	76 - 129
Ethylbenzene	0.500	0.503		mg/Kg		101	77 - 126
m,p-Xylene	0.500	0.505		mg/Kg		101	78 - 130
o-Xylene	0.500	0.494		mg/Kg		99	77 - 129
Toluene	0.500	0.521		mg/Kg		104	77 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 590-15098-2 MS
Matrix: Solid
Analysis Batch: 31563

Client Sample ID: CRH-CP-13
Prep Type: Total/NA
Prep Batch: 31566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.587	0.551		mg/Kg	☼	94	76 - 129
Ethylbenzene	ND		0.587	0.517		mg/Kg	☼	88	77 - 126
m,p-Xylene	ND		0.587	0.529		mg/Kg	☼	90	78 - 130
o-Xylene	ND		0.587	0.504		mg/Kg	☼	86	77 - 129
Toluene	ND		0.587	0.535		mg/Kg	☼	91	77 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*
4-Bromofluorobenzene (Surr)	*96*		*76 - 122*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Eurofins TestAmerica, Spokane

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5/12/2021

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-15098-2 MSD
Matrix: Solid
Analysis Batch: 31563

Client Sample ID: CRH-CP-13
Prep Type: Total/NA
Prep Batch: 31566

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.587	0.589		mg/Kg	☼	100	76 - 129	7	25
Ethylbenzene	ND		0.587	0.561		mg/Kg	☼	96	77 - 126	8	25
m,p-Xylene	ND		0.587	0.547		mg/Kg	☼	93	78 - 130	3	23
o-Xylene	ND		0.587	0.543		mg/Kg	☼	93	77 - 129	7	25
Toluene	ND		0.587	0.578		mg/Kg	☼	98	77 - 131	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 590-15098-1 DU
Matrix: Solid
Analysis Batch: 31563

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31566

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	ND			ND		mg/Kg	☼			NC	25
Ethylbenzene	ND			ND		mg/Kg	☼			NC	25
m,p-Xylene	ND			ND		mg/Kg	☼			NC	23
o-Xylene	ND			ND		mg/Kg	☼			NC	25
Toluene	ND			ND		mg/Kg	☼			NC	25
Xylenes, Total	ND			ND		mg/Kg	☼			NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-31566/1-A
Matrix: Solid
Analysis Batch: 31562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		05/11/21 12:58	05/11/21 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*41.5 - 162*	*05/11/21 12:58*	*05/11/21 13:30*	*1*

Lab Sample ID: LCS 590-31566/3-A
Matrix: Solid
Analysis Batch: 31562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31566

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			50.0	53.5		mg/Kg		107	74.4 - 124		

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		41.5 - 162

Lab Sample ID: 590-15098-1 DU — **Client Sample ID: CRH-CP-12**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31562 — **Prep Batch: 31566**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline	ND			ND		mg/Kg	☼			NC	32.3

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		41.5 - 162

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-31580/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31575 — **Prep Batch: 31580**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		05/12/21 10:27	05/12/21 11:28	1
2-Methylnaphthalene	ND		10		ug/Kg		05/12/21 10:27	05/12/21 11:28	1
1-Methylnaphthalene	ND		10		ug/Kg		05/12/21 10:27	05/12/21 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		33 - 120	05/12/21 10:27	05/12/21 11:28	1

Lab Sample ID: LCS 590-31580/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31575 — **Prep Batch: 31580**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			267	225		ug/Kg		84	45 - 120		
2-Methylnaphthalene			267	240		ug/Kg		90	46 - 120		
1-Methylnaphthalene			267	234		ug/Kg		88	44 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	62		33 - 120

Lab Sample ID: 590-15098-1 MS — **Client Sample ID: CRH-CP-12**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31575 — **Prep Batch: 31580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		265	208		ug/Kg	☼	79	45 - 120		
2-Methylnaphthalene	ND		265	218		ug/Kg	☼	82	46 - 120		
1-Methylnaphthalene	ND		265	212		ug/Kg	☼	80	44 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	58		33 - 120

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 590-15098-1 MSD
Matrix: Solid
Analysis Batch: 31575

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		269	211		ug/Kg	☼	78	45 - 120	1	20
2-Methylnaphthalene	ND		269	221		ug/Kg	☼	82	48 - 120	1	20
1-Methylnaphthalene	ND		269	215		ug/Kg	☼	80	44 - 120	1	14

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*59*		*33 - 120*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-31581/1-A
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		05/12/21 10:42	05/12/21 11:57	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		05/12/21 10:42	05/12/21 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*05/12/21 10:42*	*05/12/21 11:57*	*1*
n-Triacontane-d62	*79*		*50 - 150*	*05/12/21 10:42*	*05/12/21 11:57*	*1*

Lab Sample ID: LCS 590-31581/2-A
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	64.8		mg/Kg		97	50 - 150
Residual Range Organics (RRO) (C25-C36)	66.7	69.8		mg/Kg		105	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*
n-Triacontane-d62	*86*		*50 - 150*

Lab Sample ID: 590-15098-1 DU
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31581

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	ND		ND		mg/Kg	☼	NC	40
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/Kg	☼	NC	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	*74*		*50 - 150*

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-15098-1 DU
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31581

Surrogate	DU %Recovery	DU Qualifier	Limits
n-Triacontane-d62	71		50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-31553/2-A
Matrix: Solid
Analysis Batch: 31592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	^1+	3.0		mg/Kg		05/11/21 09:56	05/12/21 12:47	1

Lab Sample ID: LCS 590-31553/1-A
Matrix: Solid
Analysis Batch: 31592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	50.0	51.8	^1+	mg/Kg		104	80 - 120		

Lab Sample ID: 590-15098-1 MS
Matrix: Solid
Analysis Batch: 31592

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	7.6	^1+	51.2	57.7	^1+	mg/Kg	☼	98	75 - 125		

Lab Sample ID: 590-15098-1 MSD
Matrix: Solid
Analysis Batch: 31592

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	7.6	^1+	50.7	56.6	^1+	mg/Kg	☼	97	75 - 125	2	20

Lab Sample ID: 590-15098-1 DU
Matrix: Solid
Analysis Batch: 31592

Client Sample ID: CRH-CP-12
Prep Type: Total/NA
Prep Batch: 31553

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	7.6	^1+	8.02	^1+	mg/Kg	☼	6	20

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Client Sample ID: CRH-CP-12
Lab Sample ID: 590-15098-1
Date Collected: 05/10/21 13:30
Matrix: Solid
Date Received: 05/11/21 16:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31578	05/12/21 10:09	NMI	TAL SPK

Client Sample ID: CRH-CP-12
Lab Sample ID: 590-15098-1
Date Collected: 05/10/21 13:30
Matrix: Solid
Date Received: 05/11/21 16:54
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.888 g	10 mL	31566	05/11/21 12:58	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31563	05/11/21 14:36	JSP	TAL SPK
Total/NA	Prep	5035			8.888 g	10 mL	31566	05/11/21 12:58	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31562	05/11/21 14:36	JSP	TAL SPK
Total/NA	Prep	3550C			15.12 g	2 mL	31580	05/12/21 10:27	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 12:14	NMI	TAL SPK
Total/NA	Prep	3550C			15.19 g	5 mL	31581	05/12/21 10:42	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 12:59	NMI	TAL SPK
Total/NA	Prep	3050B			1.44 g	50 mL	31553	05/11/21 09:56	AMB	TAL SPK
Total/NA	Analysis	6010D		1			31592	05/12/21 12:50	AMB	TAL SPK

Client Sample ID: CRH-CP-13
Lab Sample ID: 590-15098-2
Date Collected: 05/10/21 14:05
Matrix: Solid
Date Received: 05/11/21 16:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31578	05/12/21 10:09	NMI	TAL SPK

Client Sample ID: CRH-CP-13
Lab Sample ID: 590-15098-2
Date Collected: 05/10/21 14:05
Matrix: Solid
Date Received: 05/11/21 16:54
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.166 g	10 mL	31566	05/11/21 12:58	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31563	05/11/21 15:20	JSP	TAL SPK
Total/NA	Prep	5035			9.166 g	10 mL	31566	05/11/21 12:58	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31562	05/11/21 15:20	JSP	TAL SPK
Total/NA	Prep	3550C			15.48 g	2 mL	31580	05/12/21 10:27	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 13:24	NMI	TAL SPK
Total/NA	Prep	3550C			15.79 g	5 mL	31581	05/12/21 10:42	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 13:20	NMI	TAL SPK

Client Sample ID: CRH-CP-14
Lab Sample ID: 590-15098-3
Date Collected: 05/10/21 14:30
Matrix: Solid
Date Received: 05/11/21 16:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31578	05/12/21 10:09	NMI	TAL SPK

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Client Sample ID: CRH-CP-14
Date Collected: 05/10/21 14:30
Date Received: 05/11/21 16:54

Lab Sample ID: 590-15098-3
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.468 g	10 mL	31566	05/11/21 12:58	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31563	05/11/21 16:25	JSP	TAL SPK
Total/NA	Prep	5035			9.468 g	10 mL	31566	05/11/21 12:58	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31562	05/11/21 16:25	JSP	TAL SPK
Total/NA	Prep	3550C			15.26 g	2 mL	31580	05/12/21 10:27	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 13:47	NMI	TAL SPK
Total/NA	Prep	3550C			15.43 g	5 mL	31581	05/12/21 10:42	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 13:41	NMI	TAL SPK

Laboratory References:
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Eurofins TestAmerica, Spokane

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5/12/2021

Accreditation/Certification Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-Dx	3550C	Solid	Residual Range Organics (RRO) (C25-C36)

Method Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15098-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

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

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

TestAmerica Spokane
11922 E 1st Avenue

Spokane, WA 99206-5302
phone 509.924.9200 fax 509.924.9290

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/12/2021

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: WA DOE

Client Contact	Project Manager:	Site Contact:		COC No:
Able Cleanup Technologies Inc	Tel/Fax:	Lab Contact:	Carrier: Able Cleanup	1 of 1 COCs
5305 N Myrtle St	Analysis Turnaround Time			Sampler:
Spokane, WA 99217	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
509-466-5255	TAT if different from Below			Walk-in Client:
509-467-9810	☐ 2 weeks			Lab Sampling:
Project Name: CRH	☐ 1 week			
Site: Crestline Pit	☐ 2 days			Job / SDG No:
P.O.# 20384	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH-Dx	TPH-Gx	BTEX	EDB	EDC	MTBE	Total Pb	PAHs	Naphthalene	PCBs	HVOC's	WA Naphthalenes	Sample Specific Notes:
CRH-CP-12	5/10/21	13:30	G	SOIL	3			X	X	X				X					X	
CRH-CP-13		14:05						X	X	X									X	
CRH-CP-14		14:30						X	X	X									X	

590-15098 Chain of Custody

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: WA Naphthalenes includes 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No:	Cooler Temp. (°C): Obs'd: 5.1 Corr'd: 5.1	Therm ID No: CD004
Relinquished by:	Company: Able Cleanup Tech.	Date/Time: 5/10/21 16:54	Received by:	Company: TAS	Date/Time: 5/10/21 16:54
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.16, dated 3/20/2018

Login Sample Receipt Checklist

Client: Able Clean-Up Technologies, Inc

Job Number: 590-15098-1

Login Number: 15098
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not present
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15108-1
Client Project/Site: CRH

For:
Able Clean-Up Technologies, Inc
5308 N Myrtle St.
PO BOX 6185
Spokane, Washington 99217

Attn: Kipp E Silver

Authorized for release by:
5/13/2021 4:29:32 PM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Job ID: 590-15108-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The samples were received on 5/12/2021 9:26 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA
Method NWTPH-Gx: The continuing calibration verification (CCV) associated with batch 590-31596 recovered above the upper control limit for Gasoline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-15108-1	CRH-CP-15	Solid	05/11/21 15:00	05/12/21 09:26	
590-15108-2	CRH-CP-16	Solid	05/11/21 15:12	05/12/21 09:26	
590-15108-3	CRH-CP-17	Solid	05/11/21 15:18	05/12/21 09:26	
590-15108-4	CRH-CP-18	Solid	05/11/21 15:29	05/12/21 09:26	
590-15108-5	CRH-CP-19	Solid	05/11/21 16:15	05/12/21 09:26	
590-15108-6	CRH-CP-20	Solid	05/11/21 15:55	05/12/21 09:26	
590-15108-7	CRH-CP-21	Solid	05/11/21 15:45	05/12/21 09:26	
590-15108-8	CRH-CP-22	Solid	05/11/21 16:25	05/12/21 09:26	
590-15108-9	CRH-CP-23	Solid	05/11/21 16:34	05/12/21 09:26	
590-15108-10	CRH-CP-24	Solid	05/11/21 16:43	05/12/21 09:26	
590-15108-11	CRH-CP-25	Solid	05/11/21 16:50	05/12/21 09:26	

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Definitions/Glossary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-15

Lab Sample ID: 590-15108-1
Date Collected: 05/11/21 15:00
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 96.2

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1
Ethylbenzene	ND		0.11		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1
m,p-Xylene	ND		0.46		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1
o-Xylene	ND		0.23		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1
Toluene	ND		0.11		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1
Xylenes, Total	ND		0.69		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 120*	*05/12/21 13:30*	*05/12/21 22:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 122*	*05/12/21 13:30*	*05/12/21 22:52*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*05/12/21 13:30*	*05/12/21 22:52*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*05/12/21 13:30*	*05/12/21 22:52*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.7		mg/Kg	☼	05/12/21 13:30	05/12/21 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*41.5 - 162*	*05/12/21 13:30*	*05/12/21 22:52*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg	☼	05/12/21 12:56	05/12/21 14:11	1
2-Methylnaphthalene	ND		9.9		ug/Kg	☼	05/12/21 12:56	05/12/21 14:11	1
1-Methylnaphthalene	ND		9.9		ug/Kg	☼	05/12/21 12:56	05/12/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*56*		*33 - 120*	*05/12/21 12:56*	*05/12/21 14:11*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 13:08	05/12/21 16:06	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*50 - 150*	*05/12/21 13:08*	*05/12/21 16:06*	*1*
n-Triacontane-d62	*87*		*50 - 150*	*05/12/21 13:08*	*05/12/21 16:06*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.2		2.3		mg/Kg	☼	05/12/21 10:51	05/12/21 17:14	1

Client Sample ID: CRH-CP-16

Lab Sample ID: 590-15108-2
Date Collected: 05/11/21 15:12
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 97.0

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1
Ethylbenzene	ND		0.11		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-16

Lab Sample ID: 590-15108-2
Date Collected: 05/11/21 15:12
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 97.0

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.43		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1
o-Xylene	ND		0.22		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1
Toluene	ND		0.11		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1
Xylenes, Total	ND		0.65		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 120*	*05/12/21 13:30*	*05/12/21 23:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 122*	*05/12/21 13:30*	*05/12/21 23:35*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*05/12/21 13:30*	*05/12/21 23:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*05/12/21 13:30*	*05/12/21 23:35*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.4		mg/Kg	☼	05/12/21 13:30	05/12/21 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*41.5 - 162*	*05/12/21 13:30*	*05/12/21 23:35*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 14:34	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 14:34	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*54*		*33 - 120*	*05/12/21 12:56*	*05/12/21 14:34*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	15		10		mg/Kg	☼	05/12/21 13:08	05/12/21 16:26	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*05/12/21 13:08*	*05/12/21 16:26*	*1*
n-Triacontane-d62	*78*		*50 - 150*	*05/12/21 13:08*	*05/12/21 16:26*	*1*

Client Sample ID: CRH-CP-17

Lab Sample ID: 590-15108-3
Date Collected: 05/11/21 15:18
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 96.8

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.026		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1
Ethylbenzene	ND		0.13		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1
m,p-Xylene	ND		0.52		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1
o-Xylene	ND		0.26		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1
Toluene	ND		0.13		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1
Xylenes, Total	ND		0.77		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-17

Lab Sample ID: 590-15108-3
Date Collected: 05/11/21 15:18
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 96.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 120	05/12/21 13:30	05/13/21 00:39	1
4-Bromofluorobenzene (Surr)	103		76 - 122	05/12/21 13:30	05/13/21 00:39	1
Dibromofluoromethane (Surr)	103		80 - 120	05/12/21 13:30	05/13/21 00:39	1
Toluene-d8 (Surr)	100		80 - 120	05/12/21 13:30	05/13/21 00:39	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.5		mg/Kg	☼	05/12/21 13:30	05/13/21 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162	05/12/21 13:30	05/13/21 00:39	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 14:57	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 14:57	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	57		33 - 120	05/12/21 12:56	05/12/21 14:57	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	11		10		mg/Kg	☼	05/12/21 13:08	05/12/21 16:47	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	05/12/21 13:08	05/12/21 16:47	1
n-Triacontane-d62	85		50 - 150	05/12/21 13:08	05/12/21 16:47	1

Client Sample ID: CRH-CP-18

Lab Sample ID: 590-15108-4
Date Collected: 05/11/21 15:29
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 96.6

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	05/12/21 13:30	05/13/21 01:21	1
Ethylbenzene	ND		0.11		mg/Kg	☼	05/12/21 13:30	05/13/21 01:21	1
m,p-Xylene	ND		0.45		mg/Kg	☼	05/12/21 13:30	05/13/21 01:21	1
o-Xylene	ND		0.23		mg/Kg	☼	05/12/21 13:30	05/13/21 01:21	1
Toluene	ND		0.11		mg/Kg	☼	05/12/21 13:30	05/13/21 01:21	1
Xylenes, Total	ND		0.68		mg/Kg	☼	05/12/21 13:30	05/13/21 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 120	05/12/21 13:30	05/13/21 01:21	1
4-Bromofluorobenzene (Surr)	93		76 - 122	05/12/21 13:30	05/13/21 01:21	1
Dibromofluoromethane (Surr)	103		80 - 120	05/12/21 13:30	05/13/21 01:21	1
Toluene-d8 (Surr)	102		80 - 120	05/12/21 13:30	05/13/21 01:21	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-18

Lab Sample ID: 590-15108-4
Date Collected: 05/11/21 15:29
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 96.6

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	120		5.6		mg/Kg	☼	05/12/21 13:30	05/13/21 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*41.5 - 162*	*05/12/21 13:30*	*05/13/21 01:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*41.5 - 162*	*05/12/21 13:30*	*05/13/21 13:04*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	60		10		ug/Kg	☼	05/12/21 12:56	05/12/21 15:20	1
2-Methylnaphthalene	1300		10		ug/Kg	☼	05/12/21 12:56	05/12/21 15:20	1
1-Methylnaphthalene	1300		10		ug/Kg	☼	05/12/21 12:56	05/12/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*102*		*33 - 120*	*05/12/21 12:56*	*05/12/21 15:20*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	890		10		mg/Kg	☼	05/12/21 13:08	05/12/21 17:07	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*50 - 150*	*05/12/21 13:08*	*05/12/21 17:07*	*1*
n-Triacontane-d62	*88*		*50 - 150*	*05/12/21 13:08*	*05/12/21 17:07*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.0		2.4		mg/Kg	☼	05/12/21 10:51	05/12/21 17:35	1

Client Sample ID: CRH-CP-19

Lab Sample ID: 590-15108-5
Date Collected: 05/11/21 16:15
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 97.2

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1
m,p-Xylene	ND		0.48		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1
o-Xylene	ND		0.24		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1
Toluene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1
Xylenes, Total	ND		0.71		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 129*	*05/12/21 13:30*	*05/13/21 01:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 122*	*05/12/21 13:30*	*05/13/21 01:42*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*05/12/21 13:30*	*05/13/21 01:42*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*05/12/21 13:30*	*05/13/21 01:42*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.0		mg/Kg	☼	05/12/21 13:30	05/13/21 01:42	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-19

Lab Sample ID: 590-15108-5
Date Collected: 05/11/21 16:15
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 97.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		41.5 - 162	05/12/21 13:30	05/13/21 01:42	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 15:43	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 15:43	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	65		33 - 120	05/12/21 12:56	05/12/21 15:43	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		9.8		mg/Kg	☼	05/12/21 13:08	05/12/21 17:27	1
Residual Range Organics (RRO) (C25-C36)	ND		24		mg/Kg	☼	05/12/21 13:08	05/12/21 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	05/12/21 13:08	05/12/21 17:27	1
n-Triacontane-d62	78		50 - 150	05/12/21 13:08	05/12/21 17:27	1

Client Sample ID: CRH-CP-20

Lab Sample ID: 590-15108-6
Date Collected: 05/11/21 15:55
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 95.8

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1
m,p-Xylene	ND		0.47		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1
o-Xylene	ND		0.23		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1
Toluene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1
Xylenes, Total	ND		0.70		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 120	05/12/21 13:30	05/13/21 02:04	1
4-Bromofluorobenzene (Surr)	101		76 - 122	05/12/21 13:30	05/13/21 02:04	1
Dibromofluoromethane (Surr)	99		80 - 120	05/12/21 13:30	05/13/21 02:04	1
Toluene-d8 (Surr)	100		80 - 120	05/12/21 13:30	05/13/21 02:04	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.9		mg/Kg	☼	05/12/21 13:30	05/13/21 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		41.5 - 162	05/12/21 13:30	05/13/21 02:04	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 16:07	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 16:07	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 16:07	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-20

Lab Sample ID: 590-15108-6
Matrix: Solid
Date Collected: 05/11/21 15:55
Date Received: 05/12/21 09:26
Percent Solids: 95.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	54		33 - 120	05/12/21 12:56	05/12/21 16:07	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 13:08	05/12/21 17:47	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	05/12/21 13:08	05/12/21 17:47	1
n-Triacontane-d62	78		50 - 150	05/12/21 13:08	05/12/21 17:47	1

Client Sample ID: CRH-CP-21

Lab Sample ID: 590-15108-7
Matrix: Solid
Date Collected: 05/11/21 15:45
Date Received: 05/12/21 09:26
Percent Solids: 96.1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1
m,p-Xylene	ND		0.48		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1
o-Xylene	ND		0.24		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1
Toluene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1
Xylenes, Total	ND		0.72		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 129	05/12/21 13:30	05/13/21 02:25	1
4-Bromofluorobenzene (Surr)	105		76 - 122	05/12/21 13:30	05/13/21 02:25	1
Dibromofluoromethane (Surr)	100		80 - 120	05/12/21 13:30	05/13/21 02:25	1
Toluene-d8 (Surr)	102		80 - 120	05/12/21 13:30	05/13/21 02:25	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.0		mg/Kg	☼	05/12/21 13:30	05/13/21 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		41.5 - 162	05/12/21 13:30	05/13/21 02:25	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 16:30	1
2-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 16:30	1
1-Methylnaphthalene	ND		10		ug/Kg	☼	05/12/21 12:56	05/12/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		33 - 120	05/12/21 12:56	05/12/21 16:30	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 13:08	05/12/21 18:08	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-21

Lab Sample ID: 590-15108-7
Matrix: Solid
Percent Solids: 96.1

Date Collected: 05/11/21 15:45
Date Received: 05/12/21 09:26

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	05/12/21 13:08	05/12/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*05/12/21 13:08*	*05/12/21 18:08*	*1*
n-Triacontane-d62	*80*		*50 - 150*	*05/12/21 13:08*	*05/12/21 18:08*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.2		2.2		mg/Kg	☼	05/12/21 10:51	05/12/21 17:38	1

Client Sample ID: CRH-CP-22

Lab Sample ID: 590-15108-8
Matrix: Solid
Percent Solids: 95.7

Date Collected: 05/11/21 16:25
Date Received: 05/12/21 09:26

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1
m,p-Xylene	ND		0.49		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1
o-Xylene	ND		0.24		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1
Toluene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1
Xylenes, Total	ND		0.73		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 129*	*05/12/21 13:30*	*05/13/21 02:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*	*05/12/21 13:30*	*05/13/21 02:46*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*	*05/12/21 13:30*	*05/13/21 02:46*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*05/12/21 13:30*	*05/13/21 02:46*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.1		mg/Kg	☼	05/12/21 13:30	05/13/21 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*41.5 - 162*	*05/12/21 13:30*	*05/13/21 02:46*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.8		ug/Kg	☼	05/12/21 12:56	05/12/21 16:53	1
2-Methylnaphthalene	ND		9.8		ug/Kg	☼	05/12/21 12:56	05/12/21 16:53	1
1-Methylnaphthalene	ND		9.8		ug/Kg	☼	05/12/21 12:56	05/12/21 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*60*		*33 - 120*	*05/12/21 12:56*	*05/12/21 16:53*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 13:08	05/12/21 18:28	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	05/12/21 13:08	05/12/21 18:28	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-22

Lab Sample ID: 590-15108-8
Matrix: Solid
Percent Solids: 95.7

Date Collected: 05/11/21 16:25
Date Received: 05/12/21 09:26

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	05/12/21 13:08	05/12/21 18:28	1
n-Triacontane-d62	85		50 - 150	05/12/21 13:08	05/12/21 18:28	1

Client Sample ID: CRH-CP-23

Lab Sample ID: 590-15108-9
Matrix: Solid
Percent Solids: 93.8

Date Collected: 05/11/21 16:34
Date Received: 05/12/21 09:26

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1
Ethylbenzene	ND		0.13		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1
m,p-Xylene	ND		0.50		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1
o-Xylene	ND		0.25		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1
Toluene	ND		0.13		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1
Xylenes, Total	ND		0.75		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 120	05/12/21 13:30	05/13/21 03:07	1
4-Bromofluorobenzene (Surr)	103		76 - 122	05/12/21 13:30	05/13/21 03:07	1
Dibromofluoromethane (Surr)	102		80 - 120	05/12/21 13:30	05/13/21 03:07	1
Toluene-d8 (Surr)	97		80 - 120	05/12/21 13:30	05/13/21 03:07	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.3		mg/Kg	☼	05/12/21 13:30	05/13/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		41.5 - 162	05/12/21 13:30	05/13/21 03:07	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/12/21 12:56	05/12/21 17:16	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/12/21 12:56	05/12/21 17:16	1
1-Methylnaphthalene	ND		11		ug/Kg	☼	05/12/21 12:56	05/12/21 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	54		33 - 120	05/12/21 12:56	05/12/21 17:16	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		11		mg/Kg	☼	05/12/21 13:08	05/12/21 18:48	1
Residual Range Organics (RRO) (C25-C36)	ND		26		mg/Kg	☼	05/12/21 13:08	05/12/21 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	05/12/21 13:08	05/12/21 18:48	1
n-Triacontane-d62	80		50 - 150	05/12/21 13:08	05/12/21 18:48	1

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-24

Lab Sample ID: 590-15108-10
Matrix: Solid
Percent Solids: 96.5

Date Collected: 05/11/21 16:43
Date Received: 05/12/21 09:26

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1
Ethylbenzene	ND		0.13		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1
m,p-Xylene	ND		0.50		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1
o-Xylene	ND		0.25		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1
Toluene	ND		0.13		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1
Xylenes, Total	ND		0.75		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 120*	*05/12/21 13:30*	*05/13/21 03:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*	*05/12/21 13:30*	*05/13/21 03:29*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*05/12/21 13:30*	*05/13/21 03:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*05/12/21 13:30*	*05/13/21 03:29*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.3		mg/Kg	☼	05/12/21 13:30	05/13/21 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*41.5 - 162*	*05/12/21 13:30*	*05/13/21 03:29*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.8		ug/Kg	☼	05/12/21 12:56	05/12/21 17:39	1
2-Methylnaphthalene	ND		9.8		ug/Kg	☼	05/12/21 12:56	05/12/21 17:39	1
1-Methylnaphthalene	ND		9.8		ug/Kg	☼	05/12/21 12:56	05/12/21 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*53*		*33 - 120*	*05/12/21 12:56*	*05/12/21 17:39*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg	☼	05/12/21 13:08	05/12/21 19:29	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*05/12/21 13:08*	*05/12/21 19:29*	*1*
n-Triacontane-d62	*78*		*50 - 150*	*05/12/21 13:08*	*05/12/21 19:29*	*1*

Client Sample ID: CRH-CP-25

Lab Sample ID: 590-15108-11
Matrix: Solid
Percent Solids: 94.4

Date Collected: 05/11/21 16:50
Date Received: 05/12/21 09:26

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	05/12/21 13:30	05/13/21 03:50	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 03:50	1
m,p-Xylene	ND		0.47		mg/Kg	☼	05/12/21 13:30	05/13/21 03:50	1
o-Xylene	ND		0.24		mg/Kg	☼	05/12/21 13:30	05/13/21 03:50	1
Toluene	ND		0.12		mg/Kg	☼	05/12/21 13:30	05/13/21 03:50	1
Xylenes, Total	ND		0.71		mg/Kg	☼	05/12/21 13:30	05/13/21 03:50	1

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Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-25
Date Collected: 05/11/21 16:50
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-11
Matrix: Solid
Percent Solids: 94.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 120	05/12/21 13:30	05/13/21 03:50	1
4-Bromofluorobenzene (Surr)	93		76 - 122	05/12/21 13:30	05/13/21 03:50	1
Dibromofluoromethane (Surr)	102		80 - 120	05/12/21 13:30	05/13/21 03:50	1
Toluene-d8 (Surr)	97		80 - 120	05/12/21 13:30	05/13/21 03:50	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	30		5.9		mg/Kg	☼	05/12/21 13:30	05/13/21 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		41.5 - 162	05/12/21 13:30	05/13/21 03:50	1
4-Bromofluorobenzene (Surr)	98		41.5 - 162	05/12/21 13:30	05/13/21 13:26	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		11		ug/Kg	☼	05/12/21 12:56	05/12/21 18:02	1
2-Methylnaphthalene	ND		11		ug/Kg	☼	05/12/21 12:56	05/12/21 18:02	1
1-Methylnaphthalene	21		11		ug/Kg	☼	05/12/21 12:56	05/12/21 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		33 - 120	05/12/21 12:56	05/12/21 18:02	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	250		10		mg/Kg	☼	05/12/21 13:08	05/12/21 19:50	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/12/21 13:08	05/12/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	120		50 - 150	05/12/21 13:08	05/12/21 19:50	1
n-Triacontane-d62	86		50 - 150	05/12/21 13:08	05/12/21 19:50	1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.6		2.2		mg/Kg	☼	05/12/21 10:51	05/12/21 17:57	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-31591/1-A
Matrix: Solid
Analysis Batch: 31597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		05/12/21 13:30	05/12/21 21:49	1
Ethylbenzene	ND		0.10		mg/Kg		05/12/21 13:30	05/12/21 21:49	1
m,p-Xylene	ND		0.40		mg/Kg		05/12/21 13:30	05/12/21 21:49	1
o-Xylene	ND		0.20		mg/Kg		05/12/21 13:30	05/12/21 21:49	1
Toluene	ND		0.10		mg/Kg		05/12/21 13:30	05/12/21 21:49	1
Xylenes, Total	ND		0.60		mg/Kg		05/12/21 13:30	05/12/21 21:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*	*05/12/21 13:30*	*05/12/21 21:49*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 122*	*05/12/21 13:30*	*05/12/21 21:49*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*05/12/21 13:30*	*05/12/21 21:49*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*05/12/21 13:30*	*05/12/21 21:49*	*1*

Lab Sample ID: LCS 590-31591/2-A
Matrix: Solid
Analysis Batch: 31597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.500	0.452		mg/Kg		90	76 - 129
Ethylbenzene	0.500	0.451		mg/Kg		90	77 - 126
m,p-Xylene	0.500	0.452		mg/Kg		90	78 - 130
o-Xylene	0.500	0.442		mg/Kg		88	77 - 129
Toluene	0.500	0.472		mg/Kg		94	77 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 129*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 590-15108-2 MS
Matrix: Solid
Analysis Batch: 31597

Client Sample ID: CRH-CP-16
Prep Type: Total/NA
Prep Batch: 31591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.543	0.510		mg/Kg	☼	94	76 - 129
Ethylbenzene	ND		0.543	0.491		mg/Kg	☼	90	77 - 126
m,p-Xylene	ND		0.543	0.487		mg/Kg	☼	90	78 - 130
o-Xylene	ND		0.543	0.493		mg/Kg	☼	91	77 - 129
Toluene	ND		0.543	0.511		mg/Kg	☼	94	77 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 129*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-15108-2 MSD
Matrix: Solid
Analysis Batch: 31597

Client Sample ID: CRH-CP-16
Prep Type: Total/NA
Prep Batch: 31591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.543	0.480		mg/Kg	☼	88	76 - 129	6	25
Ethylbenzene	ND		0.543	0.448		mg/Kg	☼	82	77 - 126	9	25
m,p-Xylene	ND		0.543	0.453		mg/Kg	☼	83	78 - 130	7	23
o-Xylene	ND		0.543	0.440		mg/Kg	☼	81	77 - 129	11	25
Toluene	ND		0.543	0.473		mg/Kg	☼	87	77 - 131	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 590-15108-1 DU
Matrix: Solid
Analysis Batch: 31597

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31591

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	ND			ND		mg/Kg	☼			NC	25
Ethylbenzene	ND			ND		mg/Kg	☼			NC	25
m,p-Xylene	ND			ND		mg/Kg	☼			NC	23
o-Xylene	ND			ND		mg/Kg	☼			NC	25
Toluene	ND			ND		mg/Kg	☼			NC	25
Xylenes, Total	ND			ND		mg/Kg	☼			NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 120*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-31591/1-A
Matrix: Solid
Analysis Batch: 31596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		05/12/21 13:30	05/12/21 21:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*41.5 - 162*	*05/12/21 13:30*	*05/12/21 21:49*	*1*

Lab Sample ID: LCS 590-31591/3-A
Matrix: Solid
Analysis Batch: 31596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31591

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			50.0	52.4		mg/Kg		105	74.4 - 124		

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		41.5 - 162

Lab Sample ID: 590-15108-1 DU
Matrix: Solid
Analysis Batch: 31596

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31591

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline	ND			ND		mg/Kg	☼			NC	32.3

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		41.5 - 162

Lab Sample ID: LCS 590-31602/1005
Matrix: Solid
Analysis Batch: 31602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1.00	1.16		mg/Kg		116	74.4 - 124		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		41.5 - 162

Lab Sample ID: LCSD 590-31602/1009
Matrix: Solid
Analysis Batch: 31602

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1.00	0.983		mg/Kg		98	74.4 - 124	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		41.5 - 162

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-31580/1-A
Matrix: Solid
Analysis Batch: 31575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		05/12/21 10:27	05/12/21 11:28	1
2-Methylnaphthalene	ND		10		ug/Kg		05/12/21 10:27	05/12/21 11:28	1
1-Methylnaphthalene	ND		10		ug/Kg		05/12/21 10:27	05/12/21 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		33 - 120	05/12/21 10:27	05/12/21 11:28	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-31580/2-A
Matrix: Solid
Analysis Batch: 31575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	267	225		ug/Kg		84	45 - 120
2-Methylnaphthalene	267	240		ug/Kg		90	48 - 120
1-Methylnaphthalene	267	234		ug/Kg		88	44 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	82		33 - 120

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-31581/1-A
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		05/12/21 10:42	05/12/21 11:57	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		05/12/21 10:42	05/12/21 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	83		50 - 150	05/12/21 10:42	05/12/21 11:57	1
n-Triacontane-d62	79		50 - 150	05/12/21 10:42	05/12/21 11:57	1

Lab Sample ID: LCS 590-31581/2-A
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	64.8		mg/Kg		97	50 - 150
Residual Range Organics (RRO) (C25-C36)	66.7	69.8		mg/Kg		105	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	84		50 - 150
n-Triacontane-d62	86		50 - 150

Lab Sample ID: 590-15108-1 DU
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31581

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	ND		ND		mg/Kg	☼	NC	40
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/Kg	☼	NC	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	76		50 - 150

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-15108-1 DU
Matrix: Solid
Analysis Batch: 31576

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31581

Surrogate	DU %Recovery	DU Qualifier	Limits
n-Triacontane-d62	76		50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-31583/2-A
Matrix: Solid
Analysis Batch: 31598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		05/12/21 10:51	05/12/21 17:10	1

Lab Sample ID: LCS 590-31583/1-A
Matrix: Solid
Analysis Batch: 31598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	50.0	50.2		mg/Kg		100	80 - 120		

Lab Sample ID: 590-15108-1 MS
Matrix: Solid
Analysis Batch: 31598

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	9.2		52.0	54.4		mg/Kg	☼	87	75 - 125		

Lab Sample ID: 590-15108-1 MSD
Matrix: Solid
Analysis Batch: 31598

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	9.2		51.5	55.0		mg/Kg	☼	89	75 - 125	1	20

Lab Sample ID: 590-15108-1 DU
Matrix: Solid
Analysis Batch: 31598

Client Sample ID: CRH-CP-15
Prep Type: Total/NA
Prep Batch: 31583

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	9.2		7.70		mg/Kg	☼	18	20

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-15
Lab Sample ID: 590-15108-1
Date Collected: 05/11/21 15:00
Matrix: Solid
Date Received: 05/12/21 09:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Client Sample ID: CRH-CP-15
Lab Sample ID: 590-15108-1
Date Collected: 05/11/21 15:00
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.368 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/12/21 22:52	JSP	TAL SPK
Total/NA	Prep	5035			9.368 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/12/21 22:52	JSP	TAL SPK
Total/NA	Prep	3550C			15.71 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 14:11	NMI	TAL SPK
Total/NA	Prep	3550C			15.25 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 16:06	NMI	TAL SPK
Total/NA	Prep	3050B			1.36 g	50 mL	31583	05/12/21 10:51	AMB	TAL SPK
Total/NA	Analysis	6010D		1			31598	05/12/21 17:14	AMB	TAL SPK

Client Sample ID: CRH-CP-16
Lab Sample ID: 590-15108-2
Date Collected: 05/11/21 15:12
Matrix: Solid
Date Received: 05/12/21 09:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Client Sample ID: CRH-CP-16
Lab Sample ID: 590-15108-2
Date Collected: 05/11/21 15:12
Matrix: Solid
Date Received: 05/12/21 09:26
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.77 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/12/21 23:35	JSP	TAL SPK
Total/NA	Prep	5035			9.77 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/12/21 23:35	JSP	TAL SPK
Total/NA	Prep	3550C			15.41 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 14:34	NMI	TAL SPK
Total/NA	Prep	3550C			15.38 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 16:26	NMI	TAL SPK

Client Sample ID: CRH-CP-17
Lab Sample ID: 590-15108-3
Date Collected: 05/11/21 15:18
Matrix: Solid
Date Received: 05/12/21 09:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-17
Date Collected: 05/11/21 15:18
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-3
Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.22 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 00:39	JSP	TAL SPK
Total/NA	Prep	5035			8.22 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 00:39	JSP	TAL SPK
Total/NA	Prep	3550C			15.51 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 14:57	NMI	TAL SPK
Total/NA	Prep	3550C			15.35 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 16:47	NMI	TAL SPK

Client Sample ID: CRH-CP-18
Date Collected: 05/11/21 15:29
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Client Sample ID: CRH-CP-18
Date Collected: 05/11/21 15:29
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-4
Matrix: Solid
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.465 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 01:21	JSP	TAL SPK
Total/NA	Prep	5035			9.465 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 01:21	JSP	TAL SPK
Total/NA	Prep	5035			9.465 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31602	05/13/21 13:04	JSP	TAL SPK
Total/NA	Prep	3550C			15.28 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 15:20	NMI	TAL SPK
Total/NA	Prep	3550C			15.45 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 17:07	NMI	TAL SPK
Total/NA	Prep	3050B			1.29 g	50 mL	31583	05/12/21 10:51	AMB	TAL SPK
Total/NA	Analysis	6010D		1			31598	05/12/21 17:35	AMB	TAL SPK

Client Sample ID: CRH-CP-19
Date Collected: 05/11/21 16:15
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-19
Date Collected: 05/11/21 16:15
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-5
Matrix: Solid
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.848 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 01:42	JSP	TAL SPK
Total/NA	Prep	5035			8.848 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 01:42	JSP	TAL SPK
Total/NA	Prep	3550C			15.41 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 15:43	NMI	TAL SPK
Total/NA	Prep	3550C			15.77 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 17:27	NMI	TAL SPK

Client Sample ID: CRH-CP-20
Date Collected: 05/11/21 15:55
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Client Sample ID: CRH-CP-20
Date Collected: 05/11/21 15:55
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-6
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.24 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 02:04	JSP	TAL SPK
Total/NA	Prep	5035			9.24 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 02:04	JSP	TAL SPK
Total/NA	Prep	3550C			15.16 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 16:07	NMI	TAL SPK
Total/NA	Prep	3550C			15.67 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 17:47	NMI	TAL SPK

Client Sample ID: CRH-CP-21
Date Collected: 05/11/21 15:45
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Client Sample ID: CRH-CP-21
Date Collected: 05/11/21 15:45
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-7
Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.033 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 02:25	JSP	TAL SPK
Total/NA	Prep	5035			9.033 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 02:25	JSP	TAL SPK

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-21
Date Collected: 05/11/21 15:45
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-7
Matrix: Solid
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.22 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 16:30	NMI	TAL SPK
Total/NA	Prep	3550C			15.16 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 18:08	NMI	TAL SPK
Total/NA	Prep	3050B			1.41 g	50 mL	31583	05/12/21 10:51	AMB	TAL SPK
Total/NA	Analysis	6010D		1			31598	05/12/21 17:38	AMB	TAL SPK

Client Sample ID: CRH-CP-22
Date Collected: 05/11/21 16:25
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:14	AMB	TAL SPK

Client Sample ID: CRH-CP-22
Date Collected: 05/11/21 16:25
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-8
Matrix: Solid
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.866 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 02:46	JSP	TAL SPK
Total/NA	Prep	5035			8.866 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 02:46	JSP	TAL SPK
Total/NA	Prep	3550C			15.97 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 16:53	NMI	TAL SPK
Total/NA	Prep	3550C			15.09 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 18:28	NMI	TAL SPK

Client Sample ID: CRH-CP-23
Date Collected: 05/11/21 16:34
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:17	AMB	TAL SPK

Client Sample ID: CRH-CP-23
Date Collected: 05/11/21 16:34
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-9
Matrix: Solid
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.986 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 03:07	JSP	TAL SPK
Total/NA	Prep	5035			8.986 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 03:07	JSP	TAL SPK
Total/NA	Prep	3550C			15.20 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 17:16	NMI	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-23
Date Collected: 05/11/21 16:34
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-9
Matrix: Solid
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			15.16 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 18:48	NMI	TAL SPK

Client Sample ID: CRH-CP-24
Date Collected: 05/11/21 16:43
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:17	AMB	TAL SPK

Client Sample ID: CRH-CP-24
Date Collected: 05/11/21 16:43
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-10
Matrix: Solid
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.491 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 03:29	JSP	TAL SPK
Total/NA	Prep	5035			8.491 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 03:29	JSP	TAL SPK
Total/NA	Prep	3550C			15.78 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 17:39	NMI	TAL SPK
Total/NA	Prep	3550C			15.25 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 19:29	NMI	TAL SPK

Client Sample ID: CRH-CP-25
Date Collected: 05/11/21 16:50
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31586	05/12/21 11:17	AMB	TAL SPK

Client Sample ID: CRH-CP-25
Date Collected: 05/11/21 16:50
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-11
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.391 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31597	05/13/21 03:50	JSP	TAL SPK
Total/NA	Prep	5035			9.391 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31596	05/13/21 03:50	JSP	TAL SPK
Total/NA	Prep	5035			9.391 g	10 mL	31591	05/12/21 13:30	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31602	05/13/21 13:26	JSP	TAL SPK
Total/NA	Prep	3550C			15.11 g	2 mL	31580	05/12/21 12:56	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31575	05/12/21 18:02	NMI	TAL SPK
Total/NA	Prep	3550C			15.77 g	5 mL	31581	05/12/21 13:08	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31576	05/12/21 19:50	NMI	TAL SPK

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Client Sample ID: CRH-CP-25
Date Collected: 05/11/21 16:50
Date Received: 05/12/21 09:26

Lab Sample ID: 590-15108-11
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.46 g	50 mL	31583	05/12/21 10:51	AMB	TAL SPK
Total/NA	Analysis	6010D		1			31598	05/12/21 17:57	AMB	TAL SPK

Laboratory References:
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
NWTPH-Dx	3550C	Solid	Residual Range Organics (RRO) (C25-C36)

Method Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15108-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
6010D	Metals (ICP)	SW846	TAL SPK
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK
3550C	Ultrasonic Extraction	SW846	TAL SPK
5035	Closed System Purge and Trap	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency
NWTPH = Northwest Total Petroleum Hydrocarbon
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And its Updates.

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

TestAmerica Spokane
11922 E 1st Avenue

Spokane, WA 99206-5302
phone 509.924.9200 fax 509.924.9290

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/13/2021

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: WA DOE

TestAmerica Laboratories, Inc.

Client Contact	Project Manager:	Site Contact:	Carrier: Able Cleanup	COC No:
Able Cleanup Technologies Inc.	Tel/Fax:	Lab Contact:		1 of 1 COCs
5308 N Myrtle St	Analysis Turnaround Time			Sampler:
Spokane, WA 99217	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
509-466-5255	TAT if different from Below			Walk-in Client:
509-487-9810	☐ 2 weeks			Lab Sampling:
Project Name: CRH	☐ 1 week			
Site: Crestline Pit	☐ 2 days			Job / SDG No.:
P O # 20384	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH-Dx	TPH-Gx	BTEX	EDB	EDC	MTBE	Total Pb	PAHs	Naphthalene	PCBs	HVOC's	WA Naphthalenes	Sample Specific Notes
CRH-CP-15	5/11/21	15:00	G	SOIL	3			X	X	X				X					X	
CRH-CP-16		15:12						X	X	X									X	
CRH-CP-17		15:18						X	X	X									X	
CRH-CP-18		15:29						X	X	X				X					X	
CRH-CP-19		16:15						X	X	X									X	
CRH-CP-20		15:55						X	X	X									X	
CRH-CP-21		15:45						X	X	X				X					X	
CRH-CP-22		16:25						X	X	X									X	
CRH-CP-23		16:34						X	X	X									X	
CRH-CP-24		16:43						X	X	X									X	
CRH-CP-25		16:50						X	X	X				X					X	

590-15108 Chain of Custody

Page 29 of 30

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: WA Naphthalenes includes 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: 1.6 Corr'd: 1.2		Therm ID No.: IR Gun
Relinquished by: Matt Ballew	Company: Able Cleanup Tech	Date/Time: 5/12/21 0930	Received by:	Company: TASPO	Date/Time: 5/12/21 9:26
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.16, dated 3/20/2018

Login Sample Receipt Checklist

Client: Able Clean-Up Technologies, Inc

Job Number: 590-15108-1

Login Number: 15108
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not present
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-15152-1
Client Project/Site: CRH

For:
Able Clean-Up Technologies, Inc
5308 N Myrtle St.
PO BOX 6185
Spokane, Washington 99217

Attn: Kipp E Silver

Authorized for release by:
5/18/2021 5:13:52 PM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Job ID: 590-15152-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt
The sample was received on 5/17/2021 9:54 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 6.7° C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: CRH-CP-26 (590-15152-1). The sample is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA
Method NWTPH-Gx: For the following samples, detected hydrocarbons in the gasoline range appear to be due to diesel overlap.
CRH-CP-26 (590-15152-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-15152-1	CRH-CP-26	Solid	05/17/21 07:40	05/17/21 09:54	

Definitions/Glossary

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Client Sample ID: CRH-CP-26
Date Collected: 05/17/21 07:40
Date Received: 05/17/21 09:54

Lab Sample ID: 590-15152-1
Matrix: Solid
Percent Solids: 97.0

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1
Ethylbenzene	ND		0.12		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1
m,p-Xylene	ND		0.47		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1
o-Xylene	ND		0.24		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1
Toluene	ND		0.12		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1
Xylenes, Total	ND		0.71		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 129*	*05/18/21 11:34*	*05/18/21 14:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 122*	*05/18/21 11:34*	*05/18/21 14:20*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*05/18/21 11:34*	*05/18/21 14:20*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*05/18/21 11:34*	*05/18/21 14:20*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	65		5.9		mg/Kg	☼	05/18/21 11:34	05/18/21 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*41.5 - 162*	*05/18/21 11:34*	*05/18/21 14:20*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg	☼	05/18/21 10:38	05/18/21 12:23	1
2-Methylnaphthalene	130		10		ug/Kg	☼	05/18/21 10:38	05/18/21 12:23	1
1-Methylnaphthalene	150		10		ug/Kg	☼	05/18/21 10:38	05/18/21 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*33 - 120*	*05/18/21 10:38*	*05/18/21 12:23*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	470		9.9		mg/Kg	☼	05/18/21 11:02	05/18/21 13:22	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg	☼	05/18/21 11:02	05/18/21 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*50 - 150*	*05/18/21 11:02*	*05/18/21 13:22*	*1*
n-Triacontane-d62	*86*		*50 - 150*	*05/18/21 11:02*	*05/18/21 13:22*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		2.3		mg/Kg	☼	05/17/21 09:54	05/18/21 14:58	1

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-31654/1-A
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		05/18/21 11:31	05/18/21 13:16	1
Ethylbenzene	ND		0.10		mg/Kg		05/18/21 11:31	05/18/21 13:16	1
m,p-Xylene	ND		0.40		mg/Kg		05/18/21 11:31	05/18/21 13:16	1
o-Xylene	ND		0.20		mg/Kg		05/18/21 11:31	05/18/21 13:16	1
Toluene	ND		0.10		mg/Kg		05/18/21 11:31	05/18/21 13:16	1
Xylenes, Total	ND		0.60		mg/Kg		05/18/21 11:31	05/18/21 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 129*	*05/18/21 11:31*	*05/18/21 13:16*	*1*
4-Bromofluorobenzene (Surr)	*106*		*76 - 122*	*05/18/21 11:31*	*05/18/21 13:16*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*05/18/21 11:31*	*05/18/21 13:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*05/18/21 11:31*	*05/18/21 13:16*	*1*

Lab Sample ID: LCS 590-31654/2-A
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.500	0.611		mg/Kg		122	76 - 129
Ethylbenzene	0.500	0.598		mg/Kg		120	77 - 126
m,p-Xylene	0.500	0.597		mg/Kg		119	78 - 130
o-Xylene	0.500	0.582		mg/Kg		116	77 - 129
Toluene	0.500	0.593		mg/Kg		119	77 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*
4-Bromofluorobenzene (Surr)	*98*		*76 - 122*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 590-15152-1 MS
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.590	0.663		mg/Kg	☼	112	76 - 129
Ethylbenzene	ND		0.590	0.675		mg/Kg	☼	114	77 - 126
m,p-Xylene	ND		0.590	0.662		mg/Kg	☼	112	78 - 130
o-Xylene	ND		0.590	0.671		mg/Kg	☼	114	77 - 129
Toluene	ND		0.590	0.657		mg/Kg	☼	111	77 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 129*
4-Bromofluorobenzene (Surr)	*99*		*76 - 122*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-15152-1 MSD
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.590	0.626		mg/Kg	☼	106	76 - 129	6	25
Ethylbenzene	ND		0.590	0.619		mg/Kg	☼	105	77 - 126	9	25
m,p-Xylene	ND		0.590	0.620		mg/Kg	☼	105	78 - 130	7	23
o-Xylene	ND		0.590	0.623		mg/Kg	☼	106	77 - 129	7	25
Toluene	ND		0.590	0.621		mg/Kg	☼	105	77 - 131	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 129*
4-Bromofluorobenzene (Surr)	*100*		*76 - 122*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 590-15152-1 DU
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31654

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	ND			ND		mg/Kg	☼			NC	25
Ethylbenzene	ND			ND		mg/Kg	☼			NC	25
m,p-Xylene	ND			ND		mg/Kg	☼			NC	23
o-Xylene	ND			ND		mg/Kg	☼			NC	25
Toluene	ND			ND		mg/Kg	☼			NC	25
Xylenes, Total	ND			ND		mg/Kg	☼			NC	25

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*
4-Bromofluorobenzene (Surr)	*100*		*76 - 122*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-31654/1-A
Matrix: Solid
Analysis Batch: 31652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		05/18/21 11:31	05/18/21 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*41.5 - 162*	*05/18/21 11:31*	*05/18/21 13:16*	*1*

Lab Sample ID: LCS 590-31654/3-A
Matrix: Solid
Analysis Batch: 31652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31654

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			50.0	56.1		mg/Kg		112	74.4 - 124		

QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		41.5 - 162

Lab Sample ID: 590-15152-1 DU — **Client Sample ID: CRH-CP-26**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31652 — **Prep Batch: 31654**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline	65			63.1		mg/Kg	☼			3	32.3

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		41.5 - 162

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-31648/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31647 — **Prep Batch: 31648**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		05/18/21 10:38	05/18/21 11:37	1
2-Methylnaphthalene	ND		10		ug/Kg		05/18/21 10:38	05/18/21 11:37	1
1-Methylnaphthalene	ND		10		ug/Kg		05/18/21 10:38	05/18/21 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	68		33 - 120	05/18/21 10:38	05/18/21 11:37	1

Lab Sample ID: LCS 590-31648/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31647 — **Prep Batch: 31648**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			267	225		ug/Kg		84	45 - 120		
2-Methylnaphthalene			267	232		ug/Kg		87	48 - 120		
1-Methylnaphthalene			267	224		ug/Kg		84	44 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	59		33 - 120

Lab Sample ID: 590-15152-1 MS — **Client Sample ID: CRH-CP-26**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31647 — **Prep Batch: 31648**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		261	208		ug/Kg	☼	77	45 - 120		
2-Methylnaphthalene	130		261	334		ug/Kg	☼	79	48 - 120		
1-Methylnaphthalene	150		261	342		ug/Kg	☼	73	44 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	66		33 - 120

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 590-15152-1 MSD
Matrix: Solid
Analysis Batch: 31647

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		267	193		ug/Kg	☼	70	45 - 120	7	20
2-Methylnaphthalene	130		267	309		ug/Kg	☼	68	48 - 120	8	20
1-Methylnaphthalene	150		267	317		ug/Kg	☼	63	44 - 120	7	14

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*65*		*33 - 120*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-31649/1-A
Matrix: Solid
Analysis Batch: 31646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10		mg/Kg		05/18/21 11:02	05/18/21 12:21	1
Residual Range Organics (RRO) (C25-C36)	ND		25		mg/Kg		05/18/21 11:02	05/18/21 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*05/18/21 11:02*	*05/18/21 12:21*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*05/18/21 11:02*	*05/18/21 12:21*	*1*

Lab Sample ID: LCS 590-31649/2-A
Matrix: Solid
Analysis Batch: 31646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	63.7		mg/Kg		96	50 - 150
Residual Range Organics (RRO) (C25-C36)	66.7	72.8		mg/Kg		109	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*80*		*50 - 150*
n-Triacontane-d62	*80*		*50 - 150*

Lab Sample ID: 590-15152-1 DU
Matrix: Solid
Analysis Batch: 31646

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31649

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	470		433		mg/Kg	☼	8	40
Residual Range Organics (RRO) (C25-C36)	ND		ND		mg/Kg	☼	0.4	40

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
o-Terphenyl	*93*		*50 - 150*

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QC Sample Results

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 590-15152-1 DU
Matrix: Solid
Analysis Batch: 31646

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31649

Surrogate	DU %Recovery	DU Qualifier	Limits
n-Triacontane-d62	82		50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-31632/2-A
Matrix: Solid
Analysis Batch: 31657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0		mg/Kg		05/17/21 09:54	05/18/21 14:55	1

Lab Sample ID: LCS 590-31632/1-A
Matrix: Solid
Analysis Batch: 31657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	54.5		mg/Kg		109	80 - 120

Lab Sample ID: 590-15152-1 MS
Matrix: Solid
Analysis Batch: 31657

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	9.3		50.5	58.8		mg/Kg	☼	98	75 - 125

Lab Sample ID: 590-15152-1 MSD
Matrix: Solid
Analysis Batch: 31657

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	9.3		50.0	59.6		mg/Kg	☼	101	75 - 125	1	20

Lab Sample ID: 590-15152-1 DU
Matrix: Solid
Analysis Batch: 31657

Client Sample ID: CRH-CP-26
Prep Type: Total/NA
Prep Batch: 31632

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	9.3		9.58		mg/Kg	☼	3	20

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Lab Chronicle

Client: Able Clean-Up Technologies, Inc
Project/Site: CRH

Job ID: 590-15152-1

Client Sample ID: CRH-CP-26
Date Collected: 05/17/21 07:40
Date Received: 05/17/21 09:54

Lab Sample ID: 590-15152-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			31645	05/18/21 09:20	NMI	TAL SPK

Client Sample ID: CRH-CP-26
Date Collected: 05/17/21 07:40
Date Received: 05/17/21 09:54

Lab Sample ID: 590-15152-1
Matrix: Solid
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.963 g	10 mL	31654	05/18/21 11:34	JSP	TAL SPK
Total/NA	Analysis	8260D		1	0.86 mL	43 mL	31653	05/18/21 14:20	JSP	TAL SPK
Total/NA	Prep	5035			8.963 g	10 mL	31654	05/18/21 11:34	JSP	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	0.86 mL	43 mL	31652	05/18/21 14:20	JSP	TAL SPK
Total/NA	Prep	3550C			15.29 g	2 mL	31648	05/18/21 10:38	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			31647	05/18/21 12:23	NMI	TAL SPK
Total/NA	Prep	3550C			15.55 g	5 mL	31649	05/18/21 11:02	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			31646	05/18/21 13:22	NMI	TAL SPK
Total/NA	Prep	3050B			1.35 g	50 mL	31632	05/17/21 09:54	AMB	TAL SPK
Total/NA	Analysis	6010D		1			31657	05/18/21 14:58	JSP	TAL SPK

Laboratory References:
TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Attachment VII: Sampling and Analysis Plan
General

The sampling and analysis plan will comply with applicable State, Federal and local regulations. The sampling procedures conform to Environmental Regulation 1110-1-263 and USACE Memorandum "Sample Handling Protocol for low, medium, and high Concentration Samples of Hazardous Wastes" October 1986, and EPA requirements and guidelines.

Field Screening Techniques

During contaminated soil investigations, samples will be taken for head space analysis to determine if soil contamination is present. These samples will be analyzed in the field utilizing the following procedure:

1. Select a clean, sealable plastic air tight baggy.
2. Fill the baggy 1/3 full with a discrete soil sample.
3. Immediately seal the baggy to prevent volatile components from escaping.
4. Place the soil sample in warm to hot environment for 5-10 minutes (vehicle heater or sun rays). This allows the volatile components to become vapors and collect in the space above the soil. Very moist soils shall be allowed to sit in the sun for 10-15 minutes.
5. Prior to using the instrument, perform a bump test using a felt pen cap over the end of the sensor probe. This will create an artificial sensor reading.
6. Remove the sample container from the warm/hot environment and insert the instrument probe through the plastic for vapor analysis. This must be accomplished within thirty seconds to prevent the sample from cooling and creating a vacuum in the sample container.
7. Record the instrument response, sample number, sample location, and time in the sample was collected in the Field Log.
8. Allow sufficient time for the instrument to clear prior to analysis of further samples.

Field Instrumentation

Photo Ionization Detector

Able Clean-up Technologies uses the handheld VOC monitor MiniRAE 3000 for field screening of petroleum products and volatile organic compounds

Alarm Signals

During each measurement period, the gas concentration is compared with the programmed alarm limits; if the concentration exceeds any of the preset limits, the loud buzzer and red flashing LED are activated immediately to warn you of the alarm condition.

In addition, the instrument alarms if one of the following conditions occurs: battery voltage falls below preset voltage level, failure of the UV lamp, or pump stall.

The instrument is factory calibrated with standard calibration gas and is programmed with default alarm limits.

Integrated Sampling Pump

The instrument includes an integrated sampling pump, this diaphragm-type pump that provides a 450 to 550 cc per minute flow rate. Connecting a Teflon or metal tubing with 1/8” inside diameter to the gas inlet port of the instrument, this pump can pull in air samples from 100’ (30 m) away horizontally or vertically.

If liquid or other objects are pulled into the inlet port filter, the instrument detects the obstruction and immediately shuts down the pump. The alarm is activated and a flashing pump icon is displayed.

The user needs to acknowledge the pump shutoff condition by clearing the obstruction and pressing the [Y/+] key while in the main reading display to restart the pump.

Calibration of Testing Equipment

Entering Calibration:

1. Press and hold [MODE] and the [N/-] until the Password screen is visible.
2. In Basic User Level, the user does not need a password to perform calibrations. Instead of inputting a password, enter calibration by pressing [MODE].

The calibration screen is now visible with Zero Calibration highlighted.

The following options are available:

- Press [Y/+] to select the highlighted calibrations (Zero Calib or Span Calib).
- Press [MODE] to exit calibration and return to main display and resume measurement.
- Press [N/-] to toggle the highlighted calibration type.

Zero (Fresh Air) Calibration

This procedure determines the zero point of the sensor calibration curve. To perform a fresh air calibration, use the calibration adapter to connect the instrument to a "fresh" air source such as from a cylinder or Tedlar bag. The "fresh" air is clean, dry air without organic impurities and an oxygen level of 20.9%. If such an air cylinder is not available, any clean ambient air without detectable contaminants or a charcoal filter can be used.

At the Zero Calibration menu, the user can proceed to perform a Zero calibration or bypass Zero calibration and perform a Span calibration.

Once Zero calibration mode has been entered, the screen will prompt the user to apply zero gas.

1. Turn on Zero calibration gas.
2. Press [Y/+] to start calibration.
3. Zero calibration starts a 30-second countdown and displays "Zeroing…" message.

During zeroing process, the instrument performs the Zero calibration automatically and does not require any user action.

When Zero calibration is complete, "Zeroing is done! Reading 0.0 ppm" message is displayed

The instrument will then show the Calibration menu on the display, with Span Calib highlighted.

Span Calibration

This procedure determines the second point of the sensor calibration curve for the sensor. A cylinder of a standard reference gas (span gas) fitted with a 500 cc/min flow-limiting regulator or a flow-matching regulator is the simplest way to perform this procedure. Choose the 500 cc/min regulator only if the flow rate matches or slightly exceeds the flow rate of the instrument pump. Alternatively, the span gas can first be filled into a Tedlar bag or delivered through a demand-flow regulator. Connect the calibration adapter to the inlet port of the instrument, and connect the tubing to the regulator or Tedlar bag.

Another alternative is to use a regulator with greater than 500 cc/min flow but allow the excess flow to escape through a T or an open tube. In the latter method, the span gas flows out through an open tube slightly wider than the probe, and the probe is inserted into the calibration tube.

At the Span Calibration menu, the user performs a Span Calibration.

- Press [Y/+] to enter Span calibration.
- Press [N/-] to skip Span calibration and return to Zero calibration.
- Press [MODE] to exit Span calibration and return to the top calibration menu.

Once Span calibration has been entered, the user will see the name of the Span gas and the span value in parts per million (ppm). The message shown will prompt the user.

1. Turn on the span calibration gas.
2. Press [Y/-] to initiate calibration.
3. Zero calibration starts a 30-second countdown and displays this message:

"Calibrating…."

During the Span calibration process, there is a 30-second countdown and the instrument performs the Span calibration automatically. It requires no user action.

When Span calibration is complete, a message similar to this will display (the value is an example only):

"Span 1 is done! Reading 100.0 ppm"

The instrument then exits Span calibration and shows the Zero calibration menu on its display.

Exiting Two Point Calibration in Basic User Level

When the user is done performing calibrations, press [MODE] which corresponds with "Back" on the display. The following message will display:

"Updating Settings…"

The instrument updates its settings and then returns to the main display. It begins or resumes monitoring.

Three-Point Calibration

For enhanced accuracy, it is possible to perform a second Span calibration in addition to the Zero and Span calibrations outlines in the previous section. The instrument must first be set to allow this third calibration. This requires using ProRAE Studio software and a PC, as well as a higher concentration of calibration gas.

Perform the Zero and Span calibrations. After the first Span calibration (Span 1) is completed, a second calibration (Span 2) can be performed. The process is identical to the first calibration.

Span 2 Calibration

A cylinder of standard reference gas (span gas) fitted with a 500 cc/min flow-limiting regulator or a flow-matching regulator is the simplest way to perform this procedure.

Choose the 500 cc/min regulator only if the flow rate matches or slightly exceeds the flow rate of the instrument pump. Alternatively, the span gas can first be filled into a Tedlar bag or delivered through a demand-flow regulator. Connect the calibration adapter to the inlet port of the instrument, and connect the tubing to the regulator or Tedlar bag.

Another alternative is to use a regulator with a >500 cc/min flow but allow the excess flow to escape through a T or an open tube. In the latter method, the span gas flows out through an open tube slightly wider than the probe, and the probe is inserted into the calibration tube.

At the Span Calibration menu, the user can perform a Span Calibration.

- Press [Y/+] to enter Span 2 calibration
- Press [N/-] to skip Span calibration and return to Zero calibration.
- Press [MODE] to exit Span calibration and return to the top menu.

If the user has pressed [Y/+] to enter Span calibration, then the user will see the name of the Span gas (the default is isobutylene) and the span values in parts per million (ppm). A message prompt: "Please apply gas…" will appear.

4. Turn on the span calibration gas.

5. Press [Y/+] to initiate calibration
6. Span calibration starts a 60-second countdown and displays this message: "Calibrating…"

During the Span calibration process the instrument performs the Span calibration automatically and does not require any user action.

When Span calibration is complete, the user will see a message similar to this (the value shown here is for example only):

Span 2 is done!
Reading = 1000 ppm

The instrument then exits Span calibration and shows the Zero calibration on its display.

Soil Sample Collection Method

The procedures outlined here are summarized from *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, Method 5035.*

Soil Samples for Volatile Organic Compounds (VOC's) Analysis

If samples are to be analyzed for volatile organic compounds, they should be collected in a manner that minimizes disturbance of the sample. For example, when sampling with an auger bucket, the sample for VOC analysis should be collected directly from the auger bucket (preferred) or from minimally disturbed material immediately after an auger bucket is emptied into the pan. The sample shall be containerized by filling a ~Sampler or other Method 5035 compatible container. *Samples for VOC analysis are not homogenized.* Preservatives may be required for some samples with certain variations of Method 5035. Consult the method or the principal analytical chemist to determine if preservatives are necessary.

Soil Sampling (Method 5053)

The following sampling protocol is recommended for site investigators assessing the extent of volatile organic compounds (VOCs) in soils at a project site. Because of the large number of options available, careful coordination between field and laboratory personnel is needed. The specific sampling containers and sampling tools required will depend upon the detection levels and intended data use. Once this information has been established, selection of the appropriate sampling procedure and preservation method best applicable to the investigation can be made.

Sampling Methodology – High Concentrations (>200 µg/kg)

Based upon the data quality objectives and the detection level requirements, this high level method may also be used. Specifically, the sample may be packed into a single 2-oz. glass container with a screw cap and septum seal. The sample container must be filled quickly and completely to eliminate head space.

Special Techniques and Considerations for Method 5035

Effervescence

If low concentration samples effervesce from contact with the acid preservative, then either a test for effervescence must be performed prior to sampling, or the investigators must be prepared to collect each sample both preserved or un-preserved, as needed, or all samples must be collected unpreserved.

To check for effervescence, collect a test sample and add to a pre-preserved vial. If preservation (acidification) of the sample results in effervescence (rapid formation of bubbles) then preservation by acidification is not acceptable, and the sample must be collected un-preserved. If effervescence occurs and only pre-preserved sample vials are available, the preservative solution may be placed into an appropriate hazardous waste container and the vials triple rinsed with organic free water. An appropriate amount of organic free water, equal to the amount of preservative solution, should be placed into the vial. The sample may then be collected as an un-preserved sample. Note that the amount of organic free water placed into the vials will have to be accurately measured.

Sample Size

While this method is an improvement over earlier ones, field investigators must be aware of an inherent limitation. Because of the extremely small sample size and the lack of sample mixing, sample representativeness for VOCs may be reduced compared to samples with larger volumes collected for other constituents. The sampling design and objectives of the investigation should take this into consideration.

Holding Times

Sample holding times are specified in the *Analytical Support Branch Laboratory Operations and Quality Assurance Manual* (ASBLOQAM), Most Recent Version. Field investigators should note that the holding time for an un-preserved VOC soil/sediment sample on ice is 48 hours. Arrangements should be made to ship the soil/sediment VOC samples to the laboratory by overnight delivery the day of collection so the laboratory may preserve and/or analyze the sample within 48 hours of collection.

Percent Moisture and Preservative Compatibility (MOICA)

Samplers must ensure that the laboratory has sufficient material to determine percent moisture in the VOC soil/sediment sample to correct the analytical results to dry weight. If other analyses requiring percent moisture determination are being performed upon the sample, these results may be used. If not, a separate sample (minimum of 2 oz.) for percent moisture determination will be required. The sample collected for percent moisture may also be used by the laboratory to check for preservative compatibility.

Safety

Methanol is a toxic and flammable liquid. Therefore, methanol must be handled with all required safety precautions related to toxic and flammable liquids. Inhalation of methanol vapors must be avoided. Vials should be handled with protective gloves, opened and closed quickly during the sample preservation procedure, and handled in a ventilated area. Store methanol away from sources of ignition such as extreme heat or open flames. The vials of methanol should be stored on ice at all times.

1. Whenever possible, samples will be gathered by the backhoe operator who will excavate material and make it available to the ACT environmental technician.
2. If the situation is such that a representative sample cannot be gathered by the backhoe, the ACT environmental technician will enter the pit to obtain the sample. If entry is necessary, a ladder and second means of egress will be provided. If the excavation walls cannot conform to the angle of repose (i.e., 37 degrees from horizontal or less) then the sidewalls will be shored temporarily assuming the excavation is over five feet in depth and not located in bedrock, solid rock, hard shale, hard pan, cemented sand or gravel, or similar stable material in which there is no possibility of movement or cave-in.
3. If groundwater is present, samples will be taken of the water.
4. One soil sample will be taken in each area that is suspected to be contaminated, based on visual inspection and head space analysis results.
5. If groundwater is exposed, two water samples will be taken, one from the surface of the water and one completely below the surface.

The shipment and disposal methods for rinsate, sludge and/or contaminated water will be based on the results of the sample analyses. All material will be disposed of in accordance with all Federal, State and local requirements for the material that has been identified.

Sample Numbering System

A 6 to 7 digit sampling numbering scheme will be used to identify the samples as follows:

Example: TC-SAG-1

TC: Towner's Conoco

SA: Site Assessment

G: Gasoline

SP: Stockpile

1: Sample Number

Sampling Equipment Handling and Decontamination

Sampling utensils which contact environmental supplies will be decontaminated, inspected and repaired as necessary after each use. The decontamination procedure will be conducted as follows:

1. Wash the utensil in a solution of Alconox® (TSP) and water. The solution shall consist of 1/4 cup TSP and 4 gallons potable water.
2. Rinse the utensil with deionized water.
3. Repeat step one and step two when the utensil comes in contact with highly contaminated media.
4. Store the utensil in its protective case. Utensils will not be placed in the case until they have been properly decontaminated. In the event that a utensil is placed in its protective case prior to decontamination, the protective case, as well as the utensil will be decontaminated prior to use.
5. Rinsate from this procedure will be disposed of off-site in an environmentally safe manner, according to all Federal, State and local regulations.

Sample Handling and Shipment

Sample handling and shipment procedures are discussed under section Sample Analysis Quality Control and Quality Assurance Plan

Head Space Sampling and Testing Procedure

The excavation material was evaluated using field head space analysis performed with a PID. This was performed on site to estimate if the soil survey samples were impacted or not.

The results from the head space tests were utilized to evaluate the potential extent of contamination. When the head space analytical results indicated that the excavated soils were within acceptable limits of contamination which is less than 5ppm, no laboratory samples were collected. If the head space sample was over 5ppm then a laboratory sample was extracted and transported under COC directly to the laboratory for analysis.

Sampling Analysis Quality Control and Quality Assurance Plan

General

The Quality Assurance and Quality Control Plan will comply with applicable State, Federal and local regulations. The sampling procedures conform to the technical specifications of the contract and USACE-Environmental Regulation 1110-1-263 and USACE Memorandum "Sample Handling Protocol for low, medium, and high Concentration Samples of Hazardous Wastes" October 1986, and EPA requirements and guidelines.

Field Sampling Quality Control

Field sampling procedures developed for this project reflect a level of quality which is consistent with applicable federal, state, and local guidelines. The following outline describes the Q.C. Field Sampling Procedures.

Soil Sampling

Soil samples are collected from the backhoe bucket wherever possible. The sampler will direct the backhoe operator to place the bucket at the desired sample location. The backhoe operator will collect no less than 1/4 cubic yard and move the bucket to a location safely accessible to the sampler. However, on occasion it may be necessary for the sampler to enter the excavation to collect a soil sample that is inaccessible to the backhoe bucket. Stable embankment slopes (min. 1.5h: 1.0v) or temporary shoring must be provided prior to entry by the sampler.

Using decontaminated sampling utensils, the sampler will remove sufficient soil to ensure that the backhoe bucket did not come into contact with the soil sample to be collected. The sample will be collected from the center of the bucket at least six inches below the soil surface to ensure that volatilization of aromatic compounds in the soil does not occur.

In general, soil sample collection and control will follow the protocol described below:

A. Select a laboratory certified clean sample jar for sample collection.

B. Using clean latex gloves and clean sampling utensils (see Sampling Utensil Decontamination) tightly pack the soil into the sample jar to prevent any air space.

C. Label the jar with the soil sample number, type of laboratory test required, date, name of site, and the name of the sampler.

D. Enter the sample information on the COC form.

E. Pack the sample in an ice chest packed with ice following all guidelines.

G. When the ice chest is filled, or at the close of each work day, the ice chest shall be sealed.

H. Transport the ice chest to a commercial courier for shipment to the laboratory or directly to the laboratory.

Groundwater Sampling

The procedure for collection of groundwater samples for laboratory analysis is as follows:

A. Select a laboratory certified clean sample jar for sample collection.
B. Use clean latex gloves to collect a sample of groundwater by immersing the sample jar in the exposed groundwater (Note: It will be necessary for the sampler to enter the excavation to accomplish this task). Place the cap on the sample jar/vial underwater to ensure the absence of air. Invert the sample to ensure there is no air space included with the sample.
C. Label the jar with the groundwater sample number, type of laboratory test required, date, name of the site, and the name of the sampler.
D. Enter the sample on the COC form.
E. Pack the sample in an ice chest packed with ice for shipment
F. When the ice chest is filled, or at the close of each work day, the ice chest shall be sealed.
G. Transport the ice chest to a commercial courier for shipment to the laboratory, or directly to the laboratory when possible.

Head Space Sampling and Testing Procedure

The procedure for collection and analysis of head space samples is as follows:

A. Select a clean, sealable plastic bag.

B. Fill the bag 1/3 full with a discrete soil sample.

C. Immediately seal the opening as to not vent volatile components.

D. Place the sample container in a warmed location for 10 minutes. This allows the volatile components to become vapors and collect in the space above the soil.

E. Remove the sample container from the warmed location and insert the instrument probe through the opening for vapor analysis. This must be accomplished within thirty seconds to prevent the sample from cooling and creating a vacuum in the sample container.

Record the instrument response, sample number and sample location in the field log.

Rinsate Sampling

The procedure for collection of rinsate samples for laboratory analysis is as follows:

A. Select a laboratory certified clean sample jar for sample collection.

B. Using clean latex gloves collect a sample of rinsate by immersing it in the liquid contained in drum for each tank cleaning. Place the cap on the sample jar/vial under the surface of the liquid to ensure the absence of air. Invert the sample to ensure there is no air space included with the sample.

C. Label the jar with the rinsate sample number, the type of laboratory test required, the date, name of site and the name of the sampler.

D. Enter the sample on the COC form.

E. Pack the sample in an ice chest packed with blue ice for shipment.

F. When the ice chest is filled, or at the close of each work day, the ice chest shall be sealed.

Transport the ice chest to a commercial courier for shipment to the laboratory.

Laboratory Quality Control

A. Eurofins TestAmerica will be responsible for quality control of soil and groundwater samples at the facility. They will provide QA/QC sample analysis.

B. Analysis of all samples from soil, water, or decontamination water will be performed by the following laboratory:

Eurofins TestAmerica	**IDHW & WADOE Certified Lab**
11922 East 1st Ave	Accredited Lab
Spokane, WA 99206	Phone: (509) 924-9200

C. Samples will be handled in accordance with the following protocol:

1. *Purpose:* This protocol provides guidance on sample volumes, containers, packing, and shipping for low, medium, and high concentration environmental samples taken for chemical analysis.

2. *Applicability:* This guidance applies to all samples taken for HTW chemical analysis. The requirements are consistent with those of the Environmental Protection Agency and all standard chemical methods generally used are included.

3. *Low Concentration Sample*s:

a. Waters

(1) Organics

(a) Bottle and Preservative Requirement

- Four 1-liter amber glass bottles (*Teflon*-lined caps); iced to 4°C (may not be held at site over 24 hours).
- Two 40 mL glass VOA vials (with *Teflon* septa); iced to 4°C (may not be held at site over 24 hours). Add HCl (4 drops of concentrated HCl) or $NaHSO_4$ to pH< 2.
- The samples above are needed when Method 8240 is used to analyze for volatile (or purgeable) organics, when Methods 8250 or 8270 are used to analyze for Base/Neutral/Acid (B/N/A) extractable organics, and when Method 8080 is used to analyze for pesticides and PCB's. Two of the 1-L bottles are needed for 8250 or 8270 and two for 8080.
- Oil and Grease, Total Organic Carbon (TOC) or TRPH. For each analyte, two 1-liter glass bottles (*Teflon*-lined cap), 5 mL 1:1 HCl (to pH < 2), and 4°C.

(b) Paperwork/Labels: COC Record. It is important to note that only <u>one</u> site is listed per form even if the sites have the same sample project number. Top original goes with the samples; a copy will be saved for the sampler's files.

- Receipt for Samples. This form complies with the requirements that the operator or agent-in-charge is legally entitled to: (1) a

receipt describing the samples obtained from the site and (2) a portion of each sample equal in weight or volume to the portion retained, if requested. The original form is retained for the Project Coordinator and a copy is given to the operator or agent-in-charge.

- Sample Labels. Samples will be labeled with a date, time of collection, site name, and brief description on a label that will not float/soak off. Numbered sample labels will be used on all samples.

(c) Packaging and Shipping.

- Waterproof metal (or equivalent strength plastic) ice chests or coolers will be used.

Method:

1. After filling out the pertinent information on the sample label, place the label onto the closed sample container.

2. Mark volume level on bottle with grease pencil.

3. Place about 3 inches of inert cushioning material such as vermiculite in the bottom of the cooler.

4. Enclose the bottles in clear plastic bags through which sample labels are visible, and seal the bag. Place bottles upright in the cooler so that they do not touch and will not touch during shipment.

5. Add additional inert packing material to partially cover sample bottles (more than halfway) and place bags of ice around, among, and on top of the sample.

6. Fill cooler with cushioning material.

7. Seal paperwork (COC record) in a waterproof plastic bag and place in the cooler, securing it to the lid with the tape if necessary.

7. Tape the drain shut.

8. Secure lid by taping. Wrap the cooler completely with strapping tape at a minimum of two locations. Do not cover any labels.

10. Attach completed shipping label to top of the cooler.

11. Put "This Side Up" labels on all four sides and "Fragile" labels on at least two sides.

12. Affix numbered and signed custody seals on front right and back left of cooler. Cover seals with wide, clear tape.

b. Soils/Sediments

(1) (Organic and Inorganic)

(a) Bottle and Preservative Requirements:

- Two 8-ounce glass wide mouth jars at least 3/4 full *Teflon*-lined), iced to 4°C - one jar for organics (non-VOA) and one jar for inorganic. For analysis of volatile in soil, two 40 mL VOA vials or two 125 mL jars with *Teflon* septa are used. These will be completely filled and iced to 4°C.

(b) Paperwork/Labels: Paperwork requirements are the same as those samples in Section 4.2.2 C. 3 (b) above.

(c) Packaging and Shipping: Packaging and shipping requirements are the same as those listed in Section 4.2.2 C 3 (c) above.

4. *Medium Concentration Samples:*

a. Water/Liquids (Organics and Inorganic)

**Note: Samples are <u>not</u> known to contain highly toxic compounds.

(a) Bottle and Preservative Requirements:

- Four 32-ounce wide mouth glass jars (*Teflon*-lined caps), no preservatives, and iced to 4ºC for B/N/A extractable organics and PCB Pesticides (two jars for each method).
- Two 40 mL glass VOA vials (*Teflon* septa), Iced to 4ºC. Fill completely. No head space needed.
- Two 16-ounce wide mouth glass jars nearly full (*Teflon*-lined caps) one for metals and one for cyanide. (Preserved for low levels). See Section 4.2.2 C 3(b).

(b) Paperwork/Labels: Paperwork requirements are the same as those listed in Section 4.2.2 C 3(b) for low concentration samples.

(c) Packaging and Shipping: Packaging and shipping requirements are the same as those listed in Section 4.2.2 C 3 (c) above.

Method:

1. Sample jar lids will be secured with strapping tape or evidence tape. At the same time, string from USEPA numbered tag will be secured around lid.
2. Mark volume level of bottle with grease pencil.
3. Position jar in Ziploc bag so that tags may be read.
4. Place about 1/2 inch of cushioning material in the bottom of metal can.
5. Place jar in can and fill remaining volume of can with cushioning material.
6. Close the can using three clips to secure lid.
7. Write sample number on the can lid. Indicate "This Side Up" by drawing an arrow and place "Flammable Liquid N.O.S." label on can. Personnel who ship samples must be sure to comply with DOT shipping regulations and not knowingly <u>over-classify</u> a sample prior to shipment. If the person shipping a sample <u>knows</u> that the sample is not "Flammable Liquid" (i.e., a water phase sample or a soil sample), he should not classify it as "Flammable Liquid."
8. Place about 1 inch of packing material in bottom of cooler.
9. Place cans in cooler and fill remaining volume of cooler with packing material. Add ice bags if required.
10. Put paperwork in plastic bags and tape with masking tape to inside lid of cooler.
11. Tape drain shut.

12. After acceptance by shipper, tape cooler completely around with strapping tape at two locations. Secure lid by taping. Do not cover any labels.

13. Place lab address on top of cooler.

** Note: Write "Flammable Liquid N.O.S." on side of cooler if this is not marked on the margin of your DOT label.

14. For all medium and high concentration shipments, complete shipper's hazardous material certification form.

15. Put "This Side Up" labels on all four sides, "Flammable Liquid N.O.S." and "Danger-Peligro" on all sides.

** Note:"Danger-Peligro" labels should be used only when net quantity of samples in cooler exceeds 1 quart (32 ounces) for liquids or 25 pounds for solids. In other words, for our purposes "Danger-Peligro" labels will never be used for Flammable Solids N.O.S.

16. Affix number custody seals on front right and back left of cooler. Cover seals with wide, clear tape.

b. Soils/Sediments/Solids (Organics and Inorganic)

(a) Bottles and Preservatives Requirements:

- For analysis of volatile, two 40 mL VOA vials or two 125 mL jars with *Teflon* septa are used. These should be completely filled and iced to 4°C.
- Two 8-ounce wide mouth glass jars, 3/4 full (*Teflon*-lined caps), no preservative; two jars for organic (non-VOA) and two jars for inorganic.

(b). Paperwork/Labels: See previous examples. Paperwork requirements are the same as those listed in Section 4.2.2. C 3(c) for low concentration samples.

(c). Packaging and Shipping: Packaging and shipping requirements are listed in Section 4.2.2. C 3(c) for medium concentration water/liquids above, substituting "Flammable Liquid N.O.S." with "Flammable Solid N.O.S."

5. High Concentration Samples (Hazardous: Determined Not to be D.O.T.-Defined Poison A): High concentration samples include those from drums, tanks, surface impoundments, direct discharges, and spills, where there is little or no evidence of environmental dilution. High concentration (or high hazard) samples are suspected to contain greater than 15% concentration of any individual chemical constituent.

a. Liquids (Organics and Inorganic).

(a.) Bottle and Preservative Requirements: One 8-ounce wide mouth glass jar filled 1/2 to 3/4 full (*Teflon*-lined cap). No preservative.

(b.) Paperwork/Labels: Paperwork requirements are the same as those listed in Section 4.2.2 C 3(b) above.

Shipper may require special forms to be completed before shipment of high hazard concentration samples.

(c.) Packaging and Shipping: Packaging and shipping requirements are the same as those in Section 4.2.2. C 3(c) above for medium concentration water/liquids.

b. Soils/Sediments/Solids (Organics and Inorganic):

(a.) Bottle and Preservative Requirements: One 8-ounce wide-mouth glass jar filled 1/2 to 3/4 full (*Teflon*- lined cap). No preservative.

(b.) Paperwork/Labels: Paperwork requirements are the same as those listed in Section 4.2.2 C 3(b) above.

(c.) Packaging and Shipping: Packaging and shipping requirements are the same as those listed in Section 4.2.2. C 3(c) for medium concentration water/liquids, substituting "Flammable Liquid N.O.S." with "Flammable Solid N.O.S."

1. B/N/A = Base/Neutral/Acid extractables; TRPH = Total Recoverable Petroleum Hydrocarbons.

2. All containers must have *Teflon*-lined seals (*Teflon*-lined septa for VOA vials).

G = Glass; P = High density polyethylene.

3. Sample preservation will be done in the field immediately upon sample collection. If water samples are filtered in the field, differential pressure methods using 45 micron filters will be used, and preservative added after filtration VOA samples should never be filtered.

4. When only one holding time is given, it implies total holding time from sampling until analysis.

5. Three bottles are required on at least 5-10% (but at least one) sample so that laboratory can perform all method QC checks for SW-856 method.

6. Total Recoverable Metals for water samples. Holding time for Hg is 28 days in glass; for Cr(VI) is 24 hours.

7. $C1^-$, Br^-, F^-, NO_{3-}, NO_{2-}, PO_{43-}, SO_{42}; 1 L for each method; orthophosphate requires filtration. Holding time for extraction is 48 hours for NO_{2-}, NO_{3-}, and PO_4^- if not preserved with H_2SO_4 to pH < 2.

8. Samples with residual chlorine present will dechlorinated with sodium thiosulfate as specified in SW-846 (Third edition).

9. Holding times for medium concentration samples are the same as those specified for low concentration samples.