

Analytical Report for

EA Engineering

Certificate of Analysis No.: 10072623

Project Manager: Pete Lekas

Project Name : Gude Landfill

Project Location: Rockville, MD

Project ID : 6219608



August 4, 2010

Phase Separation Science, Inc.

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PHASE SEPARATION SCIENCE, INC.



August 4, 2010

Pete Lekas
EA Engineering
15 Loveton Circle
Sparks, MD 21152

Reference: PSS Work Order No: **10072623**
Project Name : Gude Landfill
Project Location: Rockville, MD
Project ID.: 6219608

Dear Pete Lekas :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10072623**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 24, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal

Laboratory Manager



Case Narrative Summary
Client Name: EA Engineering
Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10072623

The following samples were received under chain of custody by Phase Separation Science (PSS) on 07/26/2010 at 05:00 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10072623-001	Gude-OB11A-GW	GROUND WATER	07/26/2010 10:57
10072623-002	TB-1	WATER	07/26/2010 10:57
10072623-003	Gude-OB11-GW	GROUND WATER	07/26/2010 12:06
10072623-004	TB-2	WATER	07/26/2010 12:06
10072623-005	Gude-GW-DUP1	GROUND WATER	07/26/2010 00:00
10072623-006	TB-3	WATER	07/26/2010 00:00
10072623-007	Gude-OB025-GW	GROUND WATER	07/26/2010 13:33
10072623-008	TB-4	WATER	07/26/2010 13:33
10072623-009	Gude-OB06-GW	GROUND WATER	07/26/2010 14:25
10072623-010	TB-7	WATER	07/26/2010 14:25
10072623-011	Gude-OB07-GW	GROUND WATER	07/26/2010 12:15
10072623-012	TB-5	WATER	07/26/2010 12:15
10072623-013	Gude-OB07A-GW	GROUND WATER	07/26/2010 13:15
10072623-014	TB-6	WATER	07/26/2010 13:15

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Total Metals (waters):
 PB exceeds acceptance criteria for: Cu = 0.62ppb
 Opening and Closing CCV's have a Hg recovery of 88% and 84% respectively, limits are 90-110%.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11A-GW **Date/Time Sampled: 07/26/2010 10:57** **PSS Sample ID: 10072623-001**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Arsenic	1.3	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Barium	150	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Beryllium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Cadmium	3.2	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Chromium	3.0	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Cobalt	34	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Copper	3.0	ug/L	1.0	B	1	0.5	07/28/10	07/28/10 16:14	1033
Lead	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Mercury	0.2	ug/L	0.20		1	0.1	07/28/10	07/31/10 02:26	1033
Nickel	25	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Silver	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:14	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:14	1033
Vanadium	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:14	1033
Zinc	27	ug/L	10		1	10	07/28/10	07/28/10 16:14	1033

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Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:28	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 13:28	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 13:28	1029

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Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:28	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 12:41	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 12:41	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 12:41	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 12:41	1029

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Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	17	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Vinyl Chloride	15	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/30/10 10:12	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/30/10 10:12	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Methylene Chloride	3	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
trans-1,2-Dichloroethene	5	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,1-Dichloroethane	29	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/30/10 10:12	1014
cis-1,2-Dichloroethene	180	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,2-Dichloroethane	4	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Benzene	7	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,2-Dichloropropane	7	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/30/10 10:12	1014
Trichloroethene	41	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/30/10 10:12	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 10:12	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11A-GW **Date/Time Sampled: 07/26/2010 10:57** **PSS Sample ID: 10072623-001**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/30/10 10:12	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/30/10 10:12	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/30/10 10:12	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 10:12	1014
Tetrachloroethene	46	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Chlorobenzene	34	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/30/10 10:12	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,3-Dichlorobenzene	0.7	ug/L	1	J	1	0.5	07/30/10	07/30/10 10:12	1014
1,4-Dichlorobenzene	15	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,2-Dichlorobenzene	2	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/30/10 10:12	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:12	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/30/10 10:12	1014
Ethene, ethyloxy- (TIC)	11	ug/L	5		1	5	07/30/10	07/30/10 10:12	1014

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August 4, 2010

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 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11A-GW **Date/Time Sampled: 07/26/2010 10:57** **PSS Sample ID: 10072623-001**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 14:46	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11A-GW **Date/Time Sampled: 07/26/2010 10:57** **PSS Sample ID: 10072623-001**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 14:46	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 14:46	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 14:46	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 14:46	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11A-GW **Date/Time Sampled: 07/26/2010 10:57** **PSS Sample ID: 10072623-001**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
2,6,10,14,18,22-Tetracosahexaene, (TIC)	6	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014
Benzene, chloro- (TIC)	5	ug/L	5		1	2.5	07/29/10	07/30/10 14:46	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-1 Date/Time Sampled: 07/26/2010 10:57 PSS Sample ID: 10072623-002
Matrix: WATER Date/Time Received: 07/26/2010 17:00

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/30/10 11:37	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/30/10 11:37	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/30/10 11:37	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Benzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/30/10 11:37	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/30/10 11:37	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 11:37	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
EA Engineering, Sparks, MD
August 4, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-1	Date/Time Sampled: 07/26/2010 10:57	PSS Sample ID: 10072623-002
Matrix: WATER	Date/Time Received: 07/26/2010 17:00	

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

Compound Name	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/30/10 11:37	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/30/10 11:37	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/30/10 11:37	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 11:37	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/30/10 11:37	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,1,1,2,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/30/10 11:37	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:37	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/30/10 11:37	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Arsenic	1.3	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Barium	22	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Beryllium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Cadmium	10	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Chromium	1.9	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Cobalt	1.8	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Copper	4.5	ug/L	1.0	B	1	0.5	07/28/10	07/28/10 16:21	1033
Lead	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Mercury	3.5	ug/L	0.20		1	0.1	07/28/10	07/31/10 02:33	1033
Nickel	37	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Silver	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:21	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:21	1033
Vanadium	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:21	1033
Zinc	51	ug/L	10		1	10	07/28/10	07/28/10 16:21	1033

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 13:56	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 13:56	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 13:56	1029

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 10:56	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 14:51	1029
2,4,5-TP (Silvex)	0.1	ug/L	0.2	J	1	0.1	07/30/10	08/02/10 14:51	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 14:51	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 14:51	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	22	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Vinyl Chloride	13	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/30/10 03:59	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/30/10 03:59	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Methylene Chloride	28	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
trans-1,2-Dichloroethene	6	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,1-Dichloroethane	34	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/30/10 03:59	1014
cis-1,2-Dichloroethene	210	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,2-Dichloroethane	4	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Benzene	8	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,2-Dichloropropane	8	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/30/10 03:59	1014
Trichloroethene	48	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/30/10 03:59	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 03:59	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Toluene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
2-Hexanone	ND	ug/L	5		1	5	07/29/10	07/30/10 03:59	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Acrolein	ND	ug/L	20		1	10	07/29/10	07/30/10 03:59	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Bromoform	ND	ug/L	5		1	2.5	07/29/10	07/30/10 03:59	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 03:59	1014
Tetrachloroethene	58	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Chlorobenzene	44	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/29/10	07/30/10 03:59	1014
Styrene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
o-Xylene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,3-Dichlorobenzene	0.9	ug/L	1	J	1	0.5	07/29/10	07/30/10 03:59	1014
1,4-Dichlorobenzene	14	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,2-Dichlorobenzene	3	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/29/10	07/30/10 03:59	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Naphthalene	1	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 03:59	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/29/10	07/30/10 03:59	1014
Ethyl ether (TIC)	12	ug/L	5		1	5	07/29/10	07/30/10 03:59	1014
Methane, dichlorofluoro- (TIC)	34	ug/L	5		1	5	07/29/10	07/30/10 03:59	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 15:14	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 15:14	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 15:14	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 15:14	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 15:14	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB11-GW **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-003**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Benzene, chloro- (TIC)	7	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014
Tetrachloroethylene (TIC)	5	ug/L	5		1	2.5	07/29/10	07/30/10 15:14	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-2 **Date/Time Sampled: 07/26/2010 12:06** **PSS Sample ID: 10072623-004**
Matrix: WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/29/10 23:19	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/29/10 23:19	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/29/10 23:19	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Benzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/29/10 23:19	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/29/10 23:19	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/29/10 23:19	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-2	Date/Time Sampled: 07/26/2010 12:06	PSS Sample ID: 10072623-004
Matrix: WATER	Date/Time Received: 07/26/2010 17:00	

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Toluene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
2-Hexanone	ND	ug/L	5		1	5	07/29/10	07/29/10 23:19	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Acrolein	ND	ug/L	20		1	10	07/29/10	07/29/10 23:19	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Bromoform	ND	ug/L	5		1	2.5	07/29/10	07/29/10 23:19	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/29/10	07/29/10 23:19	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/29/10	07/29/10 23:19	1014
Styrene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
o-Xylene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/29/10	07/29/10 23:19	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Naphthalene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 23:19	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/29/10	07/29/10 23:19	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Arsenic	1.3	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Barium	21	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Beryllium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Cadmium	10	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Chromium	1.5	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Cobalt	1.7	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Copper	4.2	ug/L	1.0	B	1	0.5	07/28/10	07/28/10 16:27	1033
Lead	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Mercury	3.3	ug/L	0.20		1	0.1	07/28/10	07/31/10 02:39	1033
Nickel	36	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Silver	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:27	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:27	1033
Vanadium	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:27	1033
Zinc	50	ug/L	10		1	10	07/28/10	07/28/10 16:27	1033

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:24	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 14:24	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 14:24	1029

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:25	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 13:13	1029
2,4,5-TP (Silvex)	0.1	ug/L	0.2	J	1	0.1	07/30/10	08/02/10 13:13	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 13:13	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 13:13	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	24	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Vinyl Chloride	13	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/30/10 10:40	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/30/10 10:40	1014
1,1-Dichloroethene	0.8	ug/L	1	J	1	0.5	07/30/10	07/30/10 10:40	1014
Methylene Chloride	28	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
trans-1,2-Dichloroethene	6	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,1-Dichloroethane	35	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/30/10 10:40	1014
cis-1,2-Dichloroethene	210	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,2-Dichloroethane	4	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Benzene	8	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,2-Dichloropropane	8	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/30/10 10:40	1014
Trichloroethene	48	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/30/10 10:40	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 10:40	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/30/10 10:40	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/30/10 10:40	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/30/10 10:40	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 10:40	1014
Tetrachloroethene	59	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Chlorobenzene	44	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/30/10 10:40	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,3-Dichlorobenzene	0.9	ug/L	1	J	1	0.5	07/30/10	07/30/10 10:40	1014
1,4-Dichlorobenzene	14	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,2-Dichlorobenzene	3	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/30/10 10:40	1014
1,2,4-Trichlorobenzene	0.5	ug/L	1	J	1	0.5	07/30/10	07/30/10 10:40	1014
Naphthalene	1	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 10:40	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/30/10 10:40	1014
Ethyl ether (TIC)	12	ug/L	5		1	5	07/30/10	07/30/10 10:40	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 15:42	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 15:42	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 15:42	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 15:42	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 15:42	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP1 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-005**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Tetrachloroethylene (TIC)	9	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014
Benzene, chloro- (TIC)	10	ug/L	5		1	2.5	07/29/10	07/30/10 15:42	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-3 **Date/Time Sampled: 07/26/2010 00:00** **PSS Sample ID: 10072623-006**
Matrix: WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/30/10 11:08	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/30/10 11:08	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/30/10 11:08	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Benzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/30/10 11:08	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/30/10 11:08	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 11:08	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-3 Date/Time Sampled: 07/26/2010 00:00 PSS Sample ID: 10072623-006
Matrix: WATER Date/Time Received: 07/26/2010 17:00

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/30/10 11:08	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/30/10 11:08	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/30/10 11:08	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 11:08	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/30/10 11:08	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/30/10 11:08	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 11:08	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/30/10 11:08	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Arsenic	0.9	ug/L	1.0	J	1	0.5	07/28/10	07/28/10 16:34	1033
Barium	150	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Beryllium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Cadmium	0.6	ug/L	1.0	J	1	0.5	07/28/10	07/28/10 16:34	1033
Chromium	3.5	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Cobalt	41	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Copper	8.5	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Lead	1.3	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Mercury	0.1	ug/L	0.20		1	0.1	07/28/10	07/31/10 02:46	1033
Nickel	22	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Silver	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:34	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:34	1033
Vanadium	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:34	1033
Zinc	46	ug/L	10		1	10	07/28/10	07/28/10 16:34	1033

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 14:52	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 14:52	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 14:52	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 15:24	1029
2,4,5-TP (Silvex)	0.2	ug/L	0.2		1	0.1	07/30/10	08/02/10 15:24	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 15:24	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 15:24	1029

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CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Vinyl Chloride	3	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/30/10 04:27	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/30/10 04:27	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,1-Dichloroethane	2	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/30/10 04:27	1014
cis-1,2-Dichloroethene	11	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Benzene	1	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/30/10 04:27	1014
Trichloroethene	2	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/30/10 04:27	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 04:27	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Toluene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
2-Hexanone	ND	ug/L	5		1	5	07/29/10	07/30/10 04:27	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Acrolein	ND	ug/L	20		1	10	07/29/10	07/30/10 04:27	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Bromoform	ND	ug/L	5		1	2.5	07/29/10	07/30/10 04:27	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 04:27	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Chlorobenzene	3	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/29/10	07/30/10 04:27	1014
Styrene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
o-Xylene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,4-Dichlorobenzene	3	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/29/10	07/30/10 04:27	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Naphthalene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 04:27	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/29/10	07/30/10 04:27	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 16:09	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014

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CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 16:09	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 16:09	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 16:09	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 16:09	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB025-GW **Date/Time Sampled: 07/26/2010 13:33** **PSS Sample ID: 10072623-007**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:09	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Arsenic	3.7	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Barium	220	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Beryllium	0.8	ug/L	1.0	J	1	0.5	07/28/10	07/28/10 16:40	1033
Cadmium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Chromium	25	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Cobalt	9.4	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Copper	43	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Lead	15	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Mercury	1.9	ug/L	0.20		1	0.1	07/28/10	07/31/10 02:53	1033
Nickel	29	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Silver	2.7	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:40	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:40	1033
Vanadium	25	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:40	1033
Zinc	89	ug/L	10		1	10	07/28/10	07/28/10 16:40	1033

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:20	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 15:20	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 15:20	1029

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Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 13:46	1029
2,4,5-TP (Silvex)	0.1	ug/L	0.2	J	1	0.1	07/30/10	08/02/10 13:46	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 13:46	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 13:46	1029

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EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
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Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/30/10 05:23	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/30/10 05:23	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/30/10 05:23	1014
cis-1,2-Dichloroethene	2	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Benzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/30/10 05:23	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/30/10 05:23	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 05:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Toluene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
2-Hexanone	ND	ug/L	5		1	5	07/29/10	07/30/10 05:23	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Acrolein	ND	ug/L	20		1	10	07/29/10	07/30/10 05:23	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Bromoform	ND	ug/L	5		1	2.5	07/29/10	07/30/10 05:23	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 05:23	1014
Tetrachloroethene	0.6	ug/L	1	J	1	0.5	07/29/10	07/30/10 05:23	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/29/10	07/30/10 05:23	1014
Styrene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
o-Xylene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/29/10	07/30/10 05:23	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Naphthalene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 05:23	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/29/10	07/30/10 05:23	1014

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CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 16:37	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 16:37	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 16:37	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 16:37	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 16:37	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB06-GW **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-009**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 16:37	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-7 **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-010**
Matrix: WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/29/10 22:59	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/29/10 22:59	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/29/10 22:59	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Benzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/29/10 22:59	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/29/10 22:59	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/29/10 22:59	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-7 **Date/Time Sampled: 07/26/2010 14:25** **PSS Sample ID: 10072623-010**
Matrix: WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Toluene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
2-Hexanone	ND	ug/L	5		1	5	07/29/10	07/29/10 22:59	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Acrolein	ND	ug/L	20		1	10	07/29/10	07/29/10 22:59	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Bromoform	ND	ug/L	5		1	2.5	07/29/10	07/29/10 22:59	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/29/10	07/29/10 22:59	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/29/10	07/29/10 22:59	1014
Styrene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
o-Xylene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/29/10	07/29/10 22:59	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Naphthalene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/29/10 22:59	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/29/10	07/29/10 22:59	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Arsenic	0.5	ug/L	1.0	J	1	0.5	07/28/10	07/28/10 16:47	1033
Barium	19	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Beryllium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Cadmium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Chromium	1.0	ug/L	1.0	J	1	0.5	07/28/10	07/28/10 16:47	1033
Cobalt	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Copper	2.4	ug/L	1.0	B	1	0.5	07/28/10	07/28/10 16:47	1033
Lead	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Mercury	0.7	ug/L	0.20		1	0.1	07/28/10	07/31/10 02:59	1033
Nickel	0.8	ug/L	1.0	J	1	0.5	07/28/10	07/28/10 16:47	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Silver	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:47	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:47	1033
Vanadium	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:47	1033
Zinc	13	ug/L	10		1	10	07/28/10	07/28/10 16:47	1033

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 20:00	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 20:00	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 20:00	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 15:56	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 15:56	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 15:56	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 15:56	1029

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CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/30/10 12:05	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/30/10 12:05	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/30/10 12:05	1014
cis-1,2-Dichloroethene	2	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Benzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/30/10 12:05	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/30/10 12:05	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 12:05	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/30/10 12:05	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/30/10 12:05	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/30/10 12:05	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 12:05	1014
Tetrachloroethene	1	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/30/10 12:05	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/30/10 12:05	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:05	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/30/10 12:05	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 17:05	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 17:05	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 17:05	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 17:05	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 17:05	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07-GW **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-011**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:05	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-5 **Date/Time Sampled: 07/26/2010 12:15** **PSS Sample ID: 10072623-012**
Matrix: WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/30/10 23:40	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/30/10 23:40	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/30/10 23:40	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Benzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/30/10 23:40	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/30/10 23:40	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 23:40	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 23:40	1014

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Arsenic	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Barium	31	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Beryllium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Cadmium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Chromium	1.0	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Cobalt	1.5	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Copper	2.9	ug/L	1.0	B	1	0.5	07/28/10	07/28/10 16:53	1033
Lead	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Mercury	1.2	ug/L	0.20		1	0.1	07/28/10	07/31/10 03:06	1033
Nickel	3.6	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Selenium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Silver	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Thallium	ND	ug/L	1.0		1	0.5	07/28/10	07/28/10 16:53	1033
Tin	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:53	1033
Vanadium	ND	ug/L	5.0		1	2.5	07/28/10	07/28/10 16:53	1033
Zinc	11	ug/L	10		1	10	07/28/10	07/28/10 16:53	1033

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CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 15:48	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 15:48	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 15:48	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 14:19	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 14:19	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 14:19	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 14:19	1029

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CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/30/10 12:33	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/30/10 12:33	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/30/10 12:33	1014
cis-1,2-Dichloroethene	3	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Benzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/30/10 12:33	1014
Trichloroethene	0.8	ug/L	1	J	1	0.5	07/30/10	07/30/10 12:33	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/30/10 12:33	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 12:33	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/30/10 12:33	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/30/10 12:33	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/30/10 12:33	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 12:33	1014
Tetrachloroethene	2	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/30/10 12:33	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/30/10 12:33	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/30/10 12:33	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/30/10 12:33	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 17:33	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 17:33	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/30/10 17:33	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/30/10 17:33	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/30/10 17:33	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB07A-GW **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-013**
Matrix: GROUND WATER **Date/Time Received: 07/26/2010 17:00**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/30/10 17:33	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	07/30/10	07/30/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623
 EA Engineering, Sparks, MD
 August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-6 **Date/Time Sampled: 07/26/2010 13:15** **PSS Sample ID: 10072623-014**
Matrix: WATER **Date/Time Received: 07/26/2010 17:00**

Volatile Organic Compounds			Analytical Method: SW846 8260B			Preparation Method: SW846 5030B			
<i>Library search was performed and TICs (if any) are listed below, values of TICs are estimated</i>									
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Chloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Bromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Chloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Acetone	ND	ug/L	5		1	5	07/29/10	07/30/10 00:00	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/29/10	07/30/10 00:00	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
2-Butanone	ND	ug/L	10		1	5	07/29/10	07/30/10 00:00	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Chloroform	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Benzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Acrylonitrile	ND	ug/L	10		1	5	07/29/10	07/30/10 00:00	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/29/10	07/30/10 00:00	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/29/10	07/30/10 00:00	1014

OFFICES:
 6630 BALTIMORE NATIONAL PIKE
 ROUTE 40 WEST
 BALTIMORE, MD 21228
 410-747-8770
 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072623

EA Engineering, Sparks, MD

August 4, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-6	Date/Time Sampled: 07/26/2010 13:15	PSS Sample ID: 10072623-014
Matrix: WATER	Date/Time Received: 07/26/2010 17:00	

Volatile Organic Compounds	Analytical Method: SW846 8260B		Preparation Method: SW846 5030B						
<i>Library search was performed and TICs (if any) are listed below, values of TICs are estimated</i>									
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Toluene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
2-Hexanone	ND	ug/L	5		1	5	07/29/10	07/30/10 00:00	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Acrolein	ND	ug/L	20		1	10	07/29/10	07/30/10 00:00	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Bromoform	ND	ug/L	5		1	2.5	07/29/10	07/30/10 00:00	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/29/10	07/30/10 00:00	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/29/10	07/30/10 00:00	1014
Styrene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
o-Xylene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/29/10	07/30/10 00:00	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Naphthalene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/29/10	07/30/10 00:00	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/29/10	07/30/10 00:00	1014



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: FA Engineering OFFICE LOC. Loveton PSS Work Order #: 10072623 PAGE 1 OF 2
 PROJECT MGR: Peter LeKas PHONE NO.: (410) 771-4950 Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe
 EMAIL: plekas@east.com FAX NO.: (410) 771-4204
 PROJECT NAME: Gude Landfill PROJECT NO.: 6219607
 SITE LOCATION: Rockville, MD P.O. NO.:
 SAMPLERS: Joe Sawicki / Faxton Wertz

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINERS		ANALYSIS METHOD REQUIRED	PRESERVATIVES USED	REMARKS
					No.	TYPE			
1	Gude-OB11A-GW	7/24/10	1057	GW	11	G	③	X	
2	TB-1		1057	GW	2	G		X	
3	Gude-OB11-GW		1206	GW	11	G		X	
4	TB-2		1206	GW	2	G		X	
5	Gude-GW-DUP 1			GW	11	G		X	
6	TB-3			GW	2	G		X	
7	Gude-OB005-GW		1333	GW	11	G		X	
8	TB-4		1333	GW	2	G		X	
9	Gude-OB006-GW		1425	GW	11	G		X	
10	TB-7		1425	GW	2	G		X	

5 Relinquished By: (1) [Signature] Received By: [Signature]
 Date: 7/26/10 Time: 1700
 Relinquished By: (2) _____ Received By: _____
 Date: _____ Time: _____
 Relinquished By: (3) _____ Received By: _____
 Date: _____ Time: _____
 Relinquished By: (4) _____ Received By: _____
 Date: _____ Time: _____

of Coolers: 8
 Custody Seal: ABS
 Ice Present: YES Temp: 11°C
 Shipping Carrier: QUENT
 Requested Turnaround Time: 5-Day 3-Day 2-Day
 Next Day Emergency Other
 Data Deliverables Required: EOO
 Special Instructions:



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC. Sparks, MD
 PROJECT MGR: Peter Lekas PHONE NO.: (410) 771-4950
 EMAIL: plekas@east.com FAX NO.: (410) 771-4264
 PROJECT NAME: Gude Landfill PROJECT NO.: 6219608
 SITE LOCATION: Rockville, MD P.O. NO.:
 SAMPLERS: Joe Sawicki/Paxton Wertz

PSS Work Order # 10072623 PAGE 2 OF 2
 Matrix Codes:
 SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WM=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	PRESERVATIVES		ANALYSIS METHOD REQUIRED	REMARKS
					Used	Analysed		
11	Gude-0807-GW	7/26/10	1215	GW	X		VOC 8260 Metals 6020 Herbicide 8151 Chlorinated Pesticide 8081 Organophosphorus Pesticides 8141 PCBS 2082 Cyanide 9010 Sulfide 9030	
12	TB-S		1215	GW	X			
13	Gude-0807A-GW		1315	GW	X			
14	TB-6		1315	GW	X			

2

3

4

5

Requested Turnaround Time: 5-Day 3-Day 2-Day
 Next Day Emergency Other

Data Deliverables Required: EOD

Special Instructions:

Relinquished By: (1) [Signature] Date: 7/26/10 Time: 1700 Received By: [Signature] Davis

Relinquished By: (2) [Signature] Date: Time: Received By:

Relinquished By: (3) Date: Time: Received By:

Relinquished By: (4) Date: Time: Received By:

of Coolers: 4
 Custody Seal: ABS
 Ice Present: ABS Temp: 110C
 Shipping Carrier: CUEENT

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10072623 Received By Rachel Davis
Client Name EA Engineering Date Received 07/26/2010 05:00:00 PM
Project Name Gude Landfill Delivered By Client
Project Number 6219608 Tracking No Not Applicable
Disposal Date: 09/24/2010 Logged In By Rachel Davis

Shipping Container(s)

No. of Coolers	8	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	11
Seal Condition	Not Applicable	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No Sampler Name: Joseph Sawicki
Chain of Custody (COC) Yes or No MD DW Cert. No.: N/A

Sample Container

Appropriate for Specified Analysis? Yes No Custody Seal(s) Absent
Intact? Custody Seal(s) Intact? Not Applicable
Labeled and Labels Legible Seal(s) Signed / Dated Not Applicable
Total No. of Samples Received 14 Total No. of Containers Received 91

Preservation

		Yes	No	N/A
Metals	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides	(pH>12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfide	(pH>9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: [Signature] Date: 7/27/10

PM Review and Approval: [Signature] Date: 7/29/10

ANALYTICAL REPORT

PROJECT NO. 6219608/10072623

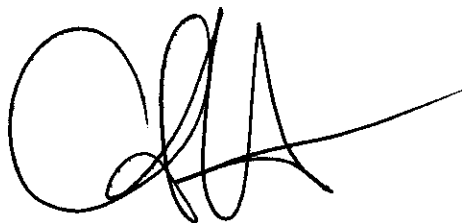
Phase Sep Science East Station

Lot #: COG280565

Betsy Orr

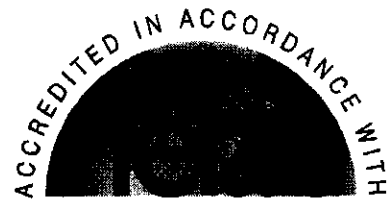
Phase Separation Sciences
6630 Baltimore National Pike
Route 40 West
Baltimore, MD 21228

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch
Project Manager

August 13, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW	X
US Dept of Agriculture	(#P330-10-00139)	HW	X
Arkansas	(#88-0690)	Foreign Soil Import Permit	X
California – NELAC	04224CA	WW	X
Connecticut	(#PH-0688)	HW	X
Florida – NELAC	(#E871008)	WW	X
Illinois – NELAC	(#002319)	HW	X
Kansas – NELAC	(#E-10350)	WW	X
Louisiana – NELAC	(#04041)	HW	X
New Hampshire – NELAC	(#203010)	WW	X
New Jersey – NELAC	(PA-005)	--	--
New York – NELAC	(#11182)	WW	X
North Carolina	(#434)	HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
South Carolina	(#89014002)	HW	X
Utah – NELAC	(STLP)	WW	X
West Virginia	(#142)	HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pittsburgh_Updated 051910.doc

CASE NARRATIVE

Phase Separation Sciences

Lot # C0G280565

Sample Receiving:

TestAmerica Pittsburgh received samples on July 28, 2010. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

OPP's:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.

Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Phone: (410) 747-8770
 Fax: (410) 788-8723

W.O. No.: 10072623

P.O. No.:

Project Name: Gude Landfill

Project Number: 6219608

Samples Transferred To:
 Test America

5710 Executive Drive, Suite 106
 Catonsville, MD 21228

Contact: Ken Ives
 Phone: 410-869-0085

For Questions or issues please contact: John Slowikowski

Report Due On: ~~08/10/08~~ TEST AMERICA STANDARD

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10072623-001	Gude-OB11A-GW	07/26/10	10:57	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-001	Gude-OB11A-GW	07/26/10	10:57	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072623-003	Gude-OB11-GW	07/26/10	12:06	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-003	Gude-OB11-GW	07/26/10	12:06	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072623-005	Gude-GW-DUP1	07/26/10	09:00	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-005	Gude-GW-DUP1	07/26/10	09:00	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072623-007	Gude-OB025-GW	07/26/10	13:33	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-007	Gude-OB025-GW	07/26/10	13:33	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072623-009	Gude-OB06-GW	07/26/10	14:25	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-009	Gude-OB06-GW	07/26/10	14:25	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072623-011	Gude-OB07-GW	07/26/10	12:15	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-011	Gude-OB07-GW	07/26/10	12:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072623-013	Gude-OB07A-GW	07/26/10	13:15	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072623-013	Gude-OB07A-GW	07/26/10	13:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: Results, copy of COC and QC

Perform Q.C. on Sample:

Send Report Attn:

Airbill No.: _____ Carrier: _____

Condition Upon Receipt: _____

Comments: * SEE ATTACHED FOR ANALYTE LIST

Samples Relinquished By: *[Signature]* Date: 7/27/10 Time: 10:12

Samples Relinquished By: *[Signature]* Date: 7/27/10 Time: 10:50

Samples Relinquished By: _____ Date: _____ Time: _____

Samples Received By: *[Signature]*

Samples Received By: *[Signature]* 7/28/10 1000

Samples Received By: _____

Sub-Contractor

Method

Matrix

Analyte Name

METHODS SUMMARY

COG280565

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

COG280565

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L4TFP	001	GUDE-OB11A-GW	07/26/10	10:57
L4TFT	002	GUDE-OB11-GW	07/26/10	12:06
L4TFV	003	GUDE-GW-DUP1	07/26/10	
L4TFW	004	GUDE-OB025-GW	07/26/10	13:33
L4TF0	005	GUDE-OB06-GW	07/26/10	14:25
L4TF1	006	GUDE-OB07-GW	07/26/10	12:15
L4TF2	007	GUDE-OB07A-GW	07/26/10	13:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUDE-OB11A-GW

GC Semivolatiles

Lot-Sample #...: C0G280565-001 Work Order #...: L4TFP1AC Matrix.....: WATER
 Date Sampled...: 07/26/10 Date Received..: 07/28/10 MS Run #.....:
 Prep Date.....: 07/29/10 Analysis Date..: 08/01/10
 Prep Batch #...: 0210302 Analysis Time..: 00:40
 Dilution Factor: 0.99
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.99	ug/L
Dimethoate	ND	0.99	ug/L
Disulfoton	ND	0.99	ug/L
Famphur	ND	0.99	ug/L
Methyl parathion	ND	0.99	ug/L
Ethyl parathion	ND	0.99	ug/L
Phorate	ND	0.99	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	99	(45 - 145)	
Tributyl phosphate	107	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB11-GW

GC Semivolatiles

Lot-Sample #...: C0G280565-002 **Work Order #...**: L4TFT1AC **Matrix.....**: WATER
Date Sampled...: 07/26/10 **Date Received..**: 07/28/10 **MS Run #.....**:
Prep Date.....: 07/29/10 **Analysis Date..**: 08/01/10
Prep Batch #...: 0210302 **Analysis Time..**: 01:07
Dilution Factor: 0.98

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	95	(45 - 145)	
Tributyl phosphate	104	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-GW-DUP1

GC Semivolatiles

Lot-Sample #...: C0G280565-003 **Work Order #...**: L4TFV1AC **Matrix.....**: WATER
Date Sampled...: 07/26/10 **Date Received..**: 07/28/10 **MS Run #.....**:
Prep Date.....: 07/29/10 **Analysis Date..**: 08/01/10
Prep Batch #...: 0210302 **Analysis Time..**: 01:34
Dilution Factor: 0.99
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.99	ug/L
Ethyl parathion	ND	0.99	ug/L
Dimethoate	ND	0.99	ug/L
Disulfoton	ND	0.99	ug/L
Famphur	ND	0.99	ug/L
Methyl parathion	ND	0.99	ug/L
Phorate	ND	0.99	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	99	(45 - 145)	
Tributyl phosphate	108	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB025-GW

GC Semivolatiles

Lot-Sample #...: C0G280565-004 **Work Order #...**: L4TFW1AC **Matrix.....**: WATER
Date Sampled...: 07/26/10 **Date Received..**: 07/28/10 **MS Run #.....**:
Prep Date.....: 07/29/10 **Analysis Date..**: 08/01/10
Prep Batch #...: 0210302 **Analysis Time..**: 02:00
Dilution Factor: 1.01

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	1.0	ug/L
Ethyl parathion	ND	1.0	ug/L
Dimethoate	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Famphur	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	100	(45 - 145)	
Tributyl phosphate	107	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB06-GW

GC Semivolatiles

Lot-Sample #...: C0G280565-005 Work Order #...: L4TF01AC Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10 MS Run #.....:
Prep Date.....: 07/29/10 Analysis Date..: 08/01/10
Prep Batch #...: 0210302 Analysis Time..: 03:47
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	99	(45 - 145)	
Tributyl phosphate	101	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB07-GW

GC Semivolatiles

Lot-Sample #...: C0G280565-006 **Work Order #...**: L4TF11AC **Matrix.....**: WATER
Date Sampled...: 07/26/10 **Date Received..**: 07/28/10 **MS Run #.....**:
Prep Date.....: 07/29/10 **Analysis Date..**: 08/01/10
Prep Batch #...: 0210302 **Analysis Time..**: 04:14
Dilution Factor: 0.96

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.96	ug/L
Ethyl parathion	ND	0.96	ug/L
Dimethoate	ND	0.96	ug/L
Disulfoton	ND	0.96	ug/L
Famphur	ND	0.96	ug/L
Methyl parathion	ND	0.96	ug/L
Phorate	ND	0.96	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	98	(45 - 145)	
Tributyl phosphate	100	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB07A-GW

GC Semivolatiles

Lot-Sample #...: C0G280565-007 Work Order #...: L4TF21AC Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10 MS Run #.....:
Prep Date.....: 07/29/10 Analysis Date..: 08/01/10
Prep Batch #...: 0210302 Analysis Time..: 04:41
Dilution Factor: 0.96
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.96	ug/L
Dimethoate	ND	0.96	ug/L
Disulfoton	ND	0.96	ug/L
Famphur	ND	0.96	ug/L
Methyl parathion	ND	0.96	ug/L
Ethyl parathion	ND	0.96	ug/L
Phorate	ND	0.96	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	99	(45 - 145)
Tributyl phosphate	100	(49 - 122)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: COG280565
MB Lot-Sample #: COG290000-302
Analysis Date...: 08/01/10
Dilution Factor: 1

Work Order #...: L4VMJ1AE
Prep Date.....: 07/29/10
Prep Batch #...: 0210302

Matrix.....: WATER
Analysis Time...: 02:27

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Thionazin	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Ethyl parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	97	(45 - 145)
Tributyl phosphate	88	(49 - 122)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0G280565 Work Order #...: L4VMJ1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C0G290000-302 L4VMJ1AD-LCSD
 Prep Date.....: 07/29/10 Analysis Date..: 08/01/10
 Prep Batch #...: 0210302 Analysis Time..: 07:48
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Thionazin	93	(44 - 128)			SW846 8141A
	95	(44 - 128)	2.4	(0-21)	SW846 8141A
Phorate	103	(41 - 135)			SW846 8141A
	105	(41 - 135)	1.5	(0-24)	SW846 8141A
Disulfoton	93	(45 - 124)			SW846 8141A
	95	(45 - 124)	1.6	(0-30)	SW846 8141A
Methyl parathion	92	(41 - 148)			SW846 8141A
	95	(41 - 148)	2.4	(0-30)	SW846 8141A
Ethyl parathion	102	(56 - 125)			SW846 8141A
	102	(56 - 125)	0.29	(0-21)	SW846 8141A
Famphur	97	(52 - 131)			SW846 8141A
	100	(52 - 131)	2.5	(0-24)	SW846 8141A
Dimethoate	120	(26 - 136)			SW846 8141A
	122	(26 - 136)	1.6	(0-22)	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Triphenyl phosphate	98	(45 - 145)
	97	(45 - 145)
Tributyl phosphate	101	(49 - 122)
	102	(49 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Phase Separation Sciences

Client Sample ID: GUDE-OB11A-GW

General Chemistry

Lot-Sample #...: COG280565-001 Work Order #...: L4TFP Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB11-GW

General Chemistry

Lot-Sample #...: C0G280565-002

Work Order #...: L4TFT

Matrix.....: WATER

Date Sampled...: 07/26/10

Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-GW-DUP1

General Chemistry

Lot-Sample #...: C0G280565-003 Work Order #...: L4TFV Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB025-GW

General Chemistry

Lot-Sample #...: COG280565-004

Work Order #...: L4TFW

Matrix.....: WATER

Date Sampled...: 07/26/10

Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time.: 12:47	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB06-GW

General Chemistry

Lot-Sample #...: COG280565-005 Work Order #...: L4TF0 Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB07-GW

General Chemistry

Lot-Sample #...: COG280565-006 Work Order #...: L4TF1 Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB07A-GW

General Chemistry

Lot-Sample #...: C0G280565-007

Work Order #...: L4TF2

Matrix.....: WATER

Date Sampled...: 07/26/10

Date Received..: 07/28/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47	MS Run #.....:	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: COG280565

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L4TP41AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	COG290000-102 07/29/10	0210102
		Dilution Factor: 1				
		Analysis Time..: 12:47				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: C0G280565

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide		WO#:L4TP41AC-LCS/L4TP41AD-LCSD		LCS Lot-Sample#: C0G290000-102			
	99	(85 - 115)			SW846 9030B/9034	07/29/10	0210102
	100	(85 - 115)	1.2	(0-20)	SW846 9030B/9034	07/29/10	0210102
		Dilution Factor: 1		Analysis Time..: 12:47			

NOTE(S):

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

Analytical Report for

EA Engineering

Certificate of Analysis No.: 10072721

Project Manager: Pete Lekas

Project Name : Gude Landfill

Project Location: Rockville, MD

Project ID : 6219608



August 12, 2010

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



August 12, 2010

Pete Lekas
EA Engineering
15 Loveton Circle
Sparks, MD 21152

Reference: PSS Work Order No: **10072721**
Project Name : Gude Landfill
Project Location: Rockville, MD
Project ID.: 6219608

Dear Pete Lekas :

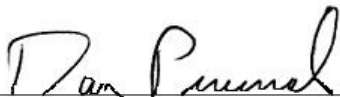
The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10072721**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 25, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.



Dan Prucnal
Laboratory Manager



Case Narrative Summary

Client Name: EA Engineering

Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10072721

The following samples were received under chain of custody by Phase Separation Science (PSS) on 07/27/2010 at 04:35 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10072721-001	Gude-OB102-GW	GROUND WATER	07/27/2010 10:35
10072721-002	TB-8	WATER	07/27/2010 10:35
10072721-003	Gude-MW2B-GW	GROUND WATER	07/27/2010 13:00
10072721-004	TB-9	WATER	07/27/2010 13:00
10072721-005	Gude-MW2A-GW	GROUND WATER	07/27/2010 14:05
10072721-006	TB-10	WATER	07/27/2010 14:05
10072721-007	Gude-OB08-GW	GROUND WATER	07/27/2010 11:40
10072721-008	TB-12	WATER	07/27/2010 11:40
10072721-009	Gude-OB08A-GW	GROUND WATER	07/27/2010 13:15
10072721-010	TB-13	WATER	07/27/2010 13:15

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

No matrix spike/ matrix spike duplicate analyzed for volatile batch 83993 due to instrument error. The laboratory control sample and laboratory control sample duplicate were analyzed acceptably.

SVOC:

Perylene-d12 fell below 50% in the following samples: -003, -005, -009.

Chrysene-d12 fell below 50% in sample -001. Closing CCV has a Mercury exceedance of 69% recovery; limits 90-110%

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Arsenic	2.8	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Barium	340	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:06	1034
Cadmium	1.7	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Chromium	8.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Cobalt	86	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Copper	100	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Lead	3.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 13:06	1034
Nickel	97	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Selenium	0.5	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 18:14	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Thallium	1.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 18:14	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 18:14	1034
Vanadium	8.1	ug/L	5.0		1	2.5	08/02/10	08/02/10 18:14	1034
Zinc	39	ug/L	10		1	10	08/02/10	08/02/10 18:14	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Endrin	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/29/10	07/30/10 17:40	1029
Toxaphene	ND	ug/L	10		5	5	07/29/10	07/30/10 17:40	1029
Chlordane	ND	ug/L	10		5	5	07/29/10	07/30/10 17:40	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 11:55	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 19:12	1029
2,4,5-TP (Silvex)	0.2	ug/L	0.2	J	1	0.1	07/30/10	08/02/10 19:12	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 19:12	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 19:12	1029

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 21:13	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 21:13	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 21:13	1014
cis-1,2-Dichloroethene	1	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 21:13	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 21:13	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 21:13	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 21:13	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 21:13	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 21:13	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 21:13	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Chlorobenzene	2	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 21:13	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 21:13	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 21:13	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 21:13	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 03:45	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 03:45	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 03:45	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/31/10 03:45	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 03:45	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB102-GW **Date/Time Sampled: 07/27/2010 10:35** **PSS Sample ID: 10072721-001**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:45	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Arsenic	0.8	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:02	1034
Barium	8.8	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:12	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Chromium	1.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Cobalt	2.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Copper	1.5	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:12	1034
Lead	0.5	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:02	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 13:12	1034
Nickel	3.8	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:02	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:02	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:02	1034
Zinc	13	ug/L	10		1	10	08/02/10	08/02/10 19:02	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Endrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:08	1029
Toxaphene	ND	ug/L	2		1	1	07/29/10	07/30/10 18:08	1029
Chlordane	ND	ug/L	2		1	1	07/29/10	07/30/10 18:08	1029

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 EA Engineering, Sparks, MD
 August 12, 2010

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 Project Location: Rockville, MD
 Project ID: 6219608

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Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:24	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 19:44	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 19:44	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 19:44	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 19:44	1029

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EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 19:20	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 19:20	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 19:20	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 19:20	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 19:20	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 19:20	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 19:20	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 19:20	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 19:20	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 19:20	1014
Tetrachloroethene	3	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 19:20	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 19:20	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:20	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 19:20	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 04:41	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 04:41	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 04:41	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/31/10 04:41	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 04:41	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2B-GW **Date/Time Sampled: 07/27/2010 13:00** **PSS Sample ID: 10072721-003**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:41	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Arsenic	2.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Barium	31	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:18	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Chromium	21	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Cobalt	7.9	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Copper	16	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Lead	6.8	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Mercury	0.1	ug/L	0.20		1	0.1	08/02/10	08/03/10 13:18	1034
Nickel	18	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:08	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:08	1034
Vanadium	7.3	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:08	1034
Zinc	31	ug/L	10		1	10	08/02/10	08/02/10 19:08	1034

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Endrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 18:36	1029
Toxaphene	ND	ug/L	2		1	1	07/29/10	07/30/10 18:36	1029
Chlordane	ND	ug/L	2		1	1	07/29/10	07/30/10 18:36	1029

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 12:53	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 20:17	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 20:17	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 20:17	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 20:17	1029

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No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 20:16	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 20:16	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 20:16	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 20:16	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 20:16	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 20:16	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 20:16	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 20:16	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 20:16	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 20:16	1014
Tetrachloroethene	3	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 20:16	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 20:16	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:16	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 20:16	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 04:13	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 04:13	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 04:13	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/31/10 04:13	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 04:13	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW2A-GW **Date/Time Sampled: 07/27/2010 14:05** **PSS Sample ID: 10072721-005**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 04:13	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Arsenic	1.9	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Barium	120	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:24	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Chromium	0.6	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:14	1034
Cobalt	8.1	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Copper	1.7	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:24	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 13:24	1034
Nickel	7.1	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:14	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:14	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:14	1034
Zinc	14	ug/L	10		1	10	08/02/10	08/02/10 19:14	1034

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Endrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:04	1029
Toxaphene	ND	ug/L	2		1	1	07/29/10	07/30/10 19:04	1029
Chlordane	ND	ug/L	2		1	1	07/29/10	07/30/10 19:04	1029

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:22	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 18:39	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 18:39	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 18:39	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 18:39	1029

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No: 10072721

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August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
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Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Vinyl Chloride	3	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 19:48	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 19:48	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,1-Dichloroethane	1	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 19:48	1014
cis-1,2-Dichloroethene	11	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Benzene	0.8	ug/L	1	J	1	0.5	07/31/10	07/31/10 19:48	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 19:48	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 19:48	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 19:48	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 19:48	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 19:48	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 19:48	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 19:48	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Chlorobenzene	4	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 19:48	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,4-Dichlorobenzene	3	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 19:48	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 19:48	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 19:48	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 03:18	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 03:18	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 03:18	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/31/10 03:18	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 03:18	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08-GW **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-007**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014
Squalene (TIC)	4	ug/L	5		1	2.5	07/29/10	07/31/10 03:18	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-12	Date/Time Sampled: 07/27/2010 11:40	PSS Sample ID: 10072721-008
Matrix: WATER	Date/Time Received: 07/27/2010 16:35	

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Chloromethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Bromomethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Chloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Acetone	ND	ug/L	5		1	5	07/30/10	07/31/10 00:04	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/30/10	07/31/10 00:04	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
2-Butanone	ND	ug/L	10		1	5	07/30/10	07/31/10 00:04	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Chloroform	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Benzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Acrylonitrile	ND	ug/L	10		1	5	07/30/10	07/31/10 00:04	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/30/10	07/31/10 00:04	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:04	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-12 **Date/Time Sampled: 07/27/2010 11:40** **PSS Sample ID: 10072721-008**
Matrix: WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>LOD</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/31/10 00:04	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/31/10 00:04	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:04	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:04	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/31/10 00:04	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/31/10 00:04	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:04	1014
Iodomethane (Methyl iodide)	ND	ug/L	20		1	10	07/30/10	07/31/10 00:04	1014

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Arsenic	3.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Barium	76	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:30	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Chromium	0.6	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:20	1034
Cobalt	17	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Copper	0.5	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:30	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 13:30	1034
Nickel	6.7	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:20	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:20	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:20	1034
Zinc	11	ug/L	10		1	10	08/02/10	08/02/10 19:20	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Endrin	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/29/10	07/30/10 19:32	1029
Toxaphene	ND	ug/L	2		1	1	07/29/10	07/30/10 19:32	1029
Chlordane	ND	ug/L	2		1	1	07/29/10	07/30/10 19:32	1029

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/29/10	07/30/10 13:52	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/30/10	08/02/10 20:49	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 20:49	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/30/10	08/02/10 20:49	1029
Dinoseb	ND	ug/L	1		1	0.5	07/30/10	08/02/10 20:49	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Vinyl Chloride	3	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 20:45	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 20:45	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
trans-1,2-Dichloroethene	0.9	ug/L	1	J	1	0.5	07/31/10	07/31/10 20:45	1014
1,1-Dichloroethane	1	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 20:45	1014
cis-1,2-Dichloroethene	16	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Benzene	0.9	ug/L	1	J	1	0.5	07/31/10	07/31/10 20:45	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 20:45	1014
Trichloroethene	0.8	ug/L	1	J	1	0.5	07/31/10	07/31/10 20:45	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 20:45	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 20:45	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 20:45	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 20:45	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 20:45	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 20:45	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Chlorobenzene	5	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 20:45	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,4-Dichlorobenzene	4	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 20:45	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 20:45	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 20:45	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Acetophenone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 05:09	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Chrysene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014

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CERTIFICATE OF ANALYSIS

No: 10072721

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 05:09	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Fluorene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Isophorone	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/29/10	07/31/10 05:09	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/29/10	07/31/10 05:09	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/29/10	07/31/10 05:09	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Phenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
Pyrene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014

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CERTIFICATE OF ANALYSIS

No: 10072721
 EA Engineering, Sparks, MD
 August 12, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB08A-GW **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-009**
Matrix: GROUND WATER **Date/Time Received: 07/27/2010 16:35**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/29/10	07/31/10 05:09	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072721
EA Engineering, Sparks, MD
 August 12, 2010

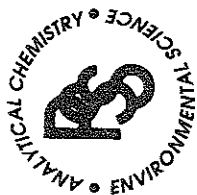
Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-13 **Date/Time Sampled: 07/27/2010 13:15** **PSS Sample ID: 10072721-010**
Matrix: WATER **Date/Time Received: 07/27/2010 16:35**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Toluene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
2-Hexanone	ND	ug/L	5		1	5	07/30/10	07/31/10 00:44	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Acrolein	ND	ug/L	20		1	10	07/30/10	07/31/10 00:44	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Bromoform	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:44	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:44	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/30/10	07/31/10 00:44	1014
Styrene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
o-Xylene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/30/10	07/31/10 00:44	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Naphthalene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/30/10	07/31/10 00:44	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/30/10	07/31/10 00:44	1014



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC. Sparks, MD PSS Work Order # 10072721 PAGE 1 OF 1

PROJECT MGR: Peter Lelas PHONE NO.: (410) 771-4950 Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe

EMAIL: plekas@east.com FAX NO.: (410) 771-4204

PROJECT NAME: Gude Landfill PROJECT NO.: 621963

SITE LOCATION: Rockville, MD P.O. NO.:

SAMPLERS: Joe Sawicki / Bryan Kateley

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINERS	SAMPLE TYPE	C = COMP	G = GRAB	Preservatives Used										REMARKS			
									VOC 8260	Metals 6020	Herbicide 8151	Chlorinated Hydrocarbons 8081	Organophosphorus Pesticides 8141	PCBs 8082	Surfactants 9010	Surfactants 9030	Other	Other		Other	Other	
1	Gude-OB102-GW	7/27/10	1035	GW	11	G			X	X	X	X	X	X	X	X	X	X	X	X	X	
2	TB-8	7/27/10	1035	GW	2	G			X	X	X	X	X	X	X	X	X	X	X	X	X	
3	Gude-MW2B-GW		1300		11				X	X	X	X	X	X	X	X	X	X	X	X	X	
4	TB-9		1300		2				X	X	X	X	X	X	X	X	X	X	X	X	X	
5	Gude-MW2A-GW		1405		11				X	X	X	X	X	X	X	X	X	X	X	X	X	
6	TB-10		1405		2				X	X	X	X	X	X	X	X	X	X	X	X	X	
7	Gude-0808-GW		1140		11				X	X	X	X	X	X	X	X	X	X	X	X	X	
8	TB-12		1140		2				X	X	X	X	X	X	X	X	X	X	X	X	X	
9	Gude-0B08A-GW		1315		11				X	X	X	X	X	X	X	X	X	X	X	X	X	
10	TB-13		1315		2				X	X	X	X	X	X	X	X	X	X	X	X	X	

5 Relinquished By: (1) [Signature] Date 7/27/10 Time 1635 Received By: [Signature] Time 1635 # of Coolers 5

Relinquished By: (2) _____ Date _____ Time _____ Received By: _____ Time _____ Custody Seal: ABS

Relinquished By: (3) _____ Date _____ Time _____ Received By: _____ Time _____ Ice Present: PRES Temp: 9°C

Relinquished By: (4) _____ Date _____ Time _____ Received By: _____ Time _____ Shipping Carrier: CLIENT

Data Deliverables Required: EOD

Requested Turnaround Time: 5-Day 3-Day 2-Day Next Day Emergency Other

Special Instructions: _____

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10072721 **Received By** Rachel Davis
Client Name EA Engineering **Date Received** 07/27/2010 04:35:00 PM
Project Name Gude Landfill **Delivered By** Client
Project Number 6219608 **Tracking No** Not Applicable
Disposal Date: 09/25/2010 **Logged In By** Rachel Davis

Shipping Container(s)

No. of Coolers	1	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	9
Seal Condition	Not Applicable	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No **Sampler Name:** Joseph Sawicki
Chain of Custody (COC) Yes or No **MD DW Cert. No.:** N/A

Sample Container

Appropriate for Specified Analysis? Yes No **Custody Seal(s)** Absent
Intact? **Custody Seal(s) Intact?** Not Applicable
Labeled and Labels Legible **Seal(s) Signed / Dated** Not Applicable
Total No. of Samples Received 10 **Total No. of Containers Received** 65

Preservation

		Yes	No	N/A
Metals	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides	(pH>12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfide	(pH>9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: [Signature]

Date: 7/28/10

PM Review and Approval: [Signature]

Date: 7/29/10

Analytical Data Package Information Summary for W.O 10072721

Report Prepared For: EA Engineering, Sparks, MD

Project Name: Gude Landfill

Project Manager: Pete Lekas



Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Batch	Sampled	Received	Prepared	Analyzed	
SW846 6020	33783-1-BKS	BKS	33783-1-BKS	1034	W	33783	84013		-----	07/27/2010	08/02/2010	08/02/2010	
	33783-1-BLK	BLK	33783-1-BLK	1034	W	33783	84013		-----	07/27/2010	08/02/2010	08/02/2010	
	Gude-MW2A-GW	Initial	10072721-005	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	Gude-MW2B-GW	Initial	10072721-003	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	Gude-OB08-GW	Initial	10072721-007	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	Gude-OB08A-GW	Initial	10072721-009	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	Gude-OB102-GW	Initial	10072721-001	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	Gude-OB102-GW S	MS	10072721-001 S	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	Gude-OB102-GW SD	MSD	10072721-001 SD	1034	W	33783	84013		07/27/2010	07/27/2010	08/02/2010	08/02/2010	
	33783-1-BKS	BKS	33783-1-BKS	1034	W	33783	84027		-----	07/27/2010	08/02/2010	08/03/2010	
	33783-1-BLK	BLK	33783-1-BLK	1034	W	33783	84027		-----	07/27/2010	08/02/2010	08/03/2010	
	Gude-MW2A-GW DL	Reanalysis	10072721-005	1034	W	33783	84027		07/27/2010	07/27/2010	08/02/2010	08/03/2010	
	Gude-MW2B-GW DL	Reanalysis	10072721-003	1034	W	33783	84027		07/27/2010	07/27/2010	08/02/2010	08/03/2010	
	Gude-OB08-GW DL	Reanalysis	10072721-007	1034	W	33783	84027		07/27/2010	07/27/2010	08/02/2010	08/03/2010	
Gude-OB08A-GW DL	Reanalysis	10072721-009	1034	W	33783	84027		07/27/2010	07/27/2010	08/02/2010	08/03/2010		
Gude-OB102-GW DL	Reanalysis	10072721-001	1034	W	33783	84027		07/27/2010	07/27/2010	08/02/2010	08/03/2010		
SW846 8081B	33762-1-BKS	BKS	33762-1-BKS	1029	W	33762	83986		-----	07/27/2010	07/29/2010	07/30/2010	
	33762-1-BLK	BLK	33762-1-BLK	1029	W	33762	83986		-----	07/27/2010	07/29/2010	07/30/2010	
	33762-1-BSD	BSD	33762-1-BSD	1029	W	33762	83986		-----	07/27/2010	07/29/2010	07/30/2010	
	Gude-MW2A-GW	Initial	10072721-005	1029	W	33762	83986		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-MW2B-GW	Initial	10072721-003	1029	W	33762	83986		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-OB08-GW	Initial	10072721-007	1029	W	33762	83986		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-OB08A-GW	Initial	10072721-009	1029	W	33762	83986		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-OB102-GW	Initial	10072721-001	1029	W	33762	83986		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	33763-1-BKS	BKS	33763-1-BKS	1029	W	33763	83971		-----	07/27/2010	07/29/2010	07/30/2010	
	33763-1-BLK	BLK	33763-1-BLK	1029	W	33763	83971		-----	07/27/2010	07/29/2010	07/30/2010	
	33763-1-BSD	BSD	33763-1-BSD	1029	W	33763	83971		-----	07/27/2010	07/29/2010	07/30/2010	
	Gude-MW2A-GW	Initial	10072721-005	1029	W	33763	83971		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	SW846 8082A	33763-1-BKS	BKS	33763-1-BKS	1029	W	33763	83971		-----	07/27/2010	07/29/2010	07/30/2010
		33763-1-BLK	BLK	33763-1-BLK	1029	W	33763	83971		-----	07/27/2010	07/29/2010	07/30/2010
33763-1-BSD		BSD	33763-1-BSD	1029	W	33763	83971		-----	07/27/2010	07/29/2010	07/30/2010	
Gude-MW2A-GW		Initial	10072721-005	1029	W	33763	83971		07/27/2010	07/27/2010	07/29/2010	07/30/2010	

Analytical Data Package Information Summary for W.O 10072721

Report Prepared For: EA Engineering, Sparks, MD

Project Name: Gude Landfill

Project Manager: Pete Lekas



Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Batch	Sampled	Received	Prepared	Analyzed	
SW846 8082A	Gude-MW2B-GW	Initial	10072721-003	1029	W	33763	83971		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-OB08-GW	Initial	10072721-007	1029	W	33763	83971		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-OB08A-GW	Initial	10072721-009	1029	W	33763	83971		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
	Gude-OB102-GW	Initial	10072721-001	1029	W	33763	83971		07/27/2010	07/27/2010	07/29/2010	07/30/2010	
SW846 8151A	33764-I-BKS	BKS	33764-I-BKS	1029	W	33764	84015		-----	07/27/2010	07/30/2010	08/02/2010	
	33764-I-BLK	BLK	33764-I-BLK	1029	W	33764	84015		-----	07/27/2010	07/30/2010	08/02/2010	
	33764-I-BSD	BSD	33764-I-BSD	1029	W	33764	84015		-----	07/27/2010	07/30/2010	08/02/2010	
	Gude-MW2A-GW	Initial	10072721-005	1029	W	33764	84015		07/27/2010	07/27/2010	07/30/2010	08/02/2010	
	Gude-MW2B-GW	Initial	10072721-003	1029	W	33764	84015		07/27/2010	07/27/2010	07/30/2010	08/02/2010	
	Gude-OB08-GW	Initial	10072721-007	1029	W	33764	84015		07/27/2010	07/27/2010	07/30/2010	08/02/2010	
	Gude-OB08A-GW	Initial	10072721-009	1029	W	33764	84015		07/27/2010	07/27/2010	07/30/2010	08/02/2010	
	Gude-OB102-GW	Initial	10072721-001	1029	W	33764	84015		07/27/2010	07/27/2010	07/30/2010	08/02/2010	
SW846 8260B	33795-I-BKS	BKS	33795-I-BKS	1014	W	33795	83993		-----	07/27/2010	07/30/2010	07/30/2010	
	33795-I-BLK	BLK	33795-I-BLK	1014	W	33795	83993		-----	07/27/2010	07/30/2010	07/30/2010	
	33795-I-BSD	BSD	33795-I-BSD	1014	W	33795	83993		-----	07/27/2010	07/30/2010	07/30/2010	
	TB-10	Initial	10072721-006	1014	W	33795	83993		07/27/2010	07/27/2010	07/30/2010	07/31/2010	
	TB-12	Initial	10072721-008	1014	W	33795	83993		07/27/2010	07/27/2010	07/30/2010	07/31/2010	
	TB-13	Initial	10072721-010	1014	W	33795	83993		07/27/2010	07/27/2010	07/30/2010	07/31/2010	
	TB-8	Initial	10072721-002	1014	W	33795	83993		07/27/2010	07/27/2010	07/30/2010	07/30/2010	
	TB-9	Initial	10072721-004	1014	W	33795	83993		07/27/2010	07/27/2010	07/30/2010	07/30/2010	
	33798-I-BKS	BKS	33798-I-BKS	1014	W	33798	84001		-----	07/27/2010	07/31/2010	07/31/2010	07/31/2010
	33798-I-BLK	BLK	33798-I-BLK	1014	W	33798	84001		-----	07/27/2010	07/31/2010	07/31/2010	07/31/2010
	33798-I-BSD	BSD	33798-I-BSD	1014	W	33798	84001		-----	07/27/2010	07/31/2010	07/31/2010	07/31/2010
	Gude-MW2A-GW	Initial	10072721-005	1014	W	33798	84001		07/27/2010	07/27/2010	07/31/2010	07/31/2010	
Gude-MW2B-GW	Initial	10072721-003	1014	W	33798	84001		07/27/2010	07/27/2010	07/31/2010	07/31/2010		
Gude-OB08-GW	Initial	10072721-007	1014	W	33798	84001		07/27/2010	07/27/2010	07/31/2010	07/31/2010		
Gude-OB08A-GW	Initial	10072721-009	1014	W	33798	84001		07/27/2010	07/27/2010	07/31/2010	07/31/2010		
Gude-OB102-GW	Initial	10072721-001	1014	W	33798	84001		07/27/2010	07/27/2010	07/31/2010	07/31/2010		

Analytical Data Package Information Summary for W.O 10072721

Report Prepared For: EA Engineering, Sparks, MD
 Project Name: Gude Landfill
 Project Manager: Pete Lekas



Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Batch	Sampled	Received	Prepared	Analyzed
SW846 8260B	Gude-OB12-GW S	MS	10072813-001 S	1014	W	33798	84001		07/28/2010	07/27/2010	07/31/2010	07/31/2010
	Gude-OB12-GW SD	MSD	10072813-001 SD	1014	W	33798	84001		07/28/2010	07/27/2010	07/31/2010	07/31/2010
SW846 8270C	33748-1-BKS	BKS	33748-1-BKS	1014	W	33748	83974		-----	07/27/2010	07/29/2010	07/30/2010
	33748-1-BLK	BLK	33748-1-BLK	1014	W	33748	83974		-----	07/27/2010	07/29/2010	07/30/2010
	33748-1-BSD	BSD	33748-1-BSD	1014	W	33748	83974		-----	07/27/2010	07/29/2010	07/30/2010
	Gude-MW2A-GW	Initial	10072721-005	1014	W	33748	83975		07/27/2010	07/27/2010	07/29/2010	07/31/2010
	Gude-MW2B-GW	Initial	10072721-003	1014	W	33748	83975		07/27/2010	07/27/2010	07/29/2010	07/31/2010
	Gude-OB08-GW	Initial	10072721-007	1014	W	33748	83975		07/27/2010	07/27/2010	07/29/2010	07/31/2010
	Gude-OB08A-GW	Initial	10072721-009	1014	W	33748	83975		07/27/2010	07/27/2010	07/29/2010	07/31/2010
Gude-OB102-GW	Initial	10072721-001	1014	W	33748	83975		07/27/2010	07/27/2010	07/29/2010	07/31/2010	
SW846 9014	83997-1-BKS	BKS	83997-1-BKS	1022	W	83997	83997		-----	07/27/2010	08/02/2010	08/02/2010
	83997-1-BLK	BLK	83997-1-BLK	1022	W	83997	83997		-----	07/27/2010	08/02/2010	08/02/2010
	83997-1-BSD	BSD	83997-1-BSD	1022	W	83997	83997		-----	07/27/2010	08/02/2010	08/02/2010
	Gude-MW2A-GW	Initial	10072721-005	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010
	Gude-MW2B-GW	Initial	10072721-003	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010
	Gude-OB08-GW	Initial	10072721-007	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010
	Gude-OB08A-GW	Initial	10072721-009	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010
	Gude-OB102-GW	Initial	10072721-001	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010
	Gude-OB102-GW S	MS	10072721-001 S	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010
	Gude-OB102-GW SD	MSD	10072721-001 SD	1022	W	83997	83997		07/27/2010	07/27/2010	08/02/2010	08/02/2010



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33748-1-BLK
Lab Sample Id: 33748-1-BLK

Matrix: WATER

Analytical Method: SW846 8270C

Prep Method: SW3510C

Date Analyzed: Jul-30-10 13:22

Analyst: 1014

Date Prep: Jul-29-10 11:49

Tech: 1022

Seq Number: 83974

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Acenaphthene	83-32-9	U	5.000	2.500	ug/l	U	1
Acenaphthylene	208-96-8	U	5.000	2.500	ug/l	U	1
Acetophenone	98-86-2	U	5.000	2.500	ug/l	U	1
Anthracene	120-12-7	U	5.000	2.500	ug/l	U	1
Benzo(a)anthracene	56-55-3	U	5.000	2.500	ug/l	U	1
Benzo(a)pyrene	50-32-8	U	5.000	2.500	ug/l	U	1
Benzo(b)fluoranthene	205-99-2	U	5.000	2.500	ug/l	U	1
Benzo(g,h,i)perylene	191-24-2	U	5.000	2.500	ug/l	U	1
Benzo(k)fluoranthene	207-08-9	U	5.000	2.500	ug/l	U	1
Butyl benzyl phthalate	85-68-7	U	5.000	2.500	ug/l	U	1
bis(2-chloroethoxy) methane	111-91-1	U	5.000	2.500	ug/l	U	1
bis(2-chloroethyl) ether	111-44-4	U	5.000	2.500	ug/l	U	1
bis(2-chloroisopropyl) ether	108-60-1	U	5.000	2.500	ug/l	U	1
bis(2-ethylhexyl) phthalate	117-81-7	U	5.000	2.500	ug/l	U	1
4-Bromophenylphenyl ether	101-55-3	U	5.000	2.500	ug/l	U	1
Di-n-butyl phthalate	84-74-2	U	5.000	2.500	ug/l	U	1
4-Chloro-3-methyl phenol	59-50-7	U	5.000	2.500	ug/l	U	1
4-Chloroaniline	106-47-8	U	10.00	5.000	ug/l	U	1
2-Chloronaphthalene	91-58-7	U	5.000	2.500	ug/l	U	1
2-Chlorophenol	95-57-8	U	5.000	2.500	ug/l	U	1
4-Chlorophenyl Phenyl ether	7005-72-3	U	5.000	2.500	ug/l	U	1
Chrysene	218-01-9	U	5.000	2.500	ug/l	U	1
Dibenz(a,h)Anthracene	53-70-3	U	5.000	2.500	ug/l	U	1
Dibenzofuran	132-64-9	U	5.000	2.500	ug/l	U	1
3,3-Dichlorobenzidine	91-94-1	U	5.000	2.500	ug/l	U	1
2,4-Dichlorophenol	120-83-2	U	5.000	2.500	ug/l	U	1
Diethyl phthalate	84-66-2	U	5.000	2.500	ug/l	U	1
Dimethyl phthalate	131-11-3	U	5.000	2.500	ug/l	U	1
2,4-Dimethylphenol	105-67-9	U	5.000	2.500	ug/l	U	1
4,6-Dinitro-2-methyl phenol	534-52-1	U	5.000	2.500	ug/l	U	1
2,4-Dinitrophenol	51-28-5	U	10.00	5.000	ug/l	U	1
2,4-Dinitrotoluene	121-14-2	U	5.000	2.500	ug/l	U	1
2,6-Dinitrotoluene	606-20-2	U	5.000	2.500	ug/l	U	1
Fluoranthene	206-44-0	U	5.000	2.500	ug/l	U	1
Fluorene	86-73-7	U	5.000	2.500	ug/l	U	1
Hexachlorobenzene	118-74-1	U	5.000	2.500	ug/l	U	1
Hexachlorobutadiene	87-68-3	U	5.000	2.500	ug/l	U	1
Hexachlorocyclopentadiene	77-47-4	U	5.000	2.500	ug/l	U	1
Hexachloroethane	67-72-1	U	5.000	2.500	ug/l	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	5.000	2.500	ug/l	U	1
Isophorone	78-59-1	U	5.000	2.500	ug/l	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33748-1-BLK
Lab Sample Id: 33748-1-BLK

Matrix: WATER

Analytical Method: SW846 8270C

Prep Method: SW3510C

Date Analyzed: Jul-30-10 13:22

Analyst: 1014

Date Prep: Jul-29-10 11:49

Tech: 1022

Seq Number: 83974

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
2-Methylnaphthalene	91-57-6	U	5.000	2.500	ug/L	U	1
2-Methyl phenol	95-48-7	U	5.000	2.500	ug/L	U	1
3&4-Methylphenol		U	5.000	2.500	ug/L	U	1
4-Nitroaniline	100-01-6	U	10.00	5.000	ug/L	U	1
3-Nitroaniline	99-09-2	U	5.000	2.500	ug/L	U	1
2-Nitroaniline	88-74-4	U	5.000	2.500	ug/L	U	1
Nitrobenzene	98-95-3	U	5.000	2.500	ug/L	U	1
2-Nitrophenol	88-75-5	U	5.000	2.500	ug/L	U	1
4-Nitrophenol	100-02-7	U	5.000	2.500	ug/L	U	1
N-Nitrosodimethylamine	62-75-9	U	5.000	2.500	ug/L	U	1
N-Nitrosodi-n-propyl amine	621-64-7	U	5.000	2.500	ug/L	U	1
N-Nitrosodiphenylamine	86-30-6	U	5.000	2.500	ug/L	U	1
Di-n-octyl phthalate	117-84-0	U	10.00	5.000	ug/L	U	1
Pentachlorophenol	87-86-5	U	10.00	5.000	ug/L	U	1
Phenanthrene	85-01-8	U	5.000	2.500	ug/L	U	1
Phenol	108-95-2	U	5.000	2.500	ug/L	U	1
Pyrene	129-00-0	U	5.000	2.500	ug/L	U	1
1,2,4,5-Tetrachlorobenzene	95-94-3	U	5.000	2.500	ug/L	U	1
2,3,4,6-Tetrachlorophenol	58-90-2	U	5.000	2.500	ug/L	U	1
2,4,6-Trichlorophenol	88-06-2	U	5.000	2.500	ug/L	U	1
2,4,5-Trichlorophenol	95-95-4	U	5.000	2.500	ug/L	U	1
TIC		U	5.000	2.500	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33762-1-BLK
Lab Sample Id: 33762-1-BLK

Matrix: WATER

Analytical Method: SW846 8081B

Prep Method: SW3510C

Date Analyzed: Jul-30-10 12:33

Analyst: 1029

Date Prep: Jul-29-10 19:44

Tech: 1016

Seq Number: 83986

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
alpha-BHC	319-84-6	ND	0.08	0.0400	ug/L	U	1
gamma-BHC (Lindane)	58-89-9	ND	0.08	0.0400	ug/L	U	1
beta-BHC	319-85-7	ND	0.08	0.0400	ug/L	U	1
delta-BHC	319-86-8	ND	0.08	0.0400	ug/L	U	1
Heptachlor	76-44-8	ND	0.08	0.0400	ug/L	U	1
Aldrin	309-00-2	ND	0.08	0.0400	ug/L	U	1
Heptachlor epoxide	1024-57-3	ND	0.08	0.0400	ug/L	U	1
gamma-Chlordane	5103-74-2	ND	0.08	0.0400	ug/L	U	1
alpha-Chlordane	5103-71-9	ND	0.08	0.0400	ug/L	U	1
4,4-DDE	72-55-9	ND	0.08	0.0400	ug/L	U	1
Endosulfan I	959-98-8	ND	0.08	0.0400	ug/L	U	1
Dieldrin	60-57-1	ND	0.08	0.0400	ug/L	U	1
Endrin	72-20-8	ND	0.08	0.0400	ug/L	U	1
4,4-DDD	72-54-8	ND	0.08	0.0400	ug/L	U	1
Endosulfan II	33213-65-9	ND	0.08	0.0400	ug/L	U	1
4,4-DDT	50-29-3	ND	0.08	0.0400	ug/L	U	1
Endrin aldehyde	7421-93-4	ND	0.08	0.0400	ug/L	U	1
Methoxychlor	72-43-5	ND	0.08	0.0400	ug/L	U	1
Endosulfan sulfate	1031-07-8	ND	0.08	0.0400	ug/L	U	1
Endrin ketone	53494-70-5	ND	0.08	0.0400	ug/L	U	1
Toxaphene	8001-35-2	ND	2	1.0	ug/L	U	1
Chlordane	57-74-9	ND	2	1.0	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD
Gude Landfill

Sample Id: 33763-1-BLK
Lab Sample Id: 33763-1-BLK

Matrix: WATER

Analytical Method: SW846 8082A

Prep Method: SW3510C

Date Analyzed: Jul-30-10 10:28

Analyst: 1029

Date Prep: Jul-29-10 19:48

Tech: 1016

Seq Number: 83971

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
PCB-1016	12674-11-2	ND	1.0	0.5000	ug/L	U	1
PCB-1221	11104-28-2	ND	1.0	0.5000	ug/L	U	1
PCB-1232	11141-16-5	ND	1.0	0.5000	ug/L	U	1
PCB-1242	53469-21-9	ND	1.0	0.5000	ug/L	U	1
PCB-1248	12672-29-6	ND	1.0	0.5000	ug/L	U	1
PCB-1254	11097-69-1	ND	1.0	0.5000	ug/L	U	1
PCB-1260	11096-82-5	ND	1.0	0.5000	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD
Gude Landfill

Sample Id: **33764-1-BLK** Matrix: **WATER**
Lab Sample Id: **33764-1-BLK**

Analytical Method: **SW846 8151A** Prep Method: **SW8151A_PREP**
Date Analyzed: **Aug-02-10 17:01** Analyst: **1029** Date Prep: **Jul-30-10 07:10** Tech: **1028**
Seq Number: **84015**

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
2,4-D	94-75-7	ND	2	1.0	ug/l	U	1
2,4,5-TP (Silvex)	93-72-1	ND	0.2	0.1000	ug/l	U	1
2,4,5-T	93-76-5	ND	0.2	0.1000	ug/l	U	1
Dinoseb	88-85-7	ND	1	0.5000	ug/l	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33783-1-BLK
Lab Sample Id: 33783-1-BLK

Matrix: WATER

Analytical Method: SW846 6020

Prep Method: SW3010A

Date Analyzed: Aug-02-10 18:02

Analyst: 1034

Date Prep: Aug-02-10 08:17

Tech: 1034

Seq Number: 84013

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Antimony	7440-36-0	ND	1.0	0.5	ug/L	U	1
Arsenic	7440-38-2	0.5000	1.0	0.5	ug/L		1
Barium	7440-39-3	ND	1.0	0.5	ug/L	U	1
Beryllium	7440-41-7	ND	1.0	0.5	ug/L	U	1
Cadmium	7440-43-9	ND	1.0	0.5	ug/L	U	1
Chromium	7440-47-3	ND	1.0	0.5	ug/L	U	1
Cobalt	7440-48-4	ND	1.0	0.5	ug/L	U	1
Copper	7440-50-8	0.7800	1.0	0.5	ug/L		1
Lead	7439-92-1	ND	1.0	0.5	ug/L	U	1
Mercury	7439-97-6	ND	0.20	0.10	ug/L	U	1
Nickel	7440-02-0	ND	1.0	0.5	ug/L	U	1
Selenium	7782-49-2	ND	1.0	0.5	ug/L	U	1
Silver	7440-22-4	ND	1.0	0.5	ug/L	U	1
Thallium	7440-28-0	ND	1.0	0.5	ug/L	U	1
Tin	7440-31-5	ND	5.0	2.5	ug/L	U	1
Vanadium	7440-62-2	ND	5.0	2.5	ug/L	U	1
Zinc	7440-66-6	ND	10	10	ug/L	U	1

Analytical Method: SW846 6020

Prep Method: SW3010A

Date Analyzed: Aug-03-10 12:54

Analyst: 1034

Date Prep: Aug-02-10 08:17

Tech: 1034

Seq Number: 84027

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Antimony	7440-36-0	ND	1.0	0.5	ug/L	U	1
Arsenic	7440-38-2	ND	1.0	0.5	ug/L	U	1
Barium	7440-39-3	ND	1.0	0.5	ug/L	U	1
Beryllium	7440-41-7	ND	1.0	0.5	ug/L	U	1
Cadmium	7440-43-9	ND	1.0	0.5	ug/L	U	1
Chromium	7440-47-3	ND	1.0	0.5	ug/L	U	1
Cobalt	7440-48-4	ND	1.0	0.5	ug/L	U	1
Copper	7440-50-8	ND	1.0	0.5	ug/L	U	1
Lead	7439-92-1	ND	1.0	0.5	ug/L	U	1
Mercury	7439-97-6	ND	0.20	0.10	ug/L	U	1
Nickel	7440-02-0	ND	1.0	0.5	ug/L	U	1
Selenium	7782-49-2	ND	1.0	0.5	ug/L	U	1
Silver	7440-22-4	ND	1.0	0.5	ug/L	U	1
Thallium	7440-28-0	ND	1.0	0.5	ug/L	U	1
Tin	7440-31-5	ND	5.0	2.5	ug/L	U	1
Vanadium	7440-62-2	ND	5.0	2.5	ug/L	U	1
Zinc	7440-66-6	ND	10	10	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33795-1-BLK
Lab Sample Id: 33795-1-BLK

Matrix: WATER

Analytical Method: SW846 8260B

Prep Method: SW5030B

Date Analyzed: Jul-30-10 22:42

Analyst: 1014

Date Prep: Jul-30-10 00:00

Tech: 1014

Seq Number: 83993

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Dichlorodifluoromethane	75-71-8	ND	1	0.5	ug/L	U	1
Chloromethane	74-87-3	ND	1	0.5	ug/L	U	1
Vinyl Chloride	75-01-4	ND	1	0.5	ug/L	U	1
Bromomethane	74-83-9	ND	1	0.5	ug/L	U	1
Chloroethane	75-00-3	ND	1	0.5	ug/L	U	1
Acetone	67-64-1	ND	5	5.0	ug/L	U	1
Trichlorofluoromethane	75-69-4	ND	1	1.0	ug/L	U	1
1,1-Dichloroethene	75-35-4	ND	1	0.5	ug/L	U	1
Methylene Chloride	75-09-2	ND	1	0.5	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	ND	1	0.5	ug/L	U	1
1,1-Dichloroethane	75-34-3	ND	1	0.5	ug/L	U	1
Vinyl Acetate	108-05-4	ND	1	0.5	ug/L	U	1
2-Butanone	78-93-3	ND	10	5.0	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	ND	1	0.5	ug/L	U	1
Bromochloromethane	74-97-5	ND	1	0.5	ug/L	U	1
Chloroform	67-66-3	ND	1	0.5	ug/L	U	1
2,2-Dichloropropane	594-20-7	ND	1	0.5	ug/L	U	1
1,1,1-Trichloroethane	71-55-6	ND	1	0.5	ug/L	U	1
1,2-Dichloroethane	107-06-2	ND	1	0.5	ug/L	U	1
1,1-Dichloropropene	563-58-6	ND	1	0.5	ug/L	U	1
Carbon Tetrachloride	56-23-5	ND	1	0.5	ug/L	U	1
Benzene	71-43-2	ND	1	0.5	ug/L	U	1
Dibromomethane	74-95-3	ND	1	0.5	ug/L	U	1
1,2-Dichloropropane	78-87-5	ND	1	0.5	ug/L	U	1
Acrylonitrile	107-13-1	ND	10	5.0	ug/L	U	1
Trichloroethene	79-01-6	ND	1	0.5	ug/L	U	1
Carbon Disulfide	75-15-0	ND	1	1.0	ug/L	U	1
Bromodichloromethane	75-27-4	ND	1	0.5	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	ND	1	0.5	ug/L	U	1
4-Methyl-2-Pentanone	108-10-1	ND	5	2.5	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	ND	1	0.5	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	ND	1	0.5	ug/L	U	1
Toluene	108-88-3	ND	1	0.5	ug/L	U	1
1,3-Dichloropropane	142-28-9	ND	1	0.5	ug/L	U	1
2-Hexanone	591-78-6	ND	5	5.0	ug/L	U	1
1,2-Dibromoethane	106-93-4	ND	1	0.5	ug/L	U	1
Dibromochloromethane	124-48-1	ND	1	0.5	ug/L	U	1
Acrolein	107-02-8	ND	20	10	ug/L	U	1
1,1,1,2-Tetrachloroethane	630-20-6	ND	1	0.5	ug/L	U	1
Bromoform	75-25-2	ND	5	2.5	ug/L	U	1
trans-1,4-Dichloro-2-butene	110-57-6	ND	5	2.5	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33795-1-BLK
Lab Sample Id: 33795-1-BLK

Matrix: WATER

Analytical Method: SW846 8260B

Prep Method: SW5030B

Date Analyzed: Jul-30-10 22:42

Analyst: 1014

Date Prep: Jul-30-10 00:00

Tech: 1014

Seq Number: 83993

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Tetrachloroethene	127-18-4	ND	1	0.5	ug/l	U	1
Chlorobenzene	108-90-7	ND	1	0.5	ug/l	U	1
Ethylbenzene	100-41-4	ND	1	0.5	ug/l	U	1
m,p-Xylenes	108-38-3	ND	2	1.0	ug/l	U	1
Styrene	100-42-5	ND	1	0.5	ug/l	U	1
1,1,2,2-Tetrachloroethane	79-34-5	ND	1	0.5	ug/l	U	1
o-Xylene	95-47-6	ND	1	0.5	ug/l	U	1
1,2,3-Trichloropropane	96-18-4	ND	1	0.5	ug/l	U	1
1,3-Dichlorobenzene	541-73-1	ND	1	0.5	ug/l	U	1
1,4-Dichlorobenzene	106-46-7	ND	1	0.5	ug/l	U	1
1,2-Dichlorobenzene	95-50-1	ND	1	0.5	ug/l	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	ND	10	5.0	ug/l	U	1
1,2,4-Trichlorobenzene	120-82-1	ND	1	0.5	ug/l	U	1
Naphthalene	91-20-3	ND	1	0.5	ug/l	U	1
1,2,3-Trichlorobenzene	87-61-6	ND	1	0.5	ug/l	U	1
Iodomethane (Methyl Iodide)	74-88-4	ND	20	10	ug/l	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33798-1-BLK
Lab Sample Id: 33798-1-BLK

Matrix: WATER

Analytical Method: SW846 8260B

Prep Method: SW5030B

Date Analyzed: Jul-31-10 14:03

Analyst: 1014

Date Prep: Jul-31-10 00:00

Tech: 1014

Seq Number: 84001

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Dichlorodifluoromethane	75-71-8	ND	1	0.5	ug/L	U	1
Chloromethane	74-87-3	ND	1	0.5	ug/L	U	1
Vinyl Chloride	75-01-4	ND	1	0.5	ug/L	U	1
Bromomethane	74-83-9	ND	1	0.5	ug/L	U	1
Chloroethane	75-00-3	ND	1	0.5	ug/L	U	1
Acetone	67-64-1	ND	5	5.0	ug/L	U	1
Trichlorofluoromethane	75-69-4	ND	1	1.0	ug/L	U	1
1,1-Dichloroethene	75-35-4	ND	1	0.5	ug/L	U	1
Methylene Chloride	75-09-2	ND	1	0.5	ug/L	U	1
trans-1,2-Dichloroethene	156-60-5	ND	1	0.5	ug/L	U	1
1,1-Dichloroethane	75-34-3	ND	1	0.5	ug/L	U	1
Vinyl Acetate	108-05-4	ND	1	0.5	ug/L	U	1
2-Butanone	78-93-3	ND	10	5.0	ug/L	U	1
cis-1,2-Dichloroethene	156-59-2	ND	1	0.5	ug/L	U	1
Bromochloromethane	74-97-5	ND	1	0.5	ug/L	U	1
Chloroform	67-66-3	ND	1	0.5	ug/L	U	1
2,2-Dichloropropane	594-20-7	ND	1	0.5	ug/L	U	1
1,1,1-Trichloroethane	71-55-6	ND	1	0.5	ug/L	U	1
1,2-Dichloroethane	107-06-2	ND	1	0.5	ug/L	U	1
1,1-Dichloropropene	563-58-6	ND	1	0.5	ug/L	U	1
Carbon Tetrachloride	56-23-5	ND	1	0.5	ug/L	U	1
Benzene	71-43-2	ND	1	0.5	ug/L	U	1
Dibromomethane	74-95-3	ND	1	0.5	ug/L	U	1
1,2-Dichloropropane	78-87-5	ND	1	0.5	ug/L	U	1
Acrylonitrile	107-13-1	ND	10	5.0	ug/L	U	1
Trichloroethene	79-01-6	ND	1	0.5	ug/L	U	1
Carbon Disulfide	75-15-0	ND	1	1.0	ug/L	U	1
Bromodichloromethane	75-27-4	ND	1	0.5	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	ND	1	0.5	ug/L	U	1
4-Methyl-2-Pentanone	108-10-1	ND	5	2.5	ug/L	U	1
trans-1,3-Dichloropropene	10061-02-6	ND	1	0.5	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	ND	1	0.5	ug/L	U	1
Toluene	108-88-3	ND	1	0.5	ug/L	U	1
1,3-Dichloropropane	142-28-9	ND	1	0.5	ug/L	U	1
2-Hexanone	591-78-6	ND	5	5.0	ug/L	U	1
1,2-Dibromoethane	106-93-4	ND	1	0.5	ug/L	U	1
Dibromochloromethane	124-48-1	ND	1	0.5	ug/L	U	1
Acrolein	107-02-8	ND	20	10	ug/L	U	1
1,1,1,2-Tetrachloroethane	630-20-6	ND	1	0.5	ug/L	U	1
Bromoform	75-25-2	ND	5	2.5	ug/L	U	1
trans-1,4-Dichloro-2-butene	110-57-6	ND	5	2.5	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD

Gude Landfill

Sample Id: 33798-1-BLK
Lab Sample Id: 33798-1-BLK

Matrix: WATER

Analytical Method: SW846 8260B

Prep Method: SW5030B

Date Analyzed: Jul-31-10 14:03

Analyst: 1014

Date Prep: Jul-31-10 00:00

Tech: 1014

Seq Number: 84001

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Tetrachloroethene	127-18-4	ND	1	0.5	ug/L	U	1
Chlorobenzene	108-90-7	ND	1	0.5	ug/L	U	1
Ethylbenzene	100-41-4	ND	1	0.5	ug/L	U	1
m,p-Xylenes	108-38-3	ND	2	1.0	ug/L	U	1
Styrene	100-42-5	ND	1	0.5	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	ND	1	0.5	ug/L	U	1
o-Xylene	95-47-6	ND	1	0.5	ug/L	U	1
1,2,3-Trichloropropane	96-18-4	ND	1	0.5	ug/L	U	1
1,3-Dichlorobenzene	541-73-1	ND	1	0.5	ug/L	U	1
1,4-Dichlorobenzene	106-46-7	ND	1	0.5	ug/L	U	1
1,2-Dichlorobenzene	95-50-1	ND	1	0.5	ug/L	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	ND	10	5.0	ug/L	U	1
1,2,4-Trichlorobenzene	120-82-1	ND	1	0.5	ug/L	U	1
Naphthalene	91-20-3	ND	1	0.5	ug/L	U	1
1,2,3-Trichlorobenzene	87-61-6	ND	1	0.5	ug/L	U	1
Iodomethane (Methyl Iodide)	74-88-4	ND	20	10	ug/L	U	1



Blank Summary 10072721

EA Engineering, Sparks, MD
Gude Landfill

Sample Id: 83997-1-BLK
Lab Sample Id: 83997-1-BLK

Matrix: WATER

Analytical Method: SW846 9014

Prep Method:

Date Analyzed: Aug-02-10 15:45

Analyst: 1022

Date Prep:

Tech: 1022

Seq Number: 83997

Parameter	Cas Number	Result	RL	LOD	Units	Flag	Dil
Cyanide, Total	57-12-5	ND	0.05	0.0250	mg/L	U	1



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83971

Sample: 10072721-001 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	22.1	25.00	88	38-157	
Tetrachloro-m-xylene	15.9	25.00	64	22-115	

Lab Batch #: 83971

Sample: 10072721-003 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	26.1	25.00	104	38-157	
Tetrachloro-m-xylene	21.3	25.00	85	22-115	

Lab Batch #: 83971

Sample: 10072721-005 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	29.4	25.00	118	38-157	
Tetrachloro-m-xylene	24.8	25.00	99	22-115	

Lab Batch #: 83971

Sample: 10072721-007 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	27.1	25.00	108	38-157	
Tetrachloro-m-xylene	22.7	25.00	91	22-115	

Lab Batch #: 83971

Sample: 10072721-009 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
Decachlorobiphenyl	23.6	25.00	95	38-157	
Tetrachloro-m-xylene	19.5	25.00	78	22-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Baltimore, MD 21228



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83971

Sample: 33763-1-BKS / BKS

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	29.4	25.00	118	38-157	
Tetrachloro-m-xylene	24.1	25.00	96	22-115	

Lab Batch #: 83971

Sample: 33763-1-BLK / BLK

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	24.8	25.00	99	38-157	
Tetrachloro-m-xylene	20.2	25.00	81	22-115	

Lab Batch #: 83971

Sample: 33763-1-BSD / BSD

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Polychlorinated Biphenyls Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	24.6	25.00	98	38-157	
Tetrachloro-m-xylene	19.9	25.00	80	22-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83986

Sample: 10072721-001 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	4.6	5.00	92	63-145	
Tetrachloro-m-xylene	3.7	5.00	74	34-110	

Lab Batch #: 83986

Sample: 10072721-003 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	25.7	25.00	103	63-145	
Tetrachloro-m-xylene	23.8	25.00	95	34-110	

Lab Batch #: 83986

Sample: 10072721-005 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	29.6	25.00	118	63-145	
Tetrachloro-m-xylene	27.7	25.00	111	34-110	**

Lab Batch #: 83986

Sample: 10072721-007 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	25.5	25.00	102	63-145	
Tetrachloro-m-xylene	23.9	25.00	95	34-110	

Lab Batch #: 83986

Sample: 10072721-009 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	20.0	25.00	80	63-145	
Tetrachloro-m-xylene	18.6	25.00	74	34-110	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83986

Sample: 33762-1-BKS / BKS

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	24.6	25.00	99	63-145	
Tetrachloro-m-xylene	25.0	25.00	100	34-110	

Lab Batch #: 83986

Sample: 33762-1-BLK / BLK

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	26.4	25.00	106	63-145	
Tetrachloro-m-xylene	26.0	25.00	104	34-110	

Lab Batch #: 83986

Sample: 33762-1-BSD / BSD

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Organochlorine Pesticides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Decachlorobiphenyl	26.2	25.00	105	63-145	
Tetrachloro-m-xylene	25.7	25.00	103	34-110	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Baltimore, MD 21228



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 84015

Sample: 10072721-001 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	44.6	50.00	89	30-150	

Lab Batch #: 84015

Sample: 10072721-003 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	50.1	50.00	100	30-150	

Lab Batch #: 84015

Sample: 10072721-005 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	47.3	50.00	95	30-150	

Lab Batch #: 84015

Sample: 10072721-007 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	40.7	50.00	81	30-150	

Lab Batch #: 84015

Sample: 10072721-009 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Analytes					
2,4-Dichlorophenylacetic Acid	52.0	50.00	104	30-150	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 84015

Sample: 33764-1-BKS / BKS

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	45.1	50.00	90	30-150	

Lab Batch #: 84015

Sample: 33764-1-BLK / BLK

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	43.3	50.00	87	30-150	

Lab Batch #: 84015

Sample: 33764-1-BSD / BSD

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Chlorinated Herbicides Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2,4-Dichlorophenylacetic Acid	46.1	50.00	92	30-150	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = $100 * A / B$

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83974

Sample: 33748-1-BKS / BKS

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatle Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	98.5	100	98	45-117	
2-Fluorophenol	199	200	100	29-111	
Nitrobenzene-d5	103	100	103	33-114	
Phenol-d6	206	200	103	31-109	
Terphenyl-D14	108	100	108	35-147	
2,4,6-Tribromophenol	220	200	110	42-114	

Lab Batch #: 83974

Sample: 33748-1-BLK / BLK

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatle Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	108	100	108	45-117	
2-Fluorophenol	206	200	103	29-111	
Nitrobenzene-d5	101	100	101	33-114	
Phenol-d6	203	200	102	31-109	
Terphenyl-D14	112	100	112	35-147	
2,4,6-Tribromophenol	222	200	111	42-114	

Lab Batch #: 83974

Sample: 33748-1-BSD / BSD

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatle Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	97.1	100	97	45-117	
2-Fluorophenol	203	200	102	29-111	
Nitrobenzene-d5	104	100	104	33-114	
Phenol-d6	200	200	100	31-109	
Terphenyl-D14	109	100	109	35-147	
2,4,6-Tribromophenol	219	200	109	42-114	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83975

Sample: 10072721-001 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	97.2	100	97	45-117	
2-Fluorophenol	186	200	93	29-111	
Nitrobenzene-d5	89.7	100	90	33-114	
Phenol-d6	182	200	91	31-109	
Terphenyl-D14	98.9	100	99	35-147	
2,4,6-Tribromophenol	202	200	101	42-114	

Lab Batch #: 83975

Sample: 10072721-003 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	102	100	101	45-117	
2-Fluorophenol	185	200	93	29-111	
Nitrobenzene-d5	92.8	100	93	33-114	
Phenol-d6	190	200	95	31-109	
Terphenyl-D14	99.3	100	99	35-147	
2,4,6-Tribromophenol	200	200	100	42-114	

Lab Batch #: 83975

Sample: 10072721-005 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	91.1	100	91	45-117	
2-Fluorophenol	181	200	90	29-111	
Nitrobenzene-d5	88.9	100	89	33-114	
Phenol-d6	182	200	91	31-109	
Terphenyl-D14	101	100	101	35-147	
2,4,6-Tribromophenol	203	200	101	42-114	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83975

Sample: 10072721-007 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	84.1	100	84	45-117	
2-Fluorophenol	159	200	79	29-111	
Nitrobenzene-d5	72.4	100	72	33-114	
Phenol-d6	161	200	80	31-109	
Terphenyl-D14	89.2	100	89	35-147	
2,4,6-Tribromophenol	182	200	91	42-114	

Lab Batch #: 83975

Sample: 10072721-009 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Semivolatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
2-Fluorobiphenyl	90.9	100	91	45-117	
2-Fluorophenol	166	200	83	29-111	
Nitrobenzene-d5	79.9	100	80	33-114	
Phenol-d6	166	200	83	31-109	
Terphenyl-D14	94.9	100	95	35-147	
2,4,6-Tribromophenol	175	200	87	42-114	

Lab Batch #: 83993

Sample: 10072721-002 / SMP

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.1	50.00	100	93-109	
Toluene-D8	50.0	50.00	100	94-106	
4-Bromofluorobenzene	48.9	50.00	98	89-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83993

Sample: 10072721-004 / SMP

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.7	50.00	99	93-109	
Toluene-D8	50.4	50.00	101	94-106	
4-Bromofluorobenzene	48.6	50.00	97	89-115	

Lab Batch #: 83993

Sample: 10072721-006 / SMP

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.1	50.00	100	93-109	
Toluene-D8	50.4	50.00	101	94-106	
4-Bromofluorobenzene	48.7	50.00	97	89-115	

Lab Batch #: 83993

Sample: 10072721-008 / SMP

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.8	50.00	100	93-109	
Toluene-D8	49.5	50.00	99	94-106	
4-Bromofluorobenzene	48.6	50.00	97	89-115	

Lab Batch #: 83993

Sample: 10072721-010 / SMP

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.0	50.00	98	93-109	
Toluene-D8	48.9	50.00	98	94-106	
4-Bromofluorobenzene	48.5	50.00	97	89-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = $100 * A / B$

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Baltimore, MD 21228



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 83993

Sample: 33795-1-BKS / BKS

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.8	50.00	102	93-109	
Toluene-D8	50.0	50.00	100	94-106	
4-Bromofluorobenzene	50.2	50.00	100	89-115	

Lab Batch #: 83993

Sample: 33795-1-BLK / BLK

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.8	50.00	100	93-109	
Toluene-D8	50.1	50.00	100	94-106	
4-Bromofluorobenzene	48.4	50.00	97	89-115	

Lab Batch #: 83993

Sample: 33795-1-BSD / BSD

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	51.0	50.00	102	93-109	
Toluene-D8	50.4	50.00	101	94-106	
4-Bromofluorobenzene	49.9	50.00	100	89-115	

Lab Batch #: 84001

Sample: 10072721-001 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.8	50.00	100	93-109	
Toluene-D8	50.0	50.00	100	94-106	
4-Bromofluorobenzene	48.7	50.00	97	89-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

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Baltimore, MD 21228



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 84001

Sample: 10072721-003 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	50.0	50.00	100	93-109	
Toluene-D8	50.1	50.00	100	94-106	
4-Bromofluorobenzene	49.1	50.00	98	89-115	

Lab Batch #: 84001

Sample: 10072721-005 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.5	50.00	99	93-109	
Toluene-D8	49.6	50.00	99	94-106	
4-Bromofluorobenzene	48.8	50.00	98	89-115	

Lab Batch #: 84001

Sample: 10072721-007 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.2	50.00	98	93-109	
Toluene-D8	49.3	50.00	99	94-106	
4-Bromofluorobenzene	48.9	50.00	98	89-115	

Lab Batch #: 84001

Sample: 10072721-009 / SMP

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.8	50.00	100	93-109	
Toluene-D8	50.3	50.00	101	94-106	
4-Bromofluorobenzene	48.7	50.00	97	89-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = $100 * A / B$

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 84001

Sample: 10072813-001 S / MS

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	51.4	50.00	103	93-109	
Toluene-D8	49.6	50.00	99	94-106	
4-Bromofluorobenzene	49.1	50.00	98	89-115	

Lab Batch #: 84001

Sample: 10072813-001 SD / MSD

Matrix: Ground Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	51.6	50.00	103	93-109	
Toluene-D8	50.0	50.00	100	94-106	
4-Bromofluorobenzene	49.8	50.00	100	89-115	

Lab Batch #: 84001

Sample: 33798-1-BKS / BKS

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.5	50.00	99	93-109	
Toluene-D8	49.5	50.00	99	94-106	
4-Bromofluorobenzene	49.8	50.00	100	89-115	

Lab Batch #: 84001

Sample: 33798-1-BLK / BLK

Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	47.7	50.00	95	93-109	
Toluene-D8	49.2	50.00	98	94-106	
4-Bromofluorobenzene	49.0	50.00	98	89-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = 100 * A / B

Phase Separation Science, Inc
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Baltimore, MD 21228



Form 2 - Surrogate Recoveries

Project Name: Gude Landfill

08/27/2010

Work Order #: 10072721

Project ID: 6219608

Lab Batch #: 84001

Sample: 33798-1-BSD / BSD

Matrix: Water

Units: ug/L

Volatile Organic Compounds	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [C]	Control Limits %R	Flags
Dibromofluoromethane	49.4	50.00	99	93-109	
Toluene-D8	49.3	50.00	99	94-106	
4-Bromofluorobenzene	49.5	50.00	99	89-115	

* Surrogate outside of Laboratory QC limits

Surrogate Recovery [C] = $100 * A / B$

Phase Separation Science, Inc.
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Baltimore, MD 21228



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 84015

Units: ug/L

Date Prepared: 07/30/2010

Date Analyzed: 08/02/2010

Sample: 33764-1-BKS

Method: SW8151A_PREP / SW8151

Project ID: 6219608

Analyst: 1029

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Chlorinated Herbicides	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
2,4-D	<1.000	10.00	7.944	79	10.00	7.549	75	5	49-130	20	
2,4,5-TP (Silvex)	<0.1000	1.000	0.7740	77	1.000	0.7350	74	4	48-133	20	
2,4,5-T	<0.1000	1.000	0.9230	92	1.000	0.8600	86	7	40-142	20	
Dinoseb	<0.5000	5.000	3.723	74	5.000	3.496	70	6	75-110	20	L

Sample: 83997-1-BKS

Method: / SW9014

Analyst: 1022

Matrix: Water

Date Prepared: 08/02/2010

Date Analyzed: 08/02/2010

Prep Batch #: 1

Lab Batch ID: 83997

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Cyanide	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Cyanide, Total	<0.0250	0.1000	0.0982	98	0.1000	0.0916	92	6	80-120	20	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$

Laboratory Control Sample (LCS) Percent Recovery [D] = $100 * (C) / (B)$

Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = $100 * (F) / (E)$

H = Recovery of BS, BSD or both exceeded the laboratory control limits

F = RPD exceeded the laboratory control limits

L = Recovery of BS, BSD or both below the laboratory control limits

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Baltimore, MD 21228



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1
Lab Batch ID: 83986

Date Prepared: 07/29/2010
Date Analyzed: 07/30/2010

Units: ug/L

Project ID: 6219608
Analyst: 1029
Matrix: Water

Sample: 33762-1-BKS
Method: SW3510C / SW8081B

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
alpha-BHC	<0.0400	0.2000	0.2056	103	0.2000	0.2212	111	7	68-140	20	
gamma-BHC (Lindane)	<0.0400	0.2000	0.2043	102	0.2000	0.2192	110	8	72-140	20	
beta-BHC	<0.0400	0.2000	0.1932	97	0.2000	0.2061	103	6	55-154	20	
delta-BHC	<0.0400	0.2000	0.2256	113	0.2000	0.2412	121	7	53-169	20	
Heptachlor	<0.0400	0.2000	0.2008	100	0.2000	0.2131	107	7	68-129	20	
Aldrin	<0.0400	0.2000	0.2033	102	0.2000	0.2179	109	7	76-127	20	
Heptachlor epoxide	<0.0400	0.2000	0.1966	98	0.2000	0.2083	104	6	60-149	20	
gamma-Chlordane	<0.0400	0.2000	0.2081	104	0.2000	0.2222	111	7	66-164	20	
alpha-Chlordane	<0.0400	0.2000	0.2118	106	0.2000	0.2264	113	6	57-156	20	
4,4-DDE	<0.0400	0.2000	0.1945	97	0.2000	0.2077	104	7	60-164	20	
Endosulfan I	<0.0400	0.2000	0.2157	108	0.2000	0.2307	115	6	62-153	20	
Dieldrin	<0.0400	0.2000	0.2176	109	0.2000	0.2326	116	6	54-169	20	
Endrin	<0.0400	0.2000	0.2080	104	0.2000	0.2159	108	4	48-179	20	
4,4-DDD	<0.0400	0.2000	0.2080	104	0.2000	0.2246	112	7	73-152	20	
Endosulfan II	<0.0400	0.2000	0.2086	104	0.2000	0.2230	112	7	47-177	20	
4,4-DDT	<0.0400	0.2000	0.2169	108	0.2000	0.2269	113	5	39-180	20	
Endrin aldehyde	<0.0400	0.2000	0.2256	113	0.2000	0.2436	122	8	67-170	20	
Methoxychlor	<0.0400	0.2000	0.1871	94	0.2000	0.1954	98	4	48-155	20	
Endosulfan sulfate	<0.0400	0.2000	0.2194	110	0.2000	0.2349	117	6	50-181	20	
Endrin ketone	<0.0400	0.2000	0.2171	109	0.2000	0.2364	118	8	50-189	20	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$
 Laboratory Control Sample (LCS) Percent Recovery [D] = $100 * (C) / [B]$
 Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = $100 * (F) / [E]$

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Baltimore, MD 21228

H = Recovery of BS, BSD or both exceeded the laboratory control limits
 F = RPD exceeded the laboratory control limits
 L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Date Prepared: 07/29/2010

Lab Batch ID: 83971

Date Analyzed: 07/30/2010

Project ID: 6219608

Analyst: 1029

Matrix: Water

Sample: 33763-1-BKS

Method: SW3510C / SW8082

Units: ug/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
PCB-1016	<0.5000	5.000	4.791	96	5.000	4.479	90	6	49-127	20	
PCB-1260	<0.5000	5.000	5.069	101	5.000	4.728	95	6	48-148	20	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$
 Laboratory Control Sample (LCS) Percent Recovery [D] = $100 * (C) / [B]$
 Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = $100 * (F) / [E]$

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 Baltimore, MD 21228

H = Recovery of BS, BSD or both exceeded the laboratory control limits
 F = RPD exceeded the laboratory control limits
 L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Project ID: 6219608

Prep Batch #: 1

Sample: 33748-1-BKS

Analyst: 1014

Date Prepared: 07/29/2010

Matrix: Water

Lab Batch ID: 83974

Method: SW3510C / SW8270C

Date Analyzed: 07/30/2010

Units: ug/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Semivolatile Organic Compounds	BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										Flag
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	
Acenaphthene	<2.500	40.00	40.13	100	40.00	40.76	102	2	74-125	20	
Acenaphthylene	<2.500	40.00	40.50	101	40.00	41.94	105	4	76-128	20	
Acetophenone	<2.500	40.00	38.42	96	40.00	40.68	102	6	77-123	20	
Anthracene	<2.500	40.00	40.97	102	40.00	41.91	105	3	75-122	20	
Benzo(a)anthracene	<2.500	40.00	41.59	104	40.00	40.32	101	3	78-130	20	
Benzo(a)pyrene	<2.500	40.00	43.82	110	40.00	45.97	115	4	80-132	20	
Benzo(b)fluoranthene	<2.500	40.00	44.55	111	40.00	41.32	103	7	77-136	20	
Benzo(g,h,i)perylene	<2.500	40.00	45.27	113	40.00	45.29	113	0	60-142	20	
Benzo(k)fluoranthene	<2.500	40.00	39.97	100	40.00	44.97	112	11	76-133	20	
Butyl benzyl phthalate	<2.500	40.00	43.43	109	40.00	43.96	110	1	68-147	20	
bis(2-chloroethoxy) methane	<2.500	40.00	43.86	110	40.00	46.00	115	4	78-123	20	
bis(2-chloroethyl) ether	<2.500	40.00	41.59	104	40.00	44.21	111	7	76-127	20	
bis(2-chloroisopropyl) ether	<2.500	40.00	41.58	104	40.00	42.63	107	3	68-129	20	
bis(2-ethylhexyl) phthalate	<2.500	40.00	48.86	122	40.00	50.61	127	4	61-149	20	
4-Bromophenylphenyl ether	<2.500	40.00	44.42	111	40.00	47.63	119	7	74-127	20	
Di-n-butyl phthalate	<2.500	40.00	46.49	116	40.00	46.92	117	1	69-123	20	
4-Chloro-3-methyl phenol	<2.500	40.00	44.30	111	40.00	43.92	110	1	72-135	20	
4-Chloroaniline	<5.000	40.00	35.25	88	40.00	36.93	92	4	71-124	20	
2-Chloronaphthalene	<2.500	40.00	39.49	99	40.00	42.38	106	7	73-128	20	
2-Chlorophenol	<2.500	40.00	41.29	103	40.00	41.88	105	2	79-124	20	

Relative Percent Difference RPD = $200 * (D-F) / (D+F)$
 Laboratory Control Sample (LCS) Percent Recovery [D] = $100 * (C) / [B]$
 Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = $100 * (F) / [E]$

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 Baltimore, MD 21228

H = Recovery of BS, BSD or both exceeded the laboratory control limits
 F = RPD exceeded the laboratory control limits
 L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 83974

Units: ug/L

Date Prepared: 07/29/2010

Date Analyzed: 07/30/2010

Sample: 33748-1-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
4-Chlorophenyl Phenyl ether	<2.500	40.00	44.11	110	40.00	44.25	111	1	71-128	20	
Chrysene	<2.500	40.00	40.34	101	40.00	41.22	103	2	74-132	20	
Dibenz(a,h)Anthracene	<2.500	40.00	37.40	94	40.00	38.91	97	3	66-134	20	
Dibenzofuran	<2.500	40.00	43.82	110	40.00	47.08	118	7	75-129	20	
3,3-Dichlorobenzidine	<2.500	40.00	34.09	85	40.00	35.37	88	3	59-139	20	
2,4-Dichlorophenol	<2.500	40.00	42.63	107	40.00	41.27	103	4	76-132	20	
Diethyl phthalate	<2.500	40.00	46.88	117	40.00	47.07	118	1	70-126	20	
Dimethyl phthalate	<2.500	40.00	44.91	112	40.00	47.21	118	5	71-125	20	
2,4-Dimethylphenol	<2.500	40.00	41.81	105	40.00	41.95	105	0	75-129	20	
4,6-Dinitro-2-methyl phenol	<2.500	40.00	34.83	87	40.00	37.35	93	7	16-157	20	
2,4-Dinitrophenol	<5.000	40.00	39.31	98	40.00	38.90	97	1	38-150	20	
2,4-Dinitrotoluene	<2.500	40.00	41.79	104	40.00	41.20	103	1	80-129	20	
2,6-Dinitrotoluene	<2.500	40.00	40.20	101	40.00	39.27	98	3	79-126	20	
Fluoranthene	<2.500	40.00	41.12	103	40.00	43.53	109	6	66-127	20	
Fluorene	<2.500	40.00	41.44	104	40.00	43.89	110	6	76-126	20	
Hexachlorobenzene	<2.500	40.00	38.27	96	40.00	40.78	102	6	73-115	20	
Hexachlorobutadiene	<2.500	40.00	41.94	105	40.00	44.95	112	6	71-133	20	
Hexachlorocyclopentadiene	<2.500	40.00	36.01	90	40.00	39.85	100	11	60-139	20	
Hexachloroethane	<2.500	40.00	39.99	100	40.00	42.57	106	6	80-124	20	
Indeno(1,2,3-c,d)Pyrene	<2.500	40.00	42.94	107	40.00	46.83	117	9	60-138	20	

Relative Percent Difference RPD = 200*(D-F)/(D+F)

Laboratory Control Sample (LCS) Percent Recovery [D] = 100*(C)/[B]

Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = 100*(F)/[E]

H = Recovery of BS, BSD or both exceeded the laboratory control limits

F = RPD exceeded the laboratory control limits

L = Recovery of BS, BSD or both below the laboratory control limits

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Baltimore, MD 21228



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Date Prepared: 07/29/2010

Lab Batch ID: 83974

Date Analyzed: 07/30/2010

Units: ug/L

Sample: 33748-1-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Semivolatile Organic Compounds Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Isophorone	<2.500	40.00	41.04	103	40.00	41.41	104	1	72-130	20	
2-Methylnaphthalene	<2.500	40.00	38.28	96	40.00	40.53	101	5	77-128	20	
2-Methyl phenol	<2.500	40.00	44.80	112	40.00	44.41	111	1	71-134	20	
3&4-Methylphenol	<2.500	40.00	42.88	107	40.00	43.73	109	2	68-132	20	
4-Nitroaniline	<2.500	40.00	38.51	96	40.00	40.41	101	5	44-124	20	
3-Nitroaniline	<2.500	40.00	35.97	90	40.00	38.36	96	6	67-125	20	
2-Nitroaniline	<2.500	40.00	39.97	100	40.00	40.10	100	0	66-134	20	
Nitrobenzene	<2.500	40.00	42.78	107	40.00	44.51	111	4	69-130	20	
2-Nitrophenol	<2.500	40.00	36.35	91	40.00	38.70	97	6	88-123	20	
4-Nitrophenol	<2.500	40.00	40.83	102	40.00	41.81	105	3	66-129	20	
N-Nitrosodimethylamine	<2.500	40.00	45.14	113	40.00	45.34	113	0	71-132	20	
N-Nitrosodi-n-propyl amine	<2.500	40.00	40.61	102	40.00	40.18	100	2	64-130	20	
N-Nitrosodiphenylamine	<2.500	40.00	40.68	102	40.00	42.60	107	5	74-120	20	
Di-n-octyl phthalate	<5.000	40.00	47.29	118	40.00	48.28	121	3	62-144	20	
Pentachlorophenol	<5.000	40.00	41.61	104	40.00	43.29	108	4	45-121	20	
Phenanthrene	<2.500	40.00	40.84	102	40.00	43.38	108	6	70-126	20	
Phenol	<2.500	40.00	39.81	100	40.00	40.92	102	2	59-127	20	
Pyrene	<2.500	40.00	42.81	107	40.00	44.88	112	5	67-149	20	
1,2,4,5-Tetrachlorobenzene	<2.500	40.00	40.87	102	40.00	41.84	105	3	74-133	20	
2,3,4,6-Tetrachlorophenol	<2.500	40.00	46.77	117	40.00	47.87	120	3	70-112	20	H

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Relative Percent Difference RPD = $200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery [D] = $100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = $100 * (F) / [E]$

H= Recovery of BS,BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 83974

Units: ug/L

Date Prepared: 07/29/2010

Date Analyzed: 07/30/2010

Sample: 33748-1-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Semivolatle Organic Compounds	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
2,4,6-Trichlorophenol	<2.500	40.00	41.25	103	40.00	39.76	99	4	74-119	20	
2,4,5-Trichlorophenol	<2.500	40.00	40.29	101	40.00	40.93	102	1	83-123	20	

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Relative Percent Difference $RPD = 200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery $[D] = 100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery $[G] = 100 * (F) / [E]$

H = Recovery of BS, BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 83993

Units: ug/L

Date Prepared: 07/30/2010
Date Analyzed: 07/30/2010

Sample: 33795-1-BKS
Method: SW5030B / SW8260B

Project ID: 6219608
Analyst: 1014
Matrix: Water

Volatile Organic Compounds		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Dichlorodifluoromethane	<0.5000	50.00	38.26	77	50.00	38.37	77	0	58-124	20		
Chloromethane	<0.5000	50.00	48.12	96	50.00	46.32	93	3	58-131	20		
Vinyl Chloride	<0.5000	50.00	46.45	93	50.00	46.48	93	0	67-130	20		
Bromomethane	<0.5000	50.00	49.85	100	50.00	49.21	98	2	63-138	20		
Chloroethane	<0.5000	50.00	51.34	103	50.00	51.50	103	0	58-147	20		
Acetone	<5.0000	50.00	31.40	63	50.00	33.98	68	8	26-154	20		
Trichlorofluoromethane	<1.0000	50.00	41.40	83	50.00	42.02	84	1	62-133	20		
1,1-Dichloroethene	<0.5000	50.00	43.32	87	50.00	44.01	88	1	64-131	20		
Methylene Chloride	<0.5000	50.00	47.58	95	50.00	47.23	94	1	62-127	20		
trans-1,2-Dichloroethene	<0.5000	50.00	47.36	95	50.00	45.94	92	3	65-124	20		
1,1-Dichloroethane	<0.5000	50.00	48.01	96	50.00	47.23	94	2	62-131	20		
Vinyl Acetate	<0.5000	50.00	49.60	99	50.00	49.27	99	0	65-123	20		
2-Butanone	<5.0000	50.00	40.77	82	50.00	41.50	83	1	38-139	20		
cis-1,2-Dichloroethene	<0.5000	50.00	47.83	96	50.00	47.31	95	1	76-115	20		
Bromochloromethane	<0.5000	50.00	48.74	97	50.00	48.92	98	1	62-120	20		
Chloroform	<0.5000	50.00	47.16	94	50.00	45.73	91	3	70-120	20		
2,2-Dichloropropane	<0.5000	50.00	40.60	81	50.00	40.21	80	1	42-126	20		
1,1,1-Trichloroethane	<0.5000	50.00	45.23	90	50.00	45.17	90	0	69-119	20		
1,2-Dichloroethane	<0.5000	50.00	47.36	95	50.00	45.72	91	4	73-120	20		
1,1-Dichloropropene	<0.5000	50.00	45.11	90	50.00	44.75	90	0	78-114	20		

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Baltimore, MD 21228

Relative Percent Difference $RPD = 200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery $[D] = 100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery $[G] = 100 * (F) / [E]$

H= Recovery of BS,BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 83993

Units: ug/L

Date Prepared: 07/30/2010

Date Analyzed: 07/30/2010

Sample: 33795-1-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Volatile Organic Compounds	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Carbon Tetrachloride	<0.5000	50.00	44.76	90	50.00	45.32	91	1	66-124	20	
Benzene	<0.5000	50.00	46.71	93	50.00	45.50	91	2	76-113	20	
Dibromomethane	<0.5000	50.00	46.90	94	50.00	46.51	93	1	72-119	20	
1,2-Dichloropropane	<0.5000	50.00	47.20	94	50.00	45.51	91	3	71-119	20	
Acrylonitrile	<0.5000	50.00	48.83	98	50.00	49.58	99	1	60-133	20	
Trichloroethene	<0.5000	50.00	46.30	93	50.00	44.87	90	3	77-113	20	
Carbon Disulfide	<1.0000	50.00	50.54	101	50.00	49.61	99	2	47-160	20	
Bromodichloromethane	<0.5000	50.00	48.16	96	50.00	47.09	94	2	65-125	20	
cis-1,3-Dichloropropene	<0.5000	50.00	49.11	98	50.00	48.83	98	0	64-117	20	
4-Methyl-2-Pentanone	<2.5000	50.00	49.33	99	50.00	51.88	104	5	70-113	20	
trans-1,3-Dichloropropene	<0.5000	50.00	45.59	91	50.00	45.26	91	0	50-121	20	
1,1,2-Trichloroethane	<0.5000	50.00	47.75	96	50.00	47.99	96	0	74-119	20	
Toluene	<0.5000	50.00	46.45	93	50.00	45.29	91	2	77-114	20	
1,3-Dichloropropane	<0.5000	50.00	47.10	94	50.00	46.72	93	1	73-119	20	
2-Hexanone	<5.0000	50.00	41.98	84	50.00	42.89	86	2	47-141	20	
1,2-Dibromoethane	<0.5000	50.00	47.94	96	50.00	46.87	94	2	77-118	20	
Dibromochloromethane	<0.5000	50.00	45.48	91	50.00	44.34	89	2	58-125	20	
Acrolein	<10.00	50.00	83.31	167	50.00	71.77	144	15	40-165	20	H
1,1,1,2-Tetrachloroethane	<0.5000	50.00	49.63	99	50.00	48.14	96	3	71-121	20	
Bromoform	<2.5000	50.00	42.61	85	50.00	42.28	85	0	51-124	20	

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Baltimore, MD 21228

Relative Percent Difference $RPD = 200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery $[D] = 100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery $[G] = 100 * (F) / [E]$

H= Recovery of BS,BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 83993

Units: ug/L

Date Prepared: 07/30/2010

Date Analyzed: 07/30/2010

Sample: 33795-i-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Volatile Organic Compounds	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
trans-1,4-Dichloro-2-butene	<2.500	50.00	41.60	83	50.00	40.84	82	1	44-125	20	
Tetrachloroethene	<0.5000	50.00	45.08	90	50.00	44.67	89	1	76-114	20	
Chlorobenzene	<0.5000	50.00	46.89	94	50.00	45.39	91	3	81-112	20	
Ethylbenzene	<0.5000	50.00	47.37	95	50.00	46.10	92	3	76-119	20	
m,p-Xylenes	<1.000	100	95.04	95	100	92.80	93	2	81-117	20	
Styrene	<0.5000	50.00	48.62	97	50.00	47.35	95	2	78-124	20	
1,1,2,2-Tetrachloroethane	<0.5000	50.00	47.19	94	50.00	47.06	94	0	72-122	20	
o-Xylene	<0.5000	50.00	48.92	98	50.00	47.82	96	2	82-119	20	
1,2,3-Trichloropropane	<0.5000	50.00	56.05	112	50.00	57.79	116	4	66-119	20	
1,3-Dichlorobenzene	<0.5000	50.00	47.99	96	50.00	45.87	92	4	79-117	20	
1,4-Dichlorobenzene	<0.5000	50.00	46.90	94	50.00	45.39	91	3	77-117	20	
1,2-Dichlorobenzene	<0.5000	50.00	48.91	98	50.00	47.20	94	4	81-118	20	
1,2-Dibromo-3-Chloropropane	<5.000	50.00	44.59	89	50.00	45.45	91	2	49-125	20	
1,2,4-Trichlorobenzene	<0.5000	50.00	50.29	101	50.00	48.95	98	3	57-134	20	
Naphthalene	<0.5000	50.00	52.98	106	50.00	53.67	107	1	62-121	20	
1,2,3-Trichlorobenzene	<0.5000	50.00	52.90	106	50.00	50.93	102	4	64-132	20	
Iodomethane (Methyl Iodide)	<10.00	50.00	50.75	102	50.00	49.30	99	3	63-141	20	

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Baltimore, MD 21228

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$
Laboratory Control Sample (LCS) Percent Recovery [D] = $100 * (C)/[B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery [G] = $100 * (F)/[E]$

H = Recovery of BS, BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 84001

Units: ug/L

Date Prepared: 07/31/2010

Date Analyzed: 07/31/2010

Sample: 33798-1-BKS

Method: SW5030B / SW8260B

Project ID: 6219608

Analyst: 1014

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Volatile Organic Compounds	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Bk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Dichlorodifluoromethane	<0.5000	50.00	34.26	69	50.00	36.15	72	4	58-124	20	
Chloromethane	<0.5000	50.00	41.38	83	50.00	43.76	88	6	58-131	20	
Vinyl Chloride	<0.5000	50.00	41.03	82	50.00	44.29	89	8	67-130	20	
Bromomethane	<0.5000	50.00	45.95	92	50.00	49.70	99	7	63-138	20	
Chloroethane	<0.5000	50.00	46.39	93	50.00	51.32	103	10	58-147	20	
Acetone	<5.0000	50.00	36.75	74	50.00	39.54	79	7	26-154	20	
Trichlorofluoromethane	<1.0000	50.00	36.56	73	50.00	39.73	79	8	62-133	20	
1,1-Dichloroethene	<0.5000	50.00	40.50	81	50.00	43.75	88	8	64-131	20	
Methylene Chloride	<0.5000	50.00	45.02	90	50.00	48.15	96	6	62-127	20	
trans-1,2-Dichloroethene	<0.5000	50.00	44.21	88	50.00	47.16	94	7	65-124	20	
1,1-Dichloroethane	<0.5000	50.00	43.22	86	50.00	45.92	92	7	62-131	20	
Vinyl Acetate	<0.5000	50.00	47.43	95	50.00	49.18	98	3	65-123	20	
2-Butanone	<5.0000	50.00	42.54	85	50.00	45.39	91	7	38-139	20	
cis-1,2-Dichloroethene	<0.5000	50.00	44.49	89	50.00	47.67	95	7	76-115	20	
Bromochloromethane	<0.5000	50.00	46.15	92	50.00	47.63	95	3	62-120	20	
Chloroform	<0.5000	50.00	42.34	85	50.00	44.76	90	6	70-120	20	
2,2-Dichloropropane	<0.5000	50.00	39.49	79	50.00	43.30	87	10	42-126	20	
1,1,1-Trichloroethane	<0.5000	50.00	41.63	83	50.00	44.56	89	7	69-119	20	
1,2-Dichloroethane	<0.5000	50.00	42.60	85	50.00	44.21	88	3	73-120	20	
1,1-Dichloropropene	<0.5000	50.00	40.88	82	50.00	43.90	88	7	78-114	20	

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Baltimore, MD 21228

Relative Percent Difference $RPD = 200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery $[D] = 100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery $[G] = 100 * (F) / [E]$

H = Recovery of BS, BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Lab Batch ID: 84001

Units: ug/L

Date Prepared: 07/31/2010

Date Analyzed: 07/31/2010

Sample: 33798-1-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Volatile Organic Compounds	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Carbon Tetrachloride	<0.5000	50.00	41.06	82	50.00	44.02	88	7	66-124	20	
Benzene	<0.5000	50.00	43.08	86	50.00	45.24	90	5	76-113	20	
Dibromomethane	<0.5000	50.00	44.29	89	50.00	45.61	91	2	72-119	20	
1,2-Dichloropropane	<0.5000	50.00	44.50	89	50.00	46.56	93	4	71-119	20	
Acrylonitrile	<5.000	50.00	48.05	96	50.00	49.46	99	3	60-133	20	
Trichloroethene	<0.5000	50.00	42.46	85	50.00	45.36	91	7	77-113	20	
Carbon Disulfide	<1.000	50.00	46.83	94	50.00	50.80	102	8	47-160	20	
Bromodichloromethane	<0.5000	50.00	44.77	90	50.00	46.78	94	4	65-125	20	
cis-1,3-Dichloropropene	<0.5000	50.00	46.42	93	50.00	49.04	98	5	64-117	20	
4-Methyl-2-Pentanone	<2.500	50.00	51.08	102	50.00	52.18	104	2	70-113	20	
trans-1,3-Dichloropropene	<0.5000	50.00	44.16	88	50.00	45.46	91	3	50-121	20	
1,1,2-Trichloroethane	<0.5000	50.00	45.29	91	50.00	46.66	93	2	74-119	20	
Toluene	<0.5000	50.00	42.89	86	50.00	45.55	91	6	77-114	20	
1,3-Dichloropropane	<0.5000	50.00	45.22	90	50.00	46.90	94	4	73-119	20	
2-Hexanone	<5.000	50.00	43.54	87	50.00	45.35	91	4	47-141	20	
1,2-Dibromomethane	<0.5000	50.00	46.44	93	50.00	48.07	96	3	77-118	20	
Dibromochloromethane	<0.5000	50.00	44.72	89	50.00	46.67	93	4	58-125	20	
Acrolein	<10.00	50.00	76.51	153	50.00	63.11	126	19	40-165	20	
1,1,1,2-Tetrachloroethane	<0.5000	50.00	47.09	94	50.00	48.98	98	4	71-121	20	
Bromoform	<2.500	50.00	45.25	91	50.00	46.11	92	1	51-124	20	

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Relative Percent Difference $RPD = 200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery $[D] = 100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery $[G] = 100 * (F) / [E]$

H = Recovery of BS, BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS, BSD or both below the laboratory control limits



LCS/LCSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 1

Date Prepared: 07/31/2010

Lab Batch ID: 84001

Date Analyzed: 07/31/2010

Units: ug/L

Sample: 33798-1-BKS

Project ID: 6219608

Analyst: 1014

Matrix: Water

Volatile Organic Compounds	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blank Spike Duplicate %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
trans-1,4-Dichloro-2-butene	<2.500	50.00	45.15	90	50.00	43.66	87	3	44-125	20	
Tetrachloroethene	<0.5000	50.00	42.83	86	50.00	45.10	90	5	76-114	20	
Chlorobenzene	<0.5000	50.00	44.19	88	50.00	46.01	92	4	81-112	20	
Ethylbenzene	<0.5000	50.00	44.49	89	50.00	47.23	94	5	76-119	20	
m,p-Xylenes	<1.000	100	90.34	90	100	95.66	96	6	81-117	20	
Styrene	<0.5000	50.00	46.31	93	50.00	48.14	96	3	78-124	20	
i,1,2,2-Tetrachloroethane	<0.5000	50.00	46.39	93	50.00	47.70	95	2	72-122	20	
o-Xylene	<0.5000	50.00	46.50	93	50.00	48.71	97	4	82-119	20	
1,2,3-Trichloropropane	<0.5000	50.00	56.02	112	50.00	60.14	120	7	66-119	20	H
1,3-Dichlorobenzene	<0.5000	50.00	46.12	92	50.00	47.98	96	4	79-117	20	
1,4-Dichlorobenzene	<0.5000	50.00	44.86	90	50.00	46.63	93	3	77-117	20	
1,2-Dichlorobenzene	<0.5000	50.00	46.96	94	50.00	48.62	97	3	81-118	20	
1,2-Dibromo-3-Chloropropane	<5.000	50.00	45.55	91	50.00	46.19	92	1	49-125	20	
1,2,4-Trichlorobenzene	<0.5000	50.00	49.38	99	50.00	51.67	103	4	57-134	20	
Naphthalene	<0.5000	50.00	53.11	106	50.00	55.21	110	4	62-121	20	
1,2,3-Trichlorobenzene	<0.5000	50.00	50.54	101	50.00	51.78	104	3	64-132	20	
Iodomethane (Methyl Iodide)	<10.00	50.00	47.90	96	50.00	50.70	101	5	63-141	20	

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Relative Percent Difference RPD = $200 * (D-F) / (D+F)$
Laboratory Control Sample (LCS) Percent Recovery $[D] = 100 * (C) / [B]$
Laboratory Control Sample Duplicate (LCSD) Percent Recovery $[G] = 100 * (F) / [E]$

H = Recovery of BS, BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits
L = Recovery of BS, BSD or both below the laboratory control limits



Blank Spike Recovery

Project Name: Gude Landfill

Work Order #: 10072721

Project ID: 6219608

Prep Batch #: 33783

Date Prepared: 08/02/2010

Sample ID: 33783-1-BKS

Matrix: Water

Lab Batch ID 84013

Date Analyzed: 08/02/2010

Analyst: 1034

Reporting Units: ug/L

BLANK /BLANK SPIKE RECOVERY STUDY

Total Metals Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Antimony	<0.5000	40.00	42.26	106	75-125	
Arsenic	0.5000	40.00	39.61	98	75-125	
Barium	<0.5000	40.00	41.34	103	75-125	
Beryllium	<0.5000	40.00	28.64	72	75-125	L
Cadmium	<0.5000	40.00	41.76	104	75-125	
Chromium	<0.5000	40.00	41.85	105	75-125	
Cobalt	<0.5000	40.00	41.72	104	75-125	
Copper	0.7800	40.00	44.22	109	75-125	
Lead	<0.5000	40.00	43.24	108	75-125	
Mercury	<0.1000	1.000	0.9300	93	75-125	
Nickel	<0.5000	40.00	42.76	107	75-125	
Selenium	<0.5000	40.00	36.97	92	75-125	
Silver	<0.5000	40.00	42.87	107	75-125	
Thallium	<0.5000	40.00	40.48	101	75-125	
Tin	<2.500	40.00	43.93	110	75-125	
Vanadium	<2.500	40.00	41.72	104	75-125	
Zinc	<10.00	40.00	39.93	100	75-125	

Blank Spike Recovery [D] = $100 * (([C] - [A]) / [B])$

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Baltimore, MD 21228

H = Recovery of BS, BSD or both exceeded the laboratory control limits
F = RPD exceeded the laboratory control limits



Blank Spike Recovery

Project Name: Gude Landfill

Work Order #: 10072721

Project ID: 6219608

Prep Batch #: 33783

Date Prepared: 08/02/2010

Sample ID: 33783-1-BKS

Matrix: Water

Lab Batch ID 84027

Date Analyzed: 08/03/2010

Analyst: 1034

Reporting Units: ug/L

BLANK /BLANK SPIKE RECOVERY STUDY

Total Metals Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Antimony	<0 5000	40 00	40 93	102	75-125	
Arsenic	<0 5000	40 00	45 50	114	75-125	
Barium	<0 5000	40 00	37 31	93	75-125	
Beryllium	<0 5000	40 00	22 10	55	75-125	L
Cadmium	<0 5000	40 00	40 12	100	75-125	
Chromium	<0 5000	40 00	44 81	112	75-125	
Cobalt	<0 5000	40 00	45 52	114	75-125	
Copper	<0 5000	40 00	44 93	112	75-125	
Lead	<0 5000	40 00	41 89	105	75-125	
Mercury	<0 1000	1 000	0 9400	94	75-125	
Nickel	<0 5000	40 00	43 99	110	75-125	
Selenium	<0 5000	40 00	39 54	99	75-125	
Silver	<0 5000	40 00	40 10	100	75-125	
Thallium	<0 5000	40 00	39 61	99	75-125	
Tin	<2 500	40 00	42 25	106	75-125	
Vanadium	<2 500	40 00	42 90	107	75-125	
Zinc	<10 00	40 00	41 61	104	75-125	

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Baltimore, MD 21228

Blank Spike Recovery [D] = $100 * (([C] - [A]) / [B])$

H = Recovery of BS, BSD or both exceeded the laboratory control limits

F = RPD exceeded the laboratory control limits



Form 3 - MS / MSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Project ID: 6219608
 Analyst: 1022
 Matrix: Ground Water

Client Sample Id: Gude-OB102-GW S
 Sample ID: 10072721-001 S
 Method: /SW9014

Date Prepared: 08/02/2010
 Date Analyzed: 08/02/2010

Prep Batch #: 83997
 Lab Batch ID: 83997
 Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Cyanide Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits	Control Limits %RPD	Flag
									%R		
Cyanide, Total	<0.0250	0.1000	0.0916	92	0.1000	0.0884	88	4	80-120	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

XF = Recovery of MS, MSD or both outside of OC Criteria and RPD exceeded the laboratory control limits.

Phase Separation Science, Inc.
 6630 Baltimore National Pike
 Baltimore, MD 21228



Form 3 - MS / MSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 33783

Lab Batch ID: 84013

Reporting Units: ug/L

Date Prepared: 08/02/2010
Date Analyzed: 08/02/2010

Client Sample Id: Gude-OB102-GW S
Sample ID: 10072721-001 S
Method: SW3010A/SW6020

Project ID: 6219608
Analyst: 1034
Matrix: Ground Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Metals Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Antimony	<0.5000	40.00	41.16	103	40.00	40.86	102	1	75-125	25
Arsenic	2.840	40.00	38.89	90	40.00	39.06	91	1	75-125	25	
Barium	340.7	40.00	381.1	101	40.00	374.5	85	17	75-125	25	
Beryllium	<0.5000	40.00	29.25	73	40.00	28.77	72	1	75-125	25	X
Cadmium	1.680	40.00	42.01	101	40.00	41.50	100	1	75-125	25	
Chromium	8.160	40.00	47.32	98	40.00	47.83	99	1	75-125	25	
Cobalt	85.88	40.00	124.6	97	40.00	124.6	97	0	75-125	25	
Copper	104.6	40.00	142.7	95	40.00	143.2	97	2	75-125	25	
Lead	3.450	40.00	48.18	112	40.00	48.33	112	0	75-125	25	
Mercury	<0.1000	1.000	1.140	114	1.000	1.130	113	1	75-125	25	
Nickel	97.26	40.00	135.6	96	40.00	136	97	1	75-125	25	
Selenium	0.5200	40.00	33.77	83	40.00	34.88	86	4	75-125	25	
Silver	<0.5000	40.00	40.14	100	40.00	39.97	100	0	75-125	25	
Thallium	1.500	40.00	43.86	106	40.00	44.44	107	1	75-125	25	
Tin	<2.500	40.00	45.04	113	40.00	43.98	110	3	75-125	25	
Vanadium	8.100	40.00	47.61	99	40.00	47.77	99	0	75-125	25	
Zinc	39.29	40.00	73.54	86	40.00	72.87	84	2	75-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

XF = Recovery of MS, MSD or both outside of QC Criteria and RPD exceeded the laboratory control limits.

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228



Form 3 - MS / MSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 33798

Lab Batch ID: 84001

Reporting Units: ug/L

Date Prepared: 07/31/2010
Date Analyzed: 07/31/2010

Client Sample Id: Gude-OB12-GW S
Sample ID: 10072813-001 S
Method: SW5030B /SW8260B

Project ID: 6219608
Analyst: 1014
Matrix: Ground Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Volatile Organic Compounds Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Dichlorodifluoromethane	23	50	69	92	50	68	90	2	52-144	25	
Chloromethane	<0.50	50	46	92	50	45	90	2	53-141	25	
Vinyl Chloride	4.4	50	54	99	50	52	95	4	62-141	25	
Bromomethane	<0.50	50	50	100	50	48	96	4	51-152	25	
Chloroethane	1.2	50	55	108	50	54	106	2	60-146	25	
Acetone	<5.0	50	27	54	50	31	62	14	34-94	25	
Trichlorofluoromethane	<1.0	50	42	84	50	40	80	5	42-165	25	
1,1-Dichloroethene	<0.50	50	46	92	50	45	90	2	55-139	25	
Methylene Chloride	9.5	50	55	91	50	56	93	2	58-138	25	
trans-1,2-Dichloroethene	2.2	50	51	98	50	49	94	4	63-136	25	
1,1-Dichloroethane	25	50	73	96	50	71	92	4	57-141	25	
Vinyl Acetate	<0.50	50	44	88	50	43	86	2	36-137	25	
2-Butanone	<5.0	50	37	74	50	39	78	5	38-101	25	
cis-1,2-Dichloroethene	29	50	77	96	50	76	94	2	77-120	25	
Bromochloromethane	<0.50	50	46	92	50	46	92	0	63-124	25	
Chloroform	<0.50	50	45	90	50	45	90	0	70-128	25	
2,2-Dichloropropane	<0.50	50	39	78	50	38	76	3	33-133	25	
1,1,1-Trichloroethane	<0.50	50	47	94	50	46	92	2	62-138	25	
1,2-Dichloroethane	<0.50	50	47	94	50	46	92	2	72-127	25	
1,1-Dichloropropene	<0.50	50	47	94	50	46	92	2	71-129	25	
Carbon Tetrachloride	<0.50	50	48	96	50	47	94	2	65-136	25	
Benzene	3.4	50	49	91	50	48	89	2	74-120	25	
Dibromomethane	<0.50	50	45	90	50	45	90	0	70-126	25	
1,2-Dichloropropane	6.9	50	53	92	50	53	92	0	71-123	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

XF = Recovery of MS, MSD or both outside of QC Criteria and RPD exceeded the laboratory control limits.

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228



Form 3 - MS / MSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #:

Lab Batch ID: 84001

Reporting Units: ug/L

Client Sample Id:

Sample ID: 10072813-001 S

Method: SW5030B /SW8260B

Project ID: 6219608

Analyst: I014

Matrix: Ground Water

Date Prepared: 07/31/2010

Date Analyzed: 07/31/2010

Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<5.0	50	49	98	48	96	2	46-152	25	
22	50	69	94	67	90	4	74-122	25	
<1.0	50	52	104	51	102	2	42-178	25	
<0.50	50	46	92	47	94	2	65-130	25	
<0.50	50	45	90	45	90	0	62-120	25	
<2.5	50	46	92	47	94	2	68-110	25	
<0.50	50	43	86	43	86	0	41-128	25	
<0.50	50	46	92	46	92	0	75-122	25	
<0.50	50	45	90	44	88	2	45-146	25	
<0.50	50	46	92	23	46	67	70-124	25	XF
<5.0	50	38	76	41	82	8	52-105	25	
<0.50	50	46	92	46	92	0	75-124	25	
<0.50	50	45	90	45	90	0	55-133	25	
<1.0	50	94	188	100	200	6	22-167	25	X
<0.50	50	48	96	47	94	2	71-126	25	
<2.5	50	43	86	44	88	2	48-128	25	
<2.5	50	42	84	42	84	0	40-123	25	
29	50	75	92	75	92	0	65-136	25	
1.7	50	47	91	46	89	2	77-120	25	
<0.50	50	47	94	46	92	2	71-131	25	
<1.0	100	93	93	92	92	1	73-132	25	
<0.50	50	46	92	46	92	0	72-132	25	
<0.50	50	45	90	46	92	2	70-128	25	
<0.50	50	47	94	47	94	0	76-131	25	

Matrx Spike Percent Recovery [D] = 100*(C-A)/B

Matrx Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

XF = Recovery of MS, MSD or both outside of QC Criteria and RPD exceeded the laboratory control limits.

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228



Form 3 - MS / MSD Recoveries

Project Name: Gude Landfill

Work Order #: 10072721

Prep Batch #: 84001
 Lab Batch ID: 84001
 Reporting Units: ug/L

Client Sample Id: 10072813-001 S
 Sample ID: SW5030B/SW8260B
 Method: SW5030B/SW8260B

Project ID: 6219608
 Analyst: 1014
 Matrix: Ground Water

Date Prepared: 07/31/2010
 Date Analyzed: 07/31/2010

Volatile Organic Compounds Analytes	Parent Sample Result A	Spike Added B	Spiked Sample Result C	Spiked Sample %R D	Spike Added E	Duplicate Spiked Sample Result F	Spiked Dup. %R G	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,2,3-Trichloropropane	<0.50	50	55	110	50	59	118	7	67-119	25	
1,3-Dichlorobenzene	<0.50	50	45	90	50	45	90	0	65-128	25	
1,4-Dichlorobenzene	5.5	50	50	89	50	49	87	2	64-128	25	
1,2-Dichlorobenzene	<0.50	50	47	94	50	47	94	0	68-130	25	
1,2-Dibromo-3-Chloropropane	<5.0	50	40	80	50	44	88	10	41-130	25	
1,2,4-Trichlorobenzene	<0.50	50	45	90	50	46	92	2	47-135	25	
Naphthalene	<0.50	50	45	90	50	49	98	9	50-119	25	
1,2,3-Trichlorobenzene	<0.50	50	45	90	50	49	98	9	58-127	25	
Iodomethane (Methyl Iodide)	<10	50	48	96	50	47	94	2	57-152	25	

Matrix Spike Percent Recovery |D| = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery |G| = 100*(F-A)/E

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

XF = Recovery of MS, MSD or both outside of OC Criteria and RPD exceeded the laboratory control limits.

Phase Separation Science, Inc.
 6630 Baltimore National Pike
 Baltimore, MD 21228

ANALYTICAL REPORT

REVISED

PROJECT NO. 6219608/10072721

Phase Sep Science East Station

Lot #: COG290563

Betsy Orr

Phase Separation Sciences
6630 Baltimore National Pike
Route 40 West
Baltimore, MD 21228

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch
Project Manager

August 20, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW	X
US Dept of Agriculture	(#P330-10-00139)	HW	X
Arkansas	(#88-0690)	Foreign Soil Import Permit	X
California – NELAC	04224CA	WW	X
Connecticut	(#PH-0688)	HW	X
Florida – NELAC	(#E871008)	WW	X
Illinois – NELAC	(#002319)	HW	X
Kansas – NELAC	(#E-10350)	WW	X
Louisiana – NELAC	(#04041)	HW	X
New Hampshire – NELAC	(#203010)	WW	X
New Jersey – NELAC	(PA-005)	--	--
New York – NELAC	(#11182)	WW	X
North Carolina	(#434)	HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
South Carolina	(#89014002)	HW	X
Utah – NELAC	(STLP)	WW	X
West Virginia	(#142)	HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Ptsburgh_Updated 051910.doc

CASE NARRATIVE

Phase Separation Sciences

Lot # C0G290563

Sample Receiving:

TestAmerica Pittsburgh received samples on July 29, 2010. The cooler was received within the proper temperature range.

Report reissued due to Organphos for 001 wasn't originally reported.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

OPP's:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.



Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

W.O. No.: **10072721**
P.O. No.:
Project Name: **Gude Landfill**
Project Number: **6219608**

Samples Transferred To:
Test America
5710 Executive Drive, Suite 106
Catonsville, MD 21228

For Questions or issues please contact: John Slowikowski

Report Due On: ~~08/03/10 05:00~~ TEST AMERICA STANDARD

Contact: Ken Ives
Phone: 410-869-0085

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10072721-001	Gude-OB102-GW	07/27/10	10:35	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10072721-001	Gude-OB102-GW	07/27/10	10:35	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072721-003	Gude-MW2B-GW	07/27/10	13:00	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10072721-003	Gude-MW2B-GW	07/27/10	13:00	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072721-005	Gude-MW2A-GW	07/27/10	14:05	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10072721-005	Gude-MW2A-GW	07/27/10	14:05	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072721-007	Gude-OB08-GW	07/27/10	11:40	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10072721-007	Gude-OB08-GW	07/27/10	11:40	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072721-009	Gude-OB08A-GW	07/27/10	13:15	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10072721-009	Gude-OB08A-GW	07/27/10	13:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: **Results, copy of COC and OC**

Perform Q.C. on Sample: _____

Send Report Attn: **RATSY ORR**

Airbill No.: _____ Carrier: **TEST AMERICA DOUBLE**

Condition Upon Receipt: _____

Comments: _____

Samples Relinquished By: *[Signature]* Date: **7/28/10** Time: **10:27** Samples Received By: *[Signature]*

Samples Relinquished By: *[Signature]* Date: **7-28-2010** Time: **15:33** Samples Received By: _____

Samples Relinquished By: _____ Date: **7/29/10** Time: **10:25** Samples Received By: *[Signature]*

Sub-Contractor
Test America

Method
SW8141A

Matrix
Water

Analyte Name
Phorate - + DISULFOTON
Dimethoate
Parathion, Methyl + FAWMPLUR
Zinophos -
Parathion, Ethyl-

METHODS SUMMARY

COG290563

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

COG290563

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L4V5Q	001	GUDE-OB102-GW	07/27/10	10:35
L4V5X	002	GUDE-MW2B-GW	07/27/10	13:00
L4V51	003	GUDE-MW2A-GW	07/27/10	14:05
L4V52	004	GUDE-OB08-GW	07/27/10	11:40
L4V53	005	GUDE-OB08A-GW	07/27/10	13:15

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUDF-OB102-GW

GC Semivolatiles

Lot-Sample #....: COG290563-001 Work Order #....: L4V5Q1AC Matrix.....: WATER
Date Sampled....: 07/27/10 Date Received...: 07/29/10 MS Run #.....:
Prep Date.....: 07/30/10 Analysis Date...: 07/31/10
Prep Batch #....: 0211217 Analysis Time...: 20:13
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	98	(45 - 145)
Tributyl phosphate	102	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-MW2B-GW

GC Semivolatiles

Lot-Sample #...: COG290563-002 Work Order #...: L4V5X1AC Matrix.....: WATER
 Date Sampled...: 07/27/10 Date Received...: 07/29/10 MS Run #.....:
 Prep Date.....: 07/30/10 Analysis Date...: 07/31/10
 Prep Batch #...: 0211217 Analysis Time...: 22:26
 Dilution Factor: 0.98
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Triphenyl phosphate	93	(45 - 145)
Tributyl phosphate	95	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-MW2A-GW

GC Semivolatiles

Lot-Sample #...: COG290563-003 **Work Order #...**: L4V511AC **Matrix.....**: WATER
Date Sampled...: 07/27/10 **Date Received...**: 07/29/10 **MS Run #.....**:
Prep Date.....: 07/30/10 **Analysis Date...**: 07/31/10
Prep Batch #...: 0211217 **Analysis Time...**: 22:53
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	96	(45 - 145)	
Tributyl phosphate	98	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB08-GW

GC Semivolatiles

Lot-Sample #...: COG290563-004 **Work Order #...**: L4V521AC **Matrix.....**: WATER
Date Sampled...: 07/27/10 **Date Received...**: 07/29/10 **MS Run #.....**:
Prep Date.....: 07/30/10 **Analysis Date...**: 07/31/10
Prep Batch #...: 0211217 **Analysis Time...**: 23:20
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	80	(45 - 145)
Tributyl phosphate	85	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-OB08A-GW

GC Semivolatiles

Lot-Sample #....: COG290563-005 Work Order #....: L4V531AC Matrix.....: WATER
 Date Sampled....: 07/27/10 Date Received...: 07/29/10 MS Run #.....:
 Prep Date.....: 07/30/10 Analysis Date...: 07/31/10
 Prep Batch #....: 0211217 Analysis Time...: 23:47
 Dilution Factor: 0.94
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.94	ug/L
Ethyl parathion	ND	0.94	ug/L
Phorate	ND	0.94	ug/L
Dimethoate	ND	0.94	ug/L
Disulfoton	ND	0.94	ug/L
Famphur	ND	0.94	ug/L
Methyl parathion	ND	0.94	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	88	(45 - 145)
Tributyl phosphate	93	(49 - 122)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: COG290563 Work Order #...: L4XC31AE Matrix.....: WATER
 MB Lot-Sample #: COG300000-217
 Prep Date.....: 07/30/10 Analysis Time...: 20:39
 Analysis Date...: 07/31/10 Prep Batch #...: 0211217
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Thionazin	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Ethyl parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Triphenyl phosphate		(45 - 145)
Tributyl phosphate		(49 - 122)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: COG290563 Work Order #...: L4XC31AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: COG300000-217 L4XC31AD-LCSD
 Prep Date.....: 07/30/10 Analysis Date...: 07/31/10
 Prep Batch #...: 0211217 Analysis Time...: 21:06
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Thionazin	103	(44 - 128)			SW846 8141A
	104	(44 - 128)	1.4	(0-21)	SW846 8141A
Phorate	110	(41 - 135)			SW846 8141A
	110	(41 - 135)	0.090	(0-24)	SW846 8141A
Disulfoton	101	(45 - 124)			SW846 8141A
	102	(45 - 124)	0.78	(0-30)	SW846 8141A
Methyl parathion	100	(41 - 148)			SW846 8141A
	102	(41 - 148)	1.2	(0-30)	SW846 8141A
Ethyl parathion	113	(56 - 125)			SW846 8141A
	115	(56 - 125)	1.7	(0-21)	SW846 8141A
Famphur	105	(52 - 131)			SW846 8141A
	108	(52 - 131)	3.4	(0-24)	SW846 8141A
Dimethoate	131	(26 - 136)			SW846 8141A
	131	(26 - 136)	0.38	(0-22)	SW846 8141A

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	81	(45 - 145)
	95	(45 - 145)
Tributyl phosphate	85	(49 - 122)
	100	(49 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Phase Separation Sciences

Client Sample ID: GUDK-OB102-GW

General Chemistry

Lot-Sample #...: COG290563-001
Date Sampled...: 07/27/10

Work Order #...: L4V5Q
Date Received...: 07/29/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time...: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW2B-GW

General Chemistry

Lot-Sample #...: COG290563-002
Date Sampled...: 07/27/10

Work Order #...: L4V5X
Date Received...: 07/29/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time...: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW2A-GW

General Chemistry

Lot-Sample #...: COG290563-003
Date Sampled...: 07/27/10

Work Order #...: L4V51
Date Received...: 07/29/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time...: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB08-GW

General Chemistry

Lot-Sample #...: COG290563-004
Date Sampled...: 07/27/10

Work Order #...: L4V52
Date Received...: 07/29/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030E/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time..: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB08A-GW

General Chemistry

Lot-Sample #...: COG290563-005
Date Sampled...: 07/27/10

Work Order #...: L4V53
Date Received...: 07/29/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time...: 14:00	MS Run #.....:	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: COG290563

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L40M41AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	COH020000-083 08/02/10	0214083
		Dilution Factor: 1				
		Analysis Time...: 14:00				

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: COG290563

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide							
	98	(85 - 115)			SW846 9030B/9034	08/02/10	0214083
	98	(85 - 115)	0.42	(0-20)	SW846 9030B/9034	08/02/10	0214083
			Dilution Factor: 1		Analysis Time..: 14:00		

NOTE(S) :

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

Analytical Report for

EA Engineering

Certificate of Analysis No.: 10072813

Project Manager: Pete Lekas

Project Name : Gude Landfill

Project Location: Rockville, MD

Project ID : 6219608



August 10, 2010

Phase Separation Science, Inc.

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**PHASE
SEPARATION
SCIENCE,
INC.**



August 10, 2010

Pete Lekas
EA Engineering
15 Loveton Circle
Sparks, MD 21152

Reference: PSS Work Order No: **10072813**
Project Name : Gude Landfill
Project Location: Rockville, MD
Project ID.: 6219608

Dear Pete Lekas :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10072813**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 26, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

A handwritten signature in black ink that reads "Dan Prucnal". The signature is written in a cursive style and is positioned above a horizontal line.

Dan Prucnal
Laboratory Manager



Case Narrative Summary

Client Name: EA Engineering

Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10072813

The following samples were received under chain of custody by Phase Separation Science (PSS) on 07/28/2010 at 04:25 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10072813-001	Gude-OB12-GW	GROUND WATER	07/28/2010 09:30
10072813-002	TB-11	WATER	07/28/2010 09:30
10072813-003	Gude-OB015-GW	GROUND WATER	07/28/2010 11:30
10072813-004	TB-18	WATER	07/28/2010 11:30
10072813-005	Gude-MW1B-GW	GROUND WATER	07/28/2010 13:45
10072813-006	TB-19	WATER	07/28/2010 13:45
10072813-007	Gude-MW06-GW	GROUND WATER	07/28/2010 08:55
10072813-008	TB-14	WATER	07/28/2010 08:55
10072813-009	Gude-OB01-GW	GROUND WATER	07/28/2010 10:25
10072813-010	TB-15	WATER	07/28/2010 10:25
10072813-011	Gude-OB02-GW	GROUND WATER	07/28/2010 12:20
10072813-012	TB-16	WATER	07/28/2010 12:20
10072813-013	Gude-OB02A-GW	GROUND WATER	07/28/2010 14:30
10072813-014	TB-17	WATER	07/28/2010 14:30

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Mercury CCV exceedance at 69% and 75%. Beryllium CCV exceedance of 88%; limits are 90-110%.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Arsenic	0.9	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:26	1034
Barium	13	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:36	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Chromium	0.6	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:26	1034
Cobalt	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Copper	0.6	ug/L	1.0		1	0.5	08/02/10	08/03/10 13:36	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 13:36	1034
Nickel	6.6	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:26	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:26	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:26	1034
Zinc	14	ug/L	10		1	10	08/02/10	08/02/10 19:26	1034

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Endrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 04:19	1029
Toxaphene	ND	ug/L	10		5	5	07/30/10	08/06/10 04:19	1029
Chlordane	ND	ug/L	10		5	5	07/30/10	08/06/10 04:19	1029

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 14:34	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 13:54	1029
2,4,5-TP (Silvex)	0.2	ug/L	0.2	J	1	0.1	07/31/10	08/03/10 13:54	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 13:54	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 13:54	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	23	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Vinyl Chloride	4	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Chloroethane	1	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 17:55	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 17:55	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Methylene Chloride	9	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
trans-1,2-Dichloroethene	2	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,1-Dichloroethane	25	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 17:55	1014
cis-1,2-Dichloroethene	29	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Benzene	3	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,2-Dichloropropane	7	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 17:55	1014
Trichloroethene	22	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 17:55	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 17:55	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 17:55	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 17:55	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 17:55	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 17:55	1014
Tetrachloroethene	29	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Chlorobenzene	2	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 17:55	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,4-Dichlorobenzene	5	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 17:55	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 17:55	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 17:55	1014
Ethyl ether (TIC)	11	ug/L	5		1	5	07/31/10	07/31/10 17:55	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:54	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:54	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:54	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/30/10 22:54	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:54	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB12-GW **Date/Time Sampled: 07/28/2010 09:30** **PSS Sample ID: 10072813-001**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:54	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Arsenic	1.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Barium	72	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:01	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Chromium	3.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Cobalt	6.8	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Copper	2.2	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:01	1034
Lead	0.7	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:51	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:01	1034
Nickel	10	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:51	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:51	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:51	1034
Zinc	20	ug/L	10		1	10	08/02/10	08/02/10 19:51	1034

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 04:47	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 04:47	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 04:47	1029

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:03	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 14:35	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 14:35	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 14:35	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 14:35	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Vinyl Chloride	3	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 18:23	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 18:23	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,1-Dichloroethane	3	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 18:23	1014
cis-1,2-Dichloroethene	0.9	ug/L	1	J	1	0.5	07/31/10	07/31/10 18:23	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 18:23	1014
Trichloroethene	2	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 18:23	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 18:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 18:23	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 18:23	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 18:23	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 18:23	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 18:23	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 18:23	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:23	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 18:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 23:10	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 23:10	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 23:10	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/31/10 23:10	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 23:10	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB015-GW **Date/Time Sampled: 07/28/2010 11:30** **PSS Sample ID: 10072813-003**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:10	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Arsenic	1.0	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 19:57	1034
Barium	6.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:07	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Chromium	19	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Cobalt	2.4	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Copper	9.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Lead	1.7	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:07	1034
Nickel	14	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 19:57	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:57	1034
Vanadium	5.9	ug/L	5.0		1	2.5	08/02/10	08/02/10 19:57	1034
Zinc	26	ug/L	10		1	10	08/02/10	08/02/10 19:57	1034

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:15	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 05:15	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 05:15	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 15:32	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 15:07	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 15:07	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 15:07	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 15:07	1029

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CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 18:51	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 18:51	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 18:51	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 18:51	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 18:51	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 18:51	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	07/31/10 18:51	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	07/31/10 18:51	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	07/31/10 18:51	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	07/31/10 18:51	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	07/31/10 18:51	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	07/31/10 18:51	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 18:51	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	07/31/10 18:51	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 23:26	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014

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CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 23:26	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 23:26	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/31/10 23:26	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 23:26	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW1B-GW **Date/Time Sampled: 07/28/2010 13:45** **PSS Sample ID: 10072813-005**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:26	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW06-GW **Date/Time Sampled: 07/28/2010 08:55** **PSS Sample ID: 10072813-007**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Arsenic	3.1	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Barium	280	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:13	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Chromium	8.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Cobalt	200	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Copper	11	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Lead	3.7	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:13	1034
Nickel	33	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Selenium	1.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:03	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:03	1034
Vanadium	6.7	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:03	1034
Zinc	68	ug/L	10		1	10	08/02/10	08/02/10 20:03	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW06-GW **Date/Time Sampled: 07/28/2010 08:55** **PSS Sample ID: 10072813-007**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 05:43	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 05:43	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 05:43	1029

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Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:01	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 15:40	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 15:40	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 15:40	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 15:40	1029

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EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
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 Project ID: 6219608

Sample ID: Gude-MW06-GW **Date/Time Sampled: 07/28/2010 08:55** **PSS Sample ID: 10072813-007**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Vinyl Chloride	7	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Chloroethane	1	ug/L	1	J	1	0.5	07/31/10	08/01/10 02:51	1014
Acetone	ND	ug/L	5		1	5	07/31/10	08/01/10 02:51	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	08/01/10 02:51	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
trans-1,2-Dichloroethene	3	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,1-Dichloroethane	7	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	08/01/10 02:51	1014
cis-1,2-Dichloroethene	41	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,2-Dichloroethane	2	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Benzene	1	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	08/01/10 02:51	1014
Trichloroethene	2	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	08/01/10 02:51	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	08/01/10 02:51	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW06-GW **Date/Time Sampled: 07/28/2010 08:55** **PSS Sample ID: 10072813-007**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	08/01/10 02:51	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	08/01/10 02:51	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	08/01/10 02:51	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	08/01/10 02:51	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Chlorobenzene	7	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	08/01/10 02:51	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,4-Dichlorobenzene	10	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,2-Dichlorobenzene	1	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	08/01/10 02:51	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 02:51	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	08/01/10 02:51	1014
Ethyl ether (TIC)	11	ug/L	5		1	5	07/31/10	08/01/10 02:51	1014

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CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW06-GW **Date/Time Sampled: 07/28/2010 08:55** **PSS Sample ID: 10072813-007**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 02:08	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014

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Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 02:08	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 02:08	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/31/10 02:08	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 02:08	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW06-GW **Date/Time Sampled: 07/28/2010 08:55** **PSS Sample ID: 10072813-007**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 02:08	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Arsenic	0.9	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:09	1034
Barium	170	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:19	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Chromium	0.7	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:09	1034
Cobalt	11	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Copper	2.6	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:19	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:19	1034
Nickel	32	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:09	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:09	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:09	1034
Zinc	16	ug/L	10		1	10	08/02/10	08/02/10 20:09	1034

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:11	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 06:11	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 06:11	1029

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No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:30	1029

Chlorinated Herbicides Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 17:09	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 17:09	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 17:09	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 17:09	1029

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No: 10072813

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August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Vinyl Chloride	4	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Acetone	ND	ug/L	5		1	5	07/31/10	08/01/10 03:20	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	08/01/10 03:20	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,1-Dichloroethane	2	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	08/01/10 03:20	1014
cis-1,2-Dichloroethene	13	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Chloroform	0.8	ug/L	1	J	1	0.5	07/31/10	08/01/10 03:20	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	08/01/10 03:20	1014
Trichloroethene	0.5	ug/L	1	J	1	0.5	07/31/10	08/01/10 03:20	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	08/01/10 03:20	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	08/01/10 03:20	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	08/01/10 03:20	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	08/01/10 03:20	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	08/01/10 03:20	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	08/01/10 03:20	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Chlorobenzene	2	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	08/01/10 03:20	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,4-Dichlorobenzene	2	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	08/01/10 03:20	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:20	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	08/01/10 03:20	1014

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CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 23:42	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 23:42	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 23:42	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/31/10 23:42	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 23:42	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB01-GW **Date/Time Sampled: 07/28/2010 10:25** **PSS Sample ID: 10072813-009**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 23:42	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Arsenic	2.4	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Barium	150	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:25	1034
Cadmium	1.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Chromium	10	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Cobalt	8.1	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Copper	29	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Lead	9.6	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:25	1034
Nickel	13	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:15	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:15	1034
Vanadium	15	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:15	1034
Zinc	43	ug/L	10		1	10	08/02/10	08/02/10 20:15	1034

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 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 06:39	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 06:39	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 06:39	1029

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 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 16:59	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 17:42	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 17:42	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 17:42	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 17:42	1029

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Acetone	ND	ug/L	5		1	5	07/31/10	08/01/10 04:16	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	08/01/10 04:16	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	08/01/10 04:16	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	08/01/10 04:16	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	08/01/10 04:16	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	08/01/10 04:16	1014

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	08/01/10 04:16	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	08/01/10 04:16	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	08/01/10 04:16	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	08/01/10 04:16	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	08/01/10 04:16	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	08/01/10 04:16	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 04:16	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	08/01/10 04:16	1014

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CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 01:19	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 01:19	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 01:19	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/31/10 01:19	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 01:19	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02-GW **Date/Time Sampled: 07/28/2010 12:20** **PSS Sample ID: 10072813-011**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 01:19	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Arsenic	1.0	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:21	1034
Barium	350	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:31	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Chromium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Cobalt	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Copper	1.0	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:31	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:31	1034
Nickel	9.9	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:21	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:21	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:21	1034
Zinc	12	ug/L	10		1	10	08/02/10	08/02/10 20:21	1034

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 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 07:06	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 07:06	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 07:06	1029

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CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 17:28	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 18:14	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 18:14	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 18:14	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 18:14	1029

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No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
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Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Acetone	ND	ug/L	5		1	5	07/31/10	08/01/10 03:47	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	08/01/10 03:47	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	08/01/10 03:47	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	08/01/10 03:47	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	08/01/10 03:47	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	08/01/10 03:47	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Toluene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
2-Hexanone	ND	ug/L	5		1	5	07/31/10	08/01/10 03:47	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Acrolein	ND	ug/L	20		1	10	07/31/10	08/01/10 03:47	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Bromoform	ND	ug/L	5		1	2.5	07/31/10	08/01/10 03:47	1014
trans-1,4-Dichloro-2-butene	ND	ug/L	5		1	2.5	07/31/10	08/01/10 03:47	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Chlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Ethylbenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
m,p-Xylenes	ND	ug/L	2		1	1	07/31/10	08/01/10 03:47	1014
Styrene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
o-Xylene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	5	07/31/10	08/01/10 03:47	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Naphthalene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	07/31/10	08/01/10 03:47	1014
Iodomethane (Methyl Iodide)	ND	ug/L	20		1	10	07/31/10	08/01/10 03:47	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Butyl benzyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4-Chloro-3-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 00:30	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4-Chlorophenyl Phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Dibenz(a,h)Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 00:30	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2-Methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/31/10 00:30	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
N-Nitrosodi-n-propyl amine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/31/10 00:30	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/31/10 00:30	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB02A-GW **Date/Time Sampled: 07/28/2010 14:30** **PSS Sample ID: 10072813-013**
Matrix: GROUND WATER **Date/Time Received: 07/28/2010 16:25**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/31/10 00:30	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/02/10	08/02/10 15:45	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072813

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-17 Date/Time Sampled: 07/28/2010 14:30 PSS Sample ID: 10072813-014
Matrix: WATER Date/Time Received: 07/28/2010 16:25

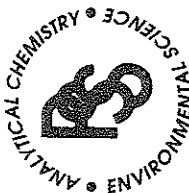
Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Chloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Bromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Chloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Acetone	ND	ug/L	5		1	5	07/31/10	07/31/10 15:05	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	07/31/10	07/31/10 15:05	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Methylene Chloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Vinyl Acetate	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
2-Butanone	ND	ug/L	10		1	5	07/31/10	07/31/10 15:05	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Bromochloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Chloroform	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Carbon Tetrachloride	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Benzene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Dibromomethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Acrylonitrile	ND	ug/L	10		1	5	07/31/10	07/31/10 15:05	1014
Trichloroethene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
Carbon Disulfide	ND	ug/L	1		1	1	07/31/10	07/31/10 15:05	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	07/31/10	07/31/10 15:05	1014
4-Methyl-2-Pentanone	ND	ug/L	5		1	2.5	07/31/10	07/31/10 15:05	1014



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering, OFFICE LOC: Sparks, MD
 PROJECT MGR: Peter Lelas, PHONE NO.: (410) 771-9950
 EMAIL: plek@phaseonline.com, FAX NO.: (410) 771-9254
 PROJECT NAME: Guide Landfill, PROJECT NO.: 6219608
 SITE LOCATION: Rockville, MD, P.O. NO.:
 SAMPLERS: Joe Sawicki, Bryan Kateley

PSS Work Order #: 10072813 PAGE 1 OF 2

Matrix Codes:
 SW=Surface Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe

No.	CONTAINERS	SAMPLE TYPE	C=COMP	G=GRAB	Preservatives Used										REMARKS	
					VOL 8260	Metals 6020	Herbicide 8151	Chlorine Residues 8081	Organophosphorus pesticides 8141	PCBs 8082	Lyxide 9010	Sulfide 9030				
1	11	GW			X	X	X	X	X	X	X	X	X	X		
2	2				X	X	X	X	X	X	X	X	X	X		
3	11				X	X	X	X	X	X	X	X	X	X		
4	2				X	X	X	X	X	X	X	X	X	X		
5	11				X	X	X	X	X	X	X	X	X	X		
6	2				X	X	X	X	X	X	X	X	X	X		
7	11				X	X	X	X	X	X	X	X	X	X		
8	2				X	X	X	X	X	X	X	X	X	X		
9	11				X	X	X	X	X	X	X	X	X	X		
10	2				X	X	X	X	X	X	X	X	X	X		

Requested Turnaround Time: 5-Day 3-Day 2-Day Other

of Coolers: 7

Custody Seal: ABS

Ice Present: Pres Temp: 10°C

Shipping Carrier: CUEENT

Data Deliverables Required: EDD

Special Instructions:

Relinquished By: (1)	Date	Time	Received By:	Date	Time
Joe Sawicki	7/28/10	1025	W. Lewis		
Relinquished By: (2)	Date	Time	Received By:	Date	Time
Relinquished By: (3)	Date	Time	Received By:	Date	Time
Relinquished By: (4)	Date	Time	Received By:	Date	Time

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC. Sparks, MD
 PROJECT MGR: Peter Lekas PHONE NO.: (410) 771-4950
 EMAIL: plekas@east.com FAX NO.: (410) 771-4204
 PROJECT NAME: Gude Landfill PROJECT NO.: 219608
 SITE LOCATION: Rockville, MD P.O. NO.:
 SAMPLERS: Joe Sawicki / Bryan Kately

PSS Work Order #: 10072813 PAGE 2 OF 2

Matrix Codes:
 SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe

No.	CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used	Analysis/Method Required										REMARKS		
				VOC 8260	Metals 8270	Hex. 851	Chlorinated pesticides 851	Organophosphorus pesticides 851	PCBs 8082	Cyanide 9010	Sulfide 9030	Other	Other		Other	Other
11	G	GW		X	X	X	X	X	X	X	X	X	X	X	X	
12	↓	↓		X	X	X	X	X	X	X	X	X	X	X	X	
13	↓	↓		X	X	X	X	X	X	X	X	X	X	X	X	
14	↓	↓		X	X	X	X	X	X	X	X	X	X	X	X	

2

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
11	Gude-0802-GW	7/23/10	1220	GW
12	TB-16	↓	1220	↓
13	Gude-0802A-GW	↓	1430	↓
14	TB+17	↓	1430	↓

3

Relinquished By: (1)	Date	Time	Received By:	Date	Time
<i>[Signature]</i>	7/23/10	11025	<i>[Signature]</i>		

4

Relinquished By: (2)	Date	Time	Received By:	Date	Time

5

Relinquished By: (3)	Date	Time	Received By:	Date	Time

Relinquished By: (4)	Date	Time	Received By:	Date	Time

Requested Turnaround Time: 5-Day 3-Day 2-Day
 Next Day Emergency Other

Data Deliverables Required: *EDD*

of Coolers: 7
 Custody Seal: ABS
 Ice Present: pres Temp: 10.0
 Shipping Carrier: CIENT

Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10072813 **Received By** Rachel Davis
Client Name EA Engineering **Date Received** 07/28/2010 04:25:00 PM
Project Name Gude Landfill **Delivered By** Client
Project Number 6219608 **Tracking No** Not Applicable
Disposal Date: 09/26/2010 **Logged In By** Rachel Davis

Shipping Container(s)

No. of Coolers	7	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	10
Seal Condition	Not Applicable	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No **Sampler Name:** Joseph Sawicki
Chain of Custody (COC) Yes or No **MD DW Cert. No :** N/A

Sample Container

Appropriate for Specified Analysis? Yes No **Custody Seal(s)** Absent
Intact? **Custody Seal(s) Intact?** Not Applicable
Labeled and Labels Legible **Seal(s) Signed / Dated** Not Applicable
Total No. of Samples Received 14 **Total No. of Containers Received** 91

Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfide (pH>9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

Samples Inspected/Checklist Completed By: [Signature]

Date: 7/29/10

PM Review and Approval: [Signature]

Date: 7/29/10

ANALYTICAL REPORT

PROJECT NO. 6219608/10072813

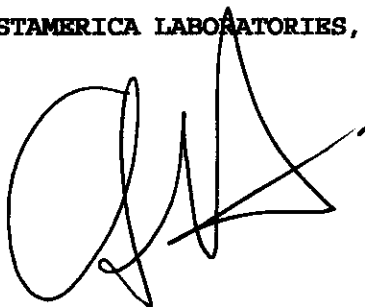
Phase Sep Science East Station

Lot #: COG300536

Betsy Orr

Phase Separation Sciences
6630 Baltimore National Pike
Route 40 West
Baltimore, MD 21228

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch
Project Manager

August 13, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW HW	X
US Dept of Agriculture Arkansas	(#P330-10-00139) (#88-0690)	Foreign Soil Import Permit WW HW	X X X
California – NELAC	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – NELAC	(#E871008)	WW HW	X X
Illinois – NELAC	(#002319)	WW HW	X X
Kansas – NELAC	(#E-10350)	WW HW	X X
Louisiana – NELAC	(#04041)	WW HW	X X
New Hampshire – NELAC	(#203010)	WW –	X –
New Jersey – NELAC	(PA-005)	WW HW	X X
New York – NELAC	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Pennsylvania - NELAC	(#02-00416)	WW HW	X X
South Carolina	(#89014002)	WW HW	X X
Utah – NELAC	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pttsburgh_Updated 051910.doc

CASE NARRATIVE

Phase Separation Sciences

Lot # C0G300536

Sample Receiving:

TestAmerica Pittsburgh received samples on July 30, 2010. The cooler was received within the proper temperature range.

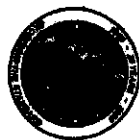
If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

OPP's:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.



Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

W.O. No.: **10072813**
P.O. No.:
Project Name: **Gude Landfill**
Project Number: **6219608**

Samples Transferred To:
Test America
5710 Executive Drive, Suite 106
Catonsville, MD 21228

For Questions or Issues please contact: John Slowikowski

Report Due On: ~~08/28/2008~~ **TEST AMERICA STANDARD**
Contact: Ken Ives
Phone: **410-869-0085**

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10072813-001	Gude-OB12-GW	07/28/10	09:30	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-001	Gude-OB12-GW	07/28/10	09:30	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072813-003	Gude-OB015-GW	07/28/10	11:30	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-003	Gude-OB015-GW	07/28/10	11:30	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072813-005	Gude-MW1B-GW	07/28/10	13:45	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-005	Gude-MW1B-GW	07/28/10	13:45	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072813-007	Gude-MW06-GW	07/28/10	08:55	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-007	Gude-MW06-GW	07/28/10	08:55	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072813-009	Gude-OB01-GW	07/28/10	10:25	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-009	Gude-OB01-GW	07/28/10	10:25	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072813-011	Gude-OB02-GW	07/28/10	12:20	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-011	Gude-OB02-GW	07/28/10	12:20	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072813-013	Gude-OB02A-GW	07/28/10	14:30	Water	Organophosphorus Compounds *	SW8141A	32 OZ N/M G.A.	COOL
10072813-013	Gude-OB02A-GW	07/28/10	14:30	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: **QC SUMM**

Send Report Attn: **BETSY OPR**

Perform Q.C. on Sample: _____

Airbill No.: _____ Carrier: **TEST AMERICA COURIER**

Condition Upon Receipt: _____
Comments: *** SEE ATTACHED ANALYTE LIST**

Samples Relinquished By: **[Signature]** Date: **7/29/10** Time: **10:31**

Samples Relinquished By: **[Signature]** Date: **7-29-2010** Time: **13:50**

Samples Relinquished By: _____ Date: _____ Time: _____

Samples Received By: **[Signature]**

Samples Received By: _____

Samples Received By: _____

Sub-Contractor: _____

Method: _____

Matrix: _____

Analyte Name: _____

7/30/10 1020

METHODS SUMMARY

COG300536

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

COG300536

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L4XCF	001	GUDE-OB12-GW	07/28/10	09:30
L4XCK	002	GUDE-OB015-GW	07/28/10	11:30
L4XCM	003	GUDE-MW1B-GW	07/28/10	13:45
L4XCN	004	GUDE-MW06-GW	07/28/10	08:55
L4XCQ	005	GUDE-0B01-GW	07/28/10	10:25
L4XCR	006	GUDE-0B02-GW	07/28/10	12:20
L4XCW	007	GUDE-0B02A-GW	07/28/10	14:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUDE-OB12-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-001 Work Order #...: L4XCF1AC Matrix.....: WATER
Date Sampled...: 07/28/10 Date Received..: 07/30/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/03/10
Prep Batch #...: 0214374 Analysis Time..: 22:41
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	90	(45 - 145)
Tributyl phosphate	95	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-OB015-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-002 **Work Order #...**: L4XCK1AC **Matrix.....**: WATER
Date Sampled...: 07/28/10 **Date Received..**: 07/30/10 **MS Run #.....**:
Prep Date.....: 08/02/10 **Analysis Date..**: 08/03/10
Prep Batch #...: 0214374 **Analysis Time..**: 23:07
Dilution Factor: 1

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	1.0	ug/L
Dimethoate	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Famphur	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Ethyl parathion	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	97	(45 - 145)	
Tributyl phosphate	99	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW1B-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-003 **Work Order #...**: L4XCM1AC **Matrix.....**: WATER
Date Sampled...: 07/28/10 **Date Received..**: 07/30/10 **MS Run #.....**:
Prep Date.....: 08/02/10 **Analysis Date..**: 08/03/10
Prep Batch #...: 0214374 **Analysis Time..**: 23:34
Dilution Factor: 0.98

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	94	(45 - 145)	
Tributyl phosphate	96	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW06-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-004 Work Order #...: L4XCN1AC Matrix.....: WATER
Date Sampled...: 07/28/10 Date Received..: 07/30/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
Prep Batch #...: 0214374 Analysis Time..: 00:01
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	96	(45 - 145)
Tributyl phosphate	100	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-0B01-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-005 Work Order #...: L4XCQ1AC Matrix.....: WATER
 Date Sampled...: 07/28/10 Date Received..: 07/30/10 MS Run #.....:
 Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
 Prep Batch #...: 0214374 Analysis Time..: 01:48
 Dilution Factor: 0.94
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.94	ug/L
Dimethoate	ND	0.94	ug/L
Disulfoton	ND	0.94	ug/L
Famphur	ND	0.94	ug/L
Methyl parathion	ND	0.94	ug/L
Ethyl parathion	ND	0.94	ug/L
Phorate	ND	0.94	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	95	(45 - 145)	
Tributyl phosphate	96	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-0B02-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-006 **Work Order #...**: L4XCR1AC **Matrix.....**: WATER
Date Sampled...: 07/28/10 **Date Received..**: 07/30/10 **MS Run #.....**:
Prep Date.....: 08/02/10 **Analysis Date..**: 08/04/10
Prep Batch #...: 0214374 **Analysis Time..**: 02:15
Dilution Factor: 0.95

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	92	(45 - 145)	
Tributyl phosphate	92	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-0B02A-GW

GC Semivolatiles

Lot-Sample #...: C0G300536-007 Work Order #...: L4XCW1AC Matrix.....: WATER
Date Sampled...: 07/28/10 Date Received..: 07/30/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
Prep Batch #...: 0214374 Analysis Time..: 02:41
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	92	(45 - 145)
Tributyl phosphate	94	(49 - 122)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: COG300536
MB Lot-Sample #: COH020000-374
Analysis Date...: 08/04/10
Dilution Factor: 1

Work Order #...: L41D71AE
Prep Date.....: 08/02/10
Prep Batch #...: 0214374

Matrix.....: WATER
Analysis Time...: 22:41

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Thionazin	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Ethyl parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Triphenyl phosphate	97	(45 - 145)		
Tributyl phosphate	98	(49 - 122)		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0G300536 Work Order #...: L41D71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C0H020000-374 L41D71AD-LCSD
 Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
 Prep Batch #...: 0214374 Analysis Time..: 05:22
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Thionazin	96	(44 - 128)			SW846 8141A
	98	(44 - 128)	1.6	(0-21)	SW846 8141A
Phorate	104	(41 - 135)			SW846 8141A
	107	(41 - 135)	2.9	(0-24)	SW846 8141A
Disulfoton	97	(45 - 124)			SW846 8141A
	98	(45 - 124)	1.2	(0-30)	SW846 8141A
Methyl parathion	95	(41 - 148)			SW846 8141A
	96	(41 - 148)	1.2	(0-30)	SW846 8141A
Ethyl parathion	105	(56 - 125)			SW846 8141A
	106	(56 - 125)	1.4	(0-21)	SW846 8141A
Famphur	100	(52 - 131)			SW846 8141A
	101	(52 - 131)	0.19	(0-24)	SW846 8141A
Dimethoate	122	(26 - 136)			SW846 8141A
	124	(26 - 136)	1.3	(0-22)	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Triphenyl phosphate	81	(45 - 145)
	94	(45 - 145)
Tributyl phosphate	99	(49 - 122)
	86	(49 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Phase Separation Sciences

Client Sample ID: GUDE-OB12-GW

General Chemistry

Lot-Sample #...: COG300536-001 Work Order #...: L4XCF Matrix.....: WATER
Date Sampled...: 07/28/10 Date Received..: 07/30/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB015-GW

General Chemistry

Lot-Sample #...: COG300536-002

Work Order #...: L4XCK

Matrix.....: WATER

Date Sampled...: 07/28/10

Date Received..: 07/30/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW1B-GW

General Chemistry

Lot-Sample #...: COG300536-003
Date Sampled...: 07/28/10

Work Order #...: L4XCM
Date Received...: 07/30/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW06-GW

General Chemistry

Lot-Sample #...: COG300536-004

Work Order #...: L4XCN

Matrix.....: WATER

Date Sampled...: 07/28/10

Date Received..: 07/30/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-0B01-GW

General Chemistry

Lot-Sample #...: COG300536-005

Work Order #...: L4XCQ

Matrix.....: WATER

Date Sampled...: 07/28/10

Date Received..: 07/30/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-0B02-GW

General Chemistry

Lot-Sample #...: COG300536-006
Date Sampled...: 07/28/10

Work Order #...: L4XCR
Date Received...: 07/30/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-0B02A-GW

General Chemistry

Lot-Sample #...: COG300536-007

Work Order #...: L4XCW

Matrix.....: WATER

Date Sampled...: 07/28/10

Date Received..: 07/30/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1		Analysis Time.: 14:00	MS Run #.....:	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: COG300536

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L40M41AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	C0H020000-083 08/02/10	0214083
		Dilution Factor: 1				
		Analysis Time..: 14:00				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: COG300536

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide		WO#:L40M41AC-LCS/L40M41AD-LCSD			LCS Lot-Sample#: C0H020000-083		
	98	(85 - 115)			SW846 9030B/9034	08/02/10	0214083
	98	(85 - 115)	0.42	(0-20)	SW846 9030B/9034	08/02/10	0214083
		Dilution Factor: 1			Analysis Time..: 14:00		

NOTE(S):

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

Analytical Report for

EA Engineering

Certificate of Analysis No.: 10072911

Project Manager: Pete Lekas

Project Name : Gude Landfill

Project Location: Rockville, MD

Project ID : 6219608



August 10, 2010

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



August 10, 2010

Pete Lekas
EA Engineering
15 Loveton Circle
Sparks, MD 21152

Reference: PSS Work Order No: **10072911**
Project Name : Gude Landfill
Project Location: Rockville, MD
Project ID.: 6219608

Dear Pete Lekas :

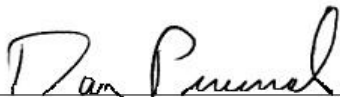
The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10072911**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 27, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.



Dan Prucnal
Laboratory Manager



Case Narrative Summary

Client Name: EA Engineering

Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10072911

The following samples were received under chain of custody by Phase Separation Science (PSS) on 07/29/2010 at 03:30 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10072911-001	Gude-MW3A-GW	GROUND WATER	07/29/2010 10:35
10072911-002	TB-25	WATER	07/29/2010 10:35
10072911-003	Gude-MW3B-GW	GROUND WATER	07/29/2010 11:20
10072911-004	TB-26	WATER	07/29/2010 11:20
10072911-005	Gude-OB10-GW	GROUND WATER	07/29/2010 13:15
10072911-006	TB-27	WATER	07/29/2010 13:15
10072911-007	Gude-OB04-GW	GROUND WATER	07/29/2010 13:40
10072911-008	TB-21	WATER	07/29/2010 13:40
10072911-009	Gude-OB04A-GW	GROUND WATER	07/29/2010 09:45
10072911-010	TB-20	WATER	07/29/2010 09:45

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Mercury CCV exceedance at 69%, 75%, and 80%. Beryllium CCV exceedance of 88%; limits are 90-110%.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Arsenic	2.6	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Barium	61	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Beryllium	0.6	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:37	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Chromium	47	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Cobalt	16	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Copper	48	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Lead	13	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:37	1034
Nickel	39	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:27	1034
Thallium	0.5	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:27	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:27	1034
Vanadium	35	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:27	1034
Zinc	90	ug/L	10		1	10	08/02/10	08/02/10 20:27	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 00:33	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 00:33	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 00:33	1029

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CERTIFICATE OF ANALYSIS

No: 10072911
EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 11:38	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 11:11	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 11:11	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 11:11	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 11:11	1029

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Chloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Bromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Chloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Acetone	ND	ug/L	5		1	5	08/02/10	08/03/10 03:24	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/02/10	08/03/10 03:24	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/02/10	08/03/10 03:24	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Chloroform	1	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Benzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Acrylonitrile	ND	ug/L	10		1	5	08/02/10	08/03/10 03:24	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/02/10	08/03/10 03:24	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/02/10	08/03/10 03:24	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/03/10 03:24	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/03/10 03:24	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/03/10 03:24	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/03/10 03:24	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/03/10 03:24	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/03/10 03:24	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:24	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/03/10 03:24	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 21:15	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 21:15	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 21:15	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/30/10 21:15	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 21:15	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3A-GW **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-001**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:15	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/03/10	08/03/10 15:17	1022

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-25 **Date/Time Sampled: 07/29/2010 10:35** **PSS Sample ID: 10072911-002**
Matrix: WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/03/10 00:08	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/03/10 00:08	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/03/10 00:08	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/03/10 00:08	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/03/10 00:08	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/03/10 00:08	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:08	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/03/10 00:08	1014

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CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	0.6	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:33	1034
Arsenic	9.1	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Barium	210	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Beryllium	2.0	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:43	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Chromium	74	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Cobalt	27	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Copper	86	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Lead	49	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:43	1034
Nickel	64	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Selenium	1.6	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:33	1034
Thallium	0.8	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:33	1034
Tin	5.6	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:33	1034
Vanadium	56	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:33	1034
Zinc	190	ug/L	10		1	10	08/02/10	08/02/10 20:33	1034

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
beta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
delta-BHC	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Heptachlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Aldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Dieldrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Endrin	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	07/30/10	08/06/10 01:03	1029
Toxaphene	ND	ug/L	2		1	1	07/30/10	08/06/10 01:03	1029
Chlordane	ND	ug/L	2		1	1	07/30/10	08/06/10 01:03	1029

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 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:07	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 11:43	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 11:43	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 11:43	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 11:43	1029

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No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Chloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Bromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Chloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Acetone	ND	ug/L	5		1	5	08/02/10	08/03/10 03:54	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/02/10	08/03/10 03:54	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/02/10	08/03/10 03:54	1014
cis-1,2-Dichloroethene	0.9	ug/L	1	J	1	0.5	08/02/10	08/03/10 03:54	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Chloroform	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Benzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Acrylonitrile	ND	ug/L	10		1	5	08/02/10	08/03/10 03:54	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/02/10	08/03/10 03:54	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/02/10	08/03/10 03:54	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/03/10 03:54	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/03/10 03:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/03/10 03:54	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/03/10 03:54	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/03/10 03:54	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/03/10 03:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 03:54	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/03/10 03:54	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 21:43	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 21:43	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 21:43	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/30/10 21:43	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 21:43	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW3B-GW **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-003**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
Butylated Hydroxyanisole (TIC)	4	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014
unknown (TIC)	4	ug/L	5		1	2.5	07/30/10	07/30/10 21:43	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/03/10	08/03/10 15:17	1022

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-26 **Date/Time Sampled: 07/29/2010 11:20** **PSS Sample ID: 10072911-004**
Matrix: WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Chloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Bromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Chloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Acetone	ND	ug/L	5		1	5	08/02/10	08/03/10 00:59	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/02/10	08/03/10 00:59	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/02/10	08/03/10 00:59	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Chloroform	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Benzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Acrylonitrile	ND	ug/L	10		1	5	08/02/10	08/03/10 00:59	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/02/10	08/03/10 00:59	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 00:59	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/02/10	08/03/10 00:59	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Arsenic	1.5	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Barium	53	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:49	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Chromium	0.8	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 20:39	1034
Cobalt	6.7	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Copper	1.6	ug/L	1.0		1	0.5	08/02/10	08/03/10 14:49	1034
Lead	1.4	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Mercury	ND	ug/L	0.20		1	0.1	08/02/10	08/03/10 14:49	1034
Nickel	7.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 20:39	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:39	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 20:39	1034
Zinc	14	ug/L	10		1	10	08/02/10	08/02/10 20:39	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Endrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:31	1029
Toxaphene	ND	ug/L	10		5	5	07/30/10	08/06/10 01:31	1029
Chlordane	ND	ug/L	10		5	5	07/30/10	08/06/10 01:31	1029

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 EA Engineering, Sparks, MD
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Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 12:37	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 12:16	1029
2,4,5-TP (Silvex)	0.1	ug/L	0.2	J	1	0.1	07/31/10	08/03/10 12:16	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 12:16	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 12:16	1029

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No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
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Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	4	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Chloromethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Vinyl Chloride	7	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Bromomethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Chloroethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Acetone	ND	ug/L	5		1	5	08/02/10	08/02/10 14:26	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/02/10	08/02/10 14:26	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
trans-1,2-Dichloroethene	4	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,1-Dichloroethane	6	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/02/10	08/02/10 14:26	1014
cis-1,2-Dichloroethene	29	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Chloroform	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Benzene	2	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Acrylonitrile	ND	ug/L	10		1	5	08/02/10	08/02/10 14:26	1014
Trichloroethene	16	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/02/10	08/02/10 14:26	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/02/10	08/02/10 14:26	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/02/10 14:26	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/02/10 14:26	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/02/10 14:26	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 14:26	1014
Tetrachloroethene	4	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Chlorobenzene	1	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/02/10 14:26	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,4-Dichlorobenzene	6	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/02/10 14:26	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/02/10 14:26	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/02/10 14:26	1014

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:07	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
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Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:07	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:07	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/30/10 22:07	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:07	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB10-GW **Date/Time Sampled: 07/29/2010 13:15** **PSS Sample ID: 10072911-005**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:07	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/03/10	08/03/10 15:17	1022

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CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Arsenic	1.4	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Barium	250	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 15:13	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Chromium	0.5	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 21:03	1034
Cobalt	0.7	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 21:03	1034
Copper	40	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Mercury	0.3	ug/L	0.20		1	0.1	08/02/10	08/03/10 15:13	1034
Nickel	11	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Silver	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:03	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 21:03	1034
Vanadium	2.6	ug/L	5.0	J	1	2.5	08/02/10	08/02/10 21:03	1034
Zinc	16	ug/L	10		1	10	08/02/10	08/02/10 21:03	1034

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Endrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 01:59	1029
Toxaphene	ND	ug/L	10		5	5	07/30/10	08/06/10 01:59	1029
Chlordane	ND	ug/L	10		5	5	07/30/10	08/06/10 01:59	1029

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CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:06	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 12:48	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 12:48	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 12:48	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 12:48	1029

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Chloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Vinyl Chloride	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Bromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Chloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Acetone	ND	ug/L	5		1	5	08/02/10	08/03/10 04:24	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/02/10	08/03/10 04:24	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Methylene chloride	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/02/10	08/03/10 04:24	1014
cis-1,2-Dichloroethene	20	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Chloroform	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Benzene	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Acrylonitrile	ND	ug/L	10		1	5	08/02/10	08/03/10 04:24	1014
Trichloroethene	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/02/10	08/03/10 04:24	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/02/10	08/03/10 04:24	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/03/10 04:24	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/03/10 04:24	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/03/10 04:24	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/03/10 04:24	1014
Tetrachloroethene	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Chlorobenzene	1	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/03/10 04:24	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,4-Dichlorobenzene	6	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/03/10 04:24	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:24	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/03/10 04:24	1014

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:23	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:23	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:23	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/30/10 22:23	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:23	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04-GW **Date/Time Sampled: 07/29/2010 13:40** **PSS Sample ID: 10072911-007**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:23	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/03/10	08/03/10 15:17	1022

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CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Arsenic	1.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Barium	51	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/02/10	08/03/10 15:25	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Chromium	1.2	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Cobalt	1.1	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Copper	26	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Lead	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Mercury	0.2	ug/L	0.20		1	0.1	08/02/10	08/03/10 15:25	1034
Nickel	18	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Selenium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Silver	0.9	ug/L	1.0	J	1	0.5	08/02/10	08/02/10 21:09	1034
Thallium	ND	ug/L	1.0		1	0.5	08/02/10	08/02/10 21:09	1034
Tin	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 21:09	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/02/10	08/02/10 21:09	1034
Zinc	28	ug/L	10		1	10	08/02/10	08/02/10 21:09	1034

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
beta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
delta-BHC	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Heptachlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Aldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Dieldrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Endrin	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	07/30/10	08/06/10 07:35	1029
Toxaphene	ND	ug/L	10		5	5	07/30/10	08/06/10 07:35	1029
Chlordane	ND	ug/L	10		5	5	07/30/10	08/06/10 07:35	1029

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CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029
PCB-1221	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029
PCB-1232	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029
PCB-1242	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029
PCB-1248	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029
PCB-1254	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029
PCB-1260	ND	ug/L	1.0		1	0.5	07/30/10	08/02/10 13:35	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	07/31/10	08/03/10 13:21	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 13:21	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	07/31/10	08/03/10 13:21	1029
Dinoseb	ND	ug/L	1		1	0.5	07/31/10	08/03/10 13:21	1029

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No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
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Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Chloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Vinyl Chloride	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Bromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Chloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Acetone	ND	ug/L	5		1	5	08/02/10	08/03/10 04:54	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/02/10	08/03/10 04:54	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Methylene chloride	4	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/02/10	08/03/10 04:54	1014
cis-1,2-Dichloroethene	25	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Chloroform	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Benzene	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Acrylonitrile	ND	ug/L	10		1	5	08/02/10	08/03/10 04:54	1014
Trichloroethene	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/02/10	08/03/10 04:54	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/02/10	08/03/10 04:54	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/03/10 04:54	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/03/10 04:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/03/10 04:54	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/03/10 04:54	1014
Tetrachloroethene	2	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Chlorobenzene	1	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/03/10 04:54	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,4-Dichlorobenzene	7	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/03/10 04:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 04:54	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/03/10 04:54	1014

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CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Acenaphthylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Acetophenone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4-Chloroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:38	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Chrysene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Dibenzofuran	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014

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 800-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:38	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Fluoranthene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Fluorene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Hexachloroethane	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Isophorone	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4-Nitroaniline	ND	ug/L	10		1	5	07/30/10	07/30/10 22:38	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Nitrobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	07/30/10	07/30/10 22:38	1014
Pentachlorophenol	ND	ug/L	10		1	5	07/30/10	07/30/10 22:38	1014
Phenanthrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Phenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
Pyrene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911
 EA Engineering, Sparks, MD
 August 10, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB04A-GW **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-009**
Matrix: GROUND WATER **Date/Time Received: 07/29/2010 15:30**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014
unknown (TIC)	5	ug/L	5		1	2.5	07/30/10	07/30/10 22:38	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/03/10	08/03/10 15:17	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10072911

EA Engineering, Sparks, MD

August 10, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-20 **Date/Time Sampled: 07/29/2010 09:45** **PSS Sample ID: 10072911-010**
Matrix: WATER **Date/Time Received: 07/29/2010 15:30**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Toluene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/02/10	08/03/10 02:54	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Acrolein	ND	ug/L	20		1	10	08/02/10	08/03/10 02:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Bromoform	ND	ug/L	5		1	2.5	08/02/10	08/03/10 02:54	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/02/10	08/03/10 02:54	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/02/10	08/03/10 02:54	1014
Styrene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
o-Xylene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/02/10	08/03/10 02:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Naphthalene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/02/10	08/03/10 02:54	1014
Iodomethane	ND	ug/L	20		1	10	08/02/10	08/03/10 02:54	1014



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
 email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: **EA Engineering** OFFICE LOC: **Sparks, MD**
 PROJECT MGR: **Peter Lekas** PHONE NO.: **(410) 771-4950**
 EMAIL: **plekas@phase.com** FAX NO.: **(410) 771-1771**
 PROJECT NAME: **Guide Landfill** PROJECT NO.: **641608**
 SITE LOCATION: **Rockville, MD** P.O. NO.:
 SAMPLERS: **Joe Sawicki / Bryan Koteley**

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
1	Guide-MW3A-GW	7/29/10	1035	GW
2	TB-25		1035	
3	Guide-MW3B-GW		1120	
4	TB-26		1120	
5	Guide-OB10-GW		1315	
6	TB-27		1315	
7	Guide-OB04-GW		1340	
8	TB-21		1340	
9	Guide-OB04A-GW		0945	
10	TB-20		0945	

PSS Work Order # **10072911** PAGE **1** OF **1**

Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WM=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe	10072911	PAGE 1 OF 1
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No.	C O N T A I N E R S	Preservatives Used										SAMPLE TYPE C = COMP G = GRAB	REMARKS
		HCl	HNO ₃	HNO ₂	Ascorbic acid	Asst. citric acid	Organic phosphoric acid	RCB 8082	(Sample #)	Substrate	Substrate		
1	11	X	X	X	X	X	X	X	X	X	X	G	LOC 860
2	2	X	X	X	X	X	X	X	X	X	X	G	LOC 860
3	11	X	X	X	X	X	X	X	X	X	X	G	LOC 860
4	2	X	X	X	X	X	X	X	X	X	X	G	LOC 860
5	11	X	X	X	X	X	X	X	X	X	X	G	LOC 860
6	2	X	X	X	X	X	X	X	X	X	X	G	LOC 860
7	11	X	X	X	X	X	X	X	X	X	X	G	LOC 860
8	2	X	X	X	X	X	X	X	X	X	X	G	LOC 860
9	11	X	X	X	X	X	X	X	X	X	X	G	LOC 860
10	2	X	X	X	X	X	X	X	X	X	X	G	LOC 860

Requested Turnaround Time: 5-Day 3-Day 2-Day Other

Data Deliverables Required: **ERP**

of Coolers: **5**
 Custody Seal: **ABS**
 Ice Present: **YES** Temp: **6°C**
 Shipping Carrier: **UENT**

4 Received By: *[Signature]*
 Received By: **ERP**

Relinquished By: (1) *[Signature]*
 Relinquished By: (2) *[Signature]*

Relinquished By: (3)
 Relinquished By: (4)

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number	10072911	Received By	Rachel Davis
Client Name	EA Engineering	Date Received	07/29/2010 03:30:00 PM
Project Name	Gude Landfill	Delivered By	Client
Project Number	6219608	Tracking No	Not Applicable
Disposal Date:	09/27/2010	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	5	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	6
Seal Condition	Not Applicable	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No Sampler Name: Joseph Sawicki
 Chain of Custody (COC) Yes or No MD DW Cert. No.: N/A

Sample Container

Appropriate for Specified Analysis? Yes No Custody Seal(s) Absent
 Intact? Custody Seal(s) Intact? Not Applicable
 Labeled and Labels Legible Seal(s) Signed / Dated Not Applicable
 Total No. of Samples Received 10 Total No. of Containers Received 65

Preservation

		Yes	No	N/A
Metals	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides	(pH>12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfide	(pH>9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: [Signature]

Date: 7/29/10

PM Review and Approval: [Signature]

Date: 8/2/10

ANALYTICAL REPORT

PROJECT NO. 6219608/10072911

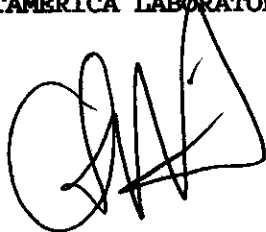
Phase Sep Science East Station

Lot #: COG310458

Betsy Orr

**Phase Separation Sciences
6630 Baltimore National Pike
Route 40 West
Baltimore, MD 21228**

TESTAMERICA LABORATORIES, INC.



**Christina M. Kovitch
Project Manager**

August 13, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW	X
US Dept of Agriculture	(#P330-10-00139)	HW	X
Arkansas	(#88-0690)	Foreign Soil Import Permit	X
California – NELAC	04224CA	WW	X
Connecticut	(#PH-0688)	HW	X
Florida – NELAC	(#E871008)	WW	X
Illinois – NELAC	(#002319)	HW	X
Kansas – NELAC	(#E-10350)	WW	X
Louisiana – NELAC	(#04041)	HW	X
New Hampshire – NELAC	(#203010)	WW	X
New Jersey – NELAC	(PA-005)	–	–
New York – NELAC	(#11182)	WW	X
North Carolina	(#434)	HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
South Carolina	(#89014002)	HW	X
Utah – NELAC	(STLP)	WW	X
West Virginia	(#142)	HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pttsburgh_Updated 051910.doc

CASE NARRATIVE

Phase Separation Sciences

Lot # C0G310458

Sample Receiving:

TestAmerica Pittsburgh received samples on July 31, 2010. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

OPP's:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.

Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Phone: (410) 747-8770
 Fax: (410) 788-8723

Samples Transferred To:
 Test America
 5710 Executive Drive, Suite 106
 Catonsville, MD 21228

W.O. No.: 10072911
 P.O. No.: _____
 Project Name: Gude Landfill
 Project Number: 6219608

For Questions or issues please contact: John Slowikowski

Contact: Ken Ives
 Phone: 410-869-0085
TEST AMERICA STANDARD

Report Due On: 08/01/10-05-00AM

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10072911-001	Gude-MW3A-GW	07/29/10	10:35	Water	Organophosphorus Compounds	SW8141A	32 OZ NM G.A.	COOL
10072911-001	Gude-MW3A-GW	07/29/10	10:35	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072911-003	Gude-MW3B-GW	07/29/10	11:20	Water	Organophosphorus Compounds	SW8141A	32 OZ NM G.A.	COOL
10072911-003	Gude-MW3B-GW	07/29/10	11:20	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072911-005	Gude-OB10-GW	07/29/10	13:15	Water	Organophosphorus Compounds	SW8141A	32 OZ NM G.A.	COOL
10072911-005	Gude-OB10-GW	07/29/10	13:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072911-007	Gude-OB04-GW	07/29/10	13:40	Water	Organophosphorus Compounds	SW8141A	32 OZ NM G.A.	COOL
10072911-007	Gude-OB04-GW	07/29/10	13:40	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10072911-009	Gude-OB04A-GW	07/29/10	09:45	Water	Organophosphorus Compounds	SW8141A	32 OZ NM G.A.	COOL
10072911-009	Gude-OB04A-GW	07/29/10	09:45	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: QC SUMM

Send Report Attn: BETSY ORR

Perform Q.C. on Sample: _____

Airbill No.: _____ Carrier: TEST AMERICA COURIER

Condition Upon Receipt: _____

Comments: _____

Samples Relinquished By: [Signature] Date: 7/30/10 Time: 1051 Samples Received By: [Signature]
 Samples Relinquished By: [Signature] Date: 7-30-2010 Time: 1435 Samples Received By: _____
 Samples Relinquished By: _____ Date: 7/31/10 Time: 0930 Samples Received By: [Signature]

Sub-Contractor
 Test America

Method
 SW8141A

Matrix
 Water

Analyte Name
 Dimethoate
 Zinophos
 Parathion, Ethyl
 Phorate

METHODS SUMMARY

COG310458

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

COG310458

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L40AE	001	GUDE-MW3A-GW	07/29/10	10:35
L40AG	002	GUDE-MW3B-GW	07/29/10	11:20
L40AH	003	GUDE-OB10-GW	07/29/10	13:15
L40AJ	004	GUDE-OB04-GW	07/29/10	13:40
L40AK	005	GUDE-OB04A-GW	07/29/10	09:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUDE-MW3A-GW

GC Semivolatiles

Lot-Sample #...: C0G310458-001 Work Order #...: L40AE1AC Matrix.....: WATER
Date Sampled...: 07/29/10 Date Received..: 07/31/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
Prep Batch #...: 0214374 Analysis Time..: 03:08
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	92	(45 - 145)
Tributyl phosphate	93	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-MW3B-GW

GC Semivolatiles

Lot-Sample #...: C0G310458-002 Work Order #...: L40AG1AC Matrix.....: WATER
Date Sampled...: 07/29/10 Date Received..: 07/31/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
Prep Batch #...: 0214374 Analysis Time..: 03:35
Dilution Factor: 0.98
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	88	(45 - 145)
Tributyl phosphate	90	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-OB10-GW

GC Semivolatiles

Lot-Sample #...: C0G310458-003 Work Order #...: L40AH1AC Matrix.....: WATER
Date Sampled...: 07/29/10 Date Received..: 07/31/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
Prep Batch #...: 0214374 Analysis Time..: 04:01
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	90	(45 - 145)	
Tributyl phosphate	91	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB04-GW

GC Semivolatiles

Lot-Sample #...: C0G310458-004 Work Order #...: L40AJ1AC Matrix.....: WATER
Date Sampled...: 07/29/10 Date Received..: 07/31/10 MS Run #.....:
Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
Prep Batch #...: 0214374 Analysis Time..: 04:28
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	90	(45 - 145)
Tributyl phosphate	95	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-OB04A-GW

GC Semivolatiles

Lot-Sample #...: C0G310458-005 Work Order #...: L40AK1AC Matrix.....: WATER
 Date Sampled...: 07/29/10 Date Received..: 07/31/10 MS Run #.....:
 Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
 Prep Batch #...: 0214374 Analysis Time..: 04:55
 Dilution Factor: 0.94
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.94	ug/L
Dimethoate	ND	0.94	ug/L
Disulfoton	ND	0.94	ug/L
Famphur	ND	0.94	ug/L
Methyl parathion	ND	0.94	ug/L
Ethyl parathion	ND	0.94	ug/L
Phorate	ND	0.94	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	95	(45 - 145)	
Tributyl phosphate	97	(49 - 122)	

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0G310458
MB Lot-Sample #: C0H020000-374
Analysis Date...: 08/04/10
Dilution Factor: 1

Work Order #...: L41D71AE
Prep Date.....: 08/02/10
Prep Batch #...: 0214374

Matrix.....: WATER
Analysis Time...: 22:41

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Thionazin	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Ethyl parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Triphenyl phosphate	97	(45 - 145)		
Tributyl phosphate	98	(49 - 122)		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0G310458 Work Order #...: L41D71AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C0H020000-374 L41D71AD-LCSD
 Prep Date.....: 08/02/10 Analysis Date..: 08/04/10
 Prep Batch #...: 0214374 Analysis Time..: 05:22
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Thionazin	96	(44 - 128)			SW846 8141A
	98	(44 - 128)	1.6	(0-21)	SW846 8141A
Phorate	104	(41 - 135)			SW846 8141A
	107	(41 - 135)	2.9	(0-24)	SW846 8141A
Disulfoton	97	(45 - 124)			SW846 8141A
	98	(45 - 124)	1.2	(0-30)	SW846 8141A
Methyl parathion	95	(41 - 148)			SW846 8141A
	96	(41 - 148)	1.2	(0-30)	SW846 8141A
Ethyl parathion	105	(56 - 125)			SW846 8141A
	106	(56 - 125)	1.4	(0-21)	SW846 8141A
Famphur	100	(52 - 131)			SW846 8141A
	101	(52 - 131)	0.19	(0-24)	SW846 8141A
Dimethoate	122	(26 - 136)			SW846 8141A
	124	(26 - 136)	1.3	(0-22)	SW846 8141A

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	81	(45 - 145)
	94	(45 - 145)
Tributyl phosphate	99	(49 - 122)
	86	(49 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Phase Separation Sciences

Client Sample ID: GUDE-MW3A-GW

General Chemistry

Lot-Sample #...: COG310458-001 Work Order #...: L40AE Matrix.....: WATER
Date Sampled...: 07/29/10 Date Received..: 07/31/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/03/10	0215054
		Dilution Factor: 1		Analysis Time.: 14:05	MS Run #.....: 0215027	

Phase Separation Sciences

Client Sample ID: GUDE-MW3B-GW

General Chemistry

Lot-Sample #...: C0G310458-002
Date Sampled...: 07/29/10

Work Order #...: L40AG
Date Received...: 07/31/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/03/10	0215054
		Dilution Factor: 1		Analysis Time.: 14:05	MS Run #.....: 0215027	

Phase Separation Sciences

Client Sample ID: GUDE-OB10-GW

General Chemistry

Lot-Sample #...: COG310458-003
Date Sampled...: 07/29/10

Work Order #...: L40AH
Date Received...: 07/31/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/03/10	0215054
		Dilution Factor: 1		Analysis Time.: 14:05	MS Run #.....: 0215027	

Phase Separation Sciences

Client Sample ID: GUDE-OB04-GW

General Chemistry

Lot-Sample #...: COG310458-004 Work Order #...: L40AJ Matrix.....: WATER
Date Sampled...: 07/29/10 Date Received..: 07/31/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/03/10	0215054
		Dilution Factor: 1		Analysis Time.: 14:05	MS Run #.....: 0215027	

Phase Separation Sciences

Client Sample ID: GUDE-OB04A-GW

General Chemistry

Lot-Sample #...: COG310458-005
Date Sampled...: 07/29/10

Work Order #...: L40AK
Date Received...: 07/31/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/03/10	0215054
		Dilution Factor: 1		Analysis Time.: 14:05	MS Run #.....: 0215027	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0G310458

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L41LD1AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	C0H030000-054 08/03/10	0215054
		Dilution Factor: 1				
		Analysis Time..: 14:05				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0G310458

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	98	(85 - 115)	SW846 9030B/9034	08/03/10	0215054
		Dilution Factor: 1		Analysis Time.: 14:05	

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0G310458

Matrix.....: WATER

Date Sampled...: 07/29/10

Date Received...: 07/31/10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide			WO#: L4X581CA-MS/L4X581CC-MSD		MS Lot-Sample #: C0G310440-003		
	96	(75 - 125)			SW846 9030B/9034	08/03/10	0215054
	99	(75 - 125)	3.0	(0-20)	SW846 9030B/9034	08/03/10	0215054
			Dilution Factor: 1				
			Analysis Time...: 14:05				
			MS Run #.....: 0215027				

NOTE(S):

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

Analytical Report for

EA Engineering

Certificate of Analysis No.: 10073021

Project Manager: Pete Lekas

Project Name : Gude Landfill

Project Location: Rockville, MD

Project ID : 6219608



August 11, 2010

Phase Separation Science, Inc.

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PHASE SEPARATION SCIENCE, INC.



August 11, 2010

Pete Lekas
EA Engineering
15 Loveton Circle
Sparks, MD 21152

Reference: PSS Work Order No: **10073021**
Project Name : Gude Landfill
Project Location: Rockville, MD
Project ID.: 6219608

Dear Pete Lekas :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10073021**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 28, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal

Laboratory Manager



Case Narrative Summary

Client Name: EA Engineering

Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10073021

The following samples were received under chain of custody by Phase Separation Science (PSS) on 07/30/2010 at 03:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10073021-001	Gude-DUP2-GW	GROUND WATER	07/30/2010 15:40
10073021-002	TB-34	WATER	07/30/2010 15:40
10073021-003	Gude-MW4-GW	GROUND WATER	07/30/2010 09:15
10073021-004	TB-28	WATER	07/30/2010 09:15
10073021-005	Gude-MW13B-GW	GROUND WATER	07/30/2010 11:10
10073021-006	TB-29	WATER	07/30/2010 11:10
10073021-007	Gude-MW13A-GW	GROUND WATER	07/30/2010 11:50
10073021-008	TB-30	WATER	07/30/2010 11:50
10073021-009	Gude-OB03A-GW	GROUND WATER	07/30/2010 12:50
10073021-010	TB-32	WATER	07/30/2010 12:50
10073021-011	Gude-OB105-GW	GROUND WATER	07/30/2010 09:50
10073021-012	TB-23	WATER	07/30/2010 09:50
10073021-013	Gude-OB03-GW	GROUND WATER	07/30/2010 12:10
10073021-014	TB-31	WATER	07/30/2010 12:10
10073021-015	Gude-MW8-GW	GROUND WATER	07/30/2010 13:55
10073021-016	TB-33	WATER	07/30/2010 13:55
10073021-017	Gude-GW-DUP3	GROUND WATER	07/30/2010 15:40
10073021-018	Gude-GW-TB22	WATER	07/30/2010 15:40
10073021-019	Gude-GW-DUP-4	GROUND WATER	07/30/2010 15:40
10073021-020	Gude-GW-TB24	WATER	07/30/2010 15:40

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Intermediate CCV for Mercury is 80%; limits are 90-110%.
Closing CCV for Mercury is 89%; limits are 90-110%.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].



Case Narrative Summary
Client Name: EA Engineering
Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10073021

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Arsenic	0.7	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 12:54	1034
Barium	27	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/09/10 23:40	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Chromium	0.9	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 12:54	1034
Cobalt	1.1	ug/L	1.0		1	0.5	08/05/10	08/09/10 23:40	1034
Copper	0.5	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 12:54	1034
Lead	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 12:54	1034
Nickel	21	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:54	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 12:54	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 12:54	1034
Zinc	17	ug/L	10		1	10	08/05/10	08/06/10 12:54	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:04	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/04/10 21:04	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/04/10 21:04	1029

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Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 22:19	1029

Chlorinated Herbicides Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 07:18	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 07:18	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 07:18	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 07:18	1029

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EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
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Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 14:36	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 14:36	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 14:36	1014
cis-1,2-Dichloroethene	0.6	ug/L	1	J	1	0.5	08/04/10	08/04/10 14:36	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 14:36	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 14:36	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 14:36	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 14:36	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 14:36	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 14:36	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 14:36	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 14:36	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 14:36	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 14:36	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 14:36	1014

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 17:11	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014

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 August 11, 2010

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 Project ID: 6219608

Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 17:11	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 17:11	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 17:11	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 17:11	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014

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CERTIFICATE OF ANALYSIS

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 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-DUP2-GW **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-001**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:11	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-34 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-002**
Matrix: WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>Flag</u>	<u>Dil</u>	<u>LOD</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 22:37	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 22:37	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 22:37	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 22:37	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 22:37	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 22:37	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 22:37	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Arsenic	0.6	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 13:14	1034
Barium	27	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:05	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Chromium	0.8	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 13:14	1034
Cobalt	1.1	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:05	1034
Copper	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Lead	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 13:14	1034
Nickel	20	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:14	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:14	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:14	1034
Zinc	13	ug/L	10		1	10	08/05/10	08/06/10 13:14	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/04/10 21:32	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/04/10 21:32	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/04/10 21:32	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:50	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 06:46	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 06:46	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 06:46	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 06:46	1029

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 15:05	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 15:05	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 15:05	1014
cis-1,2-Dichloroethene	0.5	ug/L	1	J	1	0.5	08/04/10	08/04/10 15:05	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 15:05	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 15:05	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 15:05	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 15:05	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 15:05	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 15:05	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 15:05	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 15:05	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 15:05	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 15:05	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 15:05	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 17:37	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 17:37	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 17:37	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 17:37	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 17:37	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW4-GW **Date/Time Sampled: 07/30/2010 09:15** **PSS Sample ID: 10073021-003**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 17:37	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Arsenic	0.7	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 13:20	1034
Barium	57	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:11	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Chromium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Cobalt	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Copper	0.8	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 13:20	1034
Lead	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Mercury	0.2	ug/L	0.20		1	0.1	08/05/10	08/06/10 13:20	1034
Nickel	2.2	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:20	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:20	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:20	1034
Zinc	14	ug/L	10		1	10	08/05/10	08/06/10 13:20	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:00	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/04/10 22:00	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/04/10 22:00	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 21:21	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 06:13	1029
2,4,5-TP (Silvex)	0.1	ug/L	0.2	J	1	0.1	08/05/10	08/07/10 06:13	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 06:13	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 06:13	1029

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	8	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Vinyl Chloride	13	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/05/10 03:19	1014
Trichlorofluoromethane	2	ug/L	1		1	1	08/04/10	08/05/10 03:19	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Methylene chloride	11	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
trans-1,2-Dichloroethene	5	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,1-Dichloroethane	23	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/05/10 03:19	1014
cis-1,2-Dichloroethene	140	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,2-Dichloroethane	3	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Benzene	6	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,2-Dichloropropane	9	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/05/10 03:19	1014
Trichloroethene	38	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/05/10 03:19	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/05/10 03:19	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/05/10 03:19	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/05/10 03:19	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/05/10 03:19	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/05/10 03:19	1014
Tetrachloroethene	38	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Chlorobenzene	2	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/05/10 03:19	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,4-Dichlorobenzene	12	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,2-Dichlorobenzene	1	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/05/10 03:19	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:19	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/05/10 03:19	1014
Ethyl ether (TIC)	11	ug/L	5		1	5	08/04/10	08/05/10 03:19	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 20:41	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 20:41	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 20:41	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 20:41	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 20:41	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13B-GW **Date/Time Sampled: 07/30/2010 11:10** **PSS Sample ID: 10073021-005**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Trichloroethylene (TIC)	4	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Tetrachloroethylene (TIC)	7	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014
Bicyclo[6.1.0]nonane, 9-bromo-9-methyl-, (1. (TIC)	5	ug/L	5		1	2.5	08/02/10	08/02/10 20:41	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Arsenic	2.0	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Barium	230	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Beryllium	0.9	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:17	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Chromium	18	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Cobalt	16	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:17	1034
Copper	58	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Lead	6.5	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Mercury	0.2	ug/L	0.20		1	0.1	08/05/10	08/06/10 13:26	1034
Nickel	23	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:26	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:26	1034
Vanadium	54	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:26	1034
Zinc	70	ug/L	10		1	10	08/05/10	08/06/10 13:26	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:28	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/04/10 22:28	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/04/10 22:28	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:51	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 05:41	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 05:41	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 05:41	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 05:41	1029

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	8	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Vinyl Chloride	8	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/05/10 03:47	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/05/10 03:47	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Methylene chloride	10	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
trans-1,2-Dichloroethene	4	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,1-Dichloroethane	23	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/05/10 03:47	1014
cis-1,2-Dichloroethene	100	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,2-Dichloroethane	2	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Benzene	3	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,2-Dichloropropane	6	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/05/10 03:47	1014
Trichloroethene	33	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/05/10 03:47	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/05/10 03:47	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/05/10 03:47	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/05/10 03:47	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/05/10 03:47	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/05/10 03:47	1014
Tetrachloroethene	35	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Chlorobenzene	1	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/05/10 03:47	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,4-Dichlorobenzene	5	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/05/10 03:47	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 03:47	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/05/10 03:47	1014
Ethyl ether (TIC)	7	ug/L	5		1	5	08/04/10	08/05/10 03:47	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 18:04	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 18:04	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 18:04	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 18:04	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 18:04	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW13A-GW **Date/Time Sampled: 07/30/2010 11:50** **PSS Sample ID: 10073021-007**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:04	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Arsenic	4.8	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Barium	560	ug/L	10		10	5	08/05/10	08/10/10 16:38	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:29	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Chromium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Cobalt	69	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:29	1034
Copper	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Lead	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 13:33	1034
Nickel	20	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Thallium	1.1	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:33	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:33	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:33	1034
Zinc	23	ug/L	10		1	10	08/05/10	08/06/10 13:33	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 22:56	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/04/10 22:56	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/04/10 22:56	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 20:22	1029

Chlorinated Herbicides Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 05:08	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 05:08	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 05:08	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 05:08	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	11	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Vinyl Chloride	18	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 10:47	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 10:47	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
trans-1,2-Dichloroethene	6	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,1-Dichloroethane	38	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 10:47	1014
cis-1,2-Dichloroethene	110	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,2-Dichloroethane	3	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Benzene	5	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,2-Dichloropropane	10	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 10:47	1014
Trichloroethene	70	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 10:47	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 10:47	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 10:47	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 10:47	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 10:47	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 10:47	1014
Tetrachloroethene	15	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Chlorobenzene	4	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 10:47	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,4-Dichlorobenzene	12	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,2-Dichlorobenzene	1	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 10:47	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:47	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 10:47	1014
Ethyl ether (TIC)	19	ug/L	5		1	5	08/04/10	08/04/10 10:47	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 21:07	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 21:07	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 21:07	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 21:07	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 21:07	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03A-GW **Date/Time Sampled: 07/30/2010 12:50** **PSS Sample ID: 10073021-009**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 21:07	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Arsenic	5.2	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Barium	200	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Beryllium	1.4	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:35	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Chromium	72	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Cobalt	46	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:35	1034
Copper	43	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Lead	8.8	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Mercury	1.3	ug/L	0.20		1	0.1	08/05/10	08/06/10 13:39	1034
Nickel	110	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Selenium	0.7	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 13:39	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:39	1034
Tin	3.0	ug/L	5.0	J	1	2.5	08/05/10	08/06/10 13:39	1034
Vanadium	34	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:39	1034
Zinc	170	ug/L	10		1	10	08/05/10	08/06/10 13:39	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:24	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/04/10 23:24	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/04/10 23:24	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 19:53	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 04:36	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 04:36	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 04:36	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 04:36	1029

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 11:46	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 11:46	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 11:46	1014
cis-1,2-Dichloroethene	13	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 11:46	1014
Trichloroethene	1	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 11:46	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 11:46	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 11:46	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 11:46	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 11:46	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 11:46	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 11:46	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,4-Dichlorobenzene	3	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 11:46	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:46	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 11:46	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 18:30	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 18:30	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 18:30	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 18:30	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 18:30	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB105-GW **Date/Time Sampled: 07/30/2010 09:50** **PSS Sample ID: 10073021-011**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:30	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Arsenic	3.4	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Barium	550	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:41	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Chromium	2.1	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Cobalt	61	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:41	1034
Copper	4.0	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Lead	1.1	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 13:57	1034
Nickel	20	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Thallium	1.6	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:57	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:57	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 13:57	1034
Zinc	25	ug/L	10		1	10	08/05/10	08/06/10 13:57	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/04/10 23:52	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/04/10 23:52	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/04/10 23:52	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 18:26	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 04:03	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 04:03	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 04:03	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 04:03	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	15	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Vinyl Chloride	23	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Chloroethane	1	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 11:16	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 11:16	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
trans-1,2-Dichloroethene	9	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,1-Dichloroethane	50	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 11:16	1014
cis-1,2-Dichloroethene	160	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,2-Dichloroethane	4	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Benzene	6	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,2-Dichloropropane	13	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 11:16	1014
Trichloroethene	92	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 11:16	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 11:16	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 11:16	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 11:16	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 11:16	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 11:16	1014
Tetrachloroethene	28	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Chlorobenzene	3	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 11:16	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,4-Dichlorobenzene	15	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,2-Dichlorobenzene	2	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 11:16	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 11:16	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 11:16	1014
Ethyl ether (TIC)	24	ug/L	5		1	5	08/04/10	08/04/10 11:16	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 18:56	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 18:56	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 18:56	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 18:56	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 18:56	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-OB03-GW **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-013**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 18:56	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
EA Engineering, Sparks, MD
August 11, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-31	Date/Time Sampled: 07/30/2010 12:10	PSS Sample ID: 10073021-014
Matrix: WATER	Date/Time Received: 07/30/2010 15:40	

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/05/10 01:26	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/05/10 01:26	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Methylene chloride	0.7	ug/L	1	J	1	0.5	08/04/10	08/05/10 01:26	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/05/10 01:26	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/05/10 01:26	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/05/10 01:26	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/05/10 01:26	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-31 **Date/Time Sampled: 07/30/2010 12:10** **PSS Sample ID: 10073021-014**
Matrix: WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/05/10 01:26	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/05/10 01:26	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/05/10 01:26	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/05/10 01:26	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/05/10 01:26	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/05/10 01:26	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:26	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/05/10 01:26	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Arsenic	4.1	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Barium	290	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Beryllium	3.2	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:47	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Chromium	71	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Cobalt	110	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:47	1034
Copper	78	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Lead	27	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 14:04	1034
Nickel	100	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Selenium	0.7	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:47	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:04	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 14:04	1034
Vanadium	47	ug/L	5.0		1	2.5	08/05/10	08/06/10 14:04	1034
Zinc	280	ug/L	10		1	10	08/05/10	08/06/10 14:04	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 00:20	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/05/10 00:20	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/05/10 00:20	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:56	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 03:30	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 03:30	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 03:30	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 03:30	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 09:50	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 09:50	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 09:50	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 09:50	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 09:50	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 09:50	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 09:50	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 09:50	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 09:50	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 09:50	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Chlorobenzene	0.9	ug/L	1	J	1	0.5	08/04/10	08/04/10 09:50	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 09:50	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 09:50	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 09:50	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 09:50	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 19:22	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 19:22	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 19:22	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 19:22	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 19:22	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW8-GW **Date/Time Sampled: 07/30/2010 13:55** **PSS Sample ID: 10073021-015**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:22	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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CERTIFICATE OF ANALYSIS

No: 10073021
EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-33	Date/Time Sampled: 07/30/2010 13:55	PSS Sample ID: 10073021-016
Matrix: WATER	Date/Time Received: 07/30/2010 15:40	

Volatile Organic Compounds	Analytical Method: SW846 8260B	Preparation Method: SW846 5030B							
<i>Library search was performed and TICs (if any) are listed below, values of TICs are estimated</i>									
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/05/10 01:54	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/05/10 01:54	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/05/10 01:54	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/05/10 01:54	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/05/10 01:54	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/05/10 01:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 01:54	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/05/10 01:54	1014

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Arsenic	4.7	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Barium	190	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Beryllium	1.1	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:53	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Chromium	58	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Cobalt	46	ug/L	1.0		1	0.5	08/05/10	08/10/10 00:53	1034
Copper	38	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Lead	7.2	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Mercury	1.0	ug/L	0.20		1	0.1	08/05/10	08/06/10 14:10	1034
Nickel	97	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Selenium	0.7	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 14:10	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:10	1034
Tin	3.0	ug/L	5.0	J	1	2.5	08/05/10	08/06/10 14:10	1034
Vanadium	28	ug/L	5.0		1	2.5	08/05/10	08/06/10 14:10	1034
Zinc	140	ug/L	10		1	10	08/05/10	08/06/10 14:10	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 00:48	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/05/10 00:48	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/05/10 00:48	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 17:27	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 02:58	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 02:58	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 02:58	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 02:58	1029

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Vinyl Chloride	0.7	ug/L	1	J	1	0.5	08/04/10	08/04/10 02:59	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 02:59	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 02:59	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 02:59	1014
cis-1,2-Dichloroethene	13	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 02:59	1014
Trichloroethene	1	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 02:59	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 02:59	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 02:59	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 02:59	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 02:59	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 02:59	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 02:59	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,4-Dichlorobenzene	3	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 02:59	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 02:59	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 02:59	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 19:48	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 19:48	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 19:48	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 19:48	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 19:48	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP3 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-017**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 19:48	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-TB22 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-018**
Matrix: WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/05/10 02:23	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/05/10 02:23	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Methylene chloride	2	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/05/10 02:23	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/05/10 02:23	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/05/10 02:23	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/05/10 02:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-TB22 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-018**
Matrix: WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/05/10 02:23	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/05/10 02:23	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/05/10 02:23	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/05/10 02:23	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/05/10 02:23	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/05/10 02:23	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:23	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/05/10 02:23	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Arsenic	3.6	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Barium	550	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:17	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Chromium	1.8	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Cobalt	60	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:17	1034
Copper	4.3	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Lead	0.8	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 14:16	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 14:16	1034
Nickel	20	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Thallium	1.6	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:16	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 14:16	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 14:16	1034
Zinc	29	ug/L	10		1	10	08/05/10	08/06/10 14:16	1034

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 01:16	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/05/10 01:16	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/05/10 01:16	1029

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CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 16:58	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/05/10	08/07/10 01:20	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 01:20	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/05/10	08/07/10 01:20	1029
Dinoseb	ND	ug/L	1		1	0.5	08/05/10	08/07/10 01:20	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	14	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Vinyl Chloride	22	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Chloroethane	1	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 03:27	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 03:27	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
trans-1,2-Dichloroethene	8	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,1-Dichloroethane	49	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 03:27	1014
cis-1,2-Dichloroethene	160	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,2-Dichloroethane	4	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Benzene	6	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,2-Dichloropropane	13	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 03:27	1014
Trichloroethene	92	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 03:27	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 03:27	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds	Analytical Method: SW846 8260B		Preparation Method: SW846 5030B						
<i>Library search was performed and TICs (if any) are listed below, values of TICs are estimated</i>									
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 03:27	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 03:27	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 03:27	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 03:27	1014
Tetrachloroethene	28	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Chlorobenzene	3	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 03:27	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,4-Dichlorobenzene	15	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,2-Dichlorobenzene	2	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 03:27	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:27	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 03:27	1014
Ethene, ethyloxy- (TIC)	24	ug/L	5		1	5	08/04/10	08/04/10 03:27	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Acetophenone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 20:15	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Chrysene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 20:15	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Fluorene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Isophorone	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/02/10	08/02/10 20:15	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/02/10	08/02/10 20:15	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/02/10	08/02/10 20:15	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Phenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Pyrene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-DUP-4 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-019**
Matrix: GROUND WATER **Date/Time Received: 07/30/2010 15:40**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Trichloroethylene (TIC)	6	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014
Tetrachloroethylene (TIC)	4	ug/L	5		1	2.5	08/02/10	08/02/10 20:15	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/04/10	08/04/10 16:12	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-TB24 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-020**
Matrix: WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/05/10 02:51	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/05/10 02:51	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/05/10 02:51	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/05/10 02:51	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/05/10 02:51	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/05/10 02:51	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10073021

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-GW-TB24 **Date/Time Sampled: 07/30/2010 15:40** **PSS Sample ID: 10073021-020**
Matrix: WATER **Date/Time Received: 07/30/2010 15:40**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/05/10 02:51	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/05/10 02:51	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/05/10 02:51	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/05/10 02:51	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/05/10 02:51	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/05/10 02:51	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/05/10 02:51	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/05/10 02:51	1014



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC. Sparks, MD PAGES 1 OF 2

PROJECT MGR: Peter Lekas PHONE NO.: (410) 771-4950

EMAIL: plekas@earest.com FAX NO.: (410) 771-4204

PROJECT NAME: Gude Landfill PROJECT NO: 627608

SITE LOCATION: Rockville, MD P.O. NO.:

SAMPLERS: Joe Sawicki / Bryan Keteley

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINERS	SAMPLE TYPE	ANALYSIS METHOD REQUIRED	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	REMARKS
1	Gude-Dupa-GW	-	-	GW	11	G	③	VOC 8260	X	X	X	X	X	X	X	X	X	X	Sulfido 9030
2	TB-34	-	-	-	2	G	③	5VOC 8270	X	X	X	X	X	X	X	X	X	X	Chloride 8151
3	Gude-MW4-GW	7/30/10	0915	-	11	G	③	Metals 6020	X	X	X	X	X	X	X	X	X	X	Chloride 8151
4	TB-28	-	0915	-	2	G	③	Herbicide 8151	X	X	X	X	X	X	X	X	X	X	Chloride 8151
5	Gude-MW13A-GW	-	1110	-	11	G	③	Metals 6020	X	X	X	X	X	X	X	X	X	X	Chloride 8151
6	TB-29	-	1110	-	2	G	③	5VOC 8270	X	X	X	X	X	X	X	X	X	X	Chloride 8151
7	Gude-MW13A-GW	-	1150	-	11	G	③	Metals 6020	X	X	X	X	X	X	X	X	X	X	Chloride 8151
8	TB-30	-	1150	-	2	G	③	Herbicide 8151	X	X	X	X	X	X	X	X	X	X	Chloride 8151
9	Gude-0803A-GW	-	1250	-	11	G	③	Metals 6020	X	X	X	X	X	X	X	X	X	X	Chloride 8151
10	TB-32	-	1250	-	2	G	③	5VOC 8270	X	X	X	X	X	X	X	X	X	X	Chloride 8151

3 Requested Turnaround Time: 5-Day 3-Day 2-Day Other

4 # of Coolers: 10 Custody Seal: ABS Ice Present: YES Temp: 10°C

Relinquished By: (1) *John Sink* Received By: *R. Owens*

Relinquished By: (2) Received By:

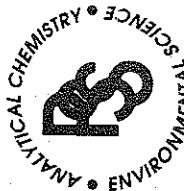
Relinquished By: (3) Received By:

Relinquished By: (4) Received By:

Special Instructions: EDV

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC: Sparks, MD
 PROJECT MGR: Peter Lekas PHONE NO.: (410) 771-9950
 EMAIL: Plekas@east.com FAX NO.: (410) 771-4204
 PROJECT NAME: Gude Landfill PROJECT NO.: 6219608
 SITE LOCATION: Rockville, MD P.O. NO.:
 SAMPLERS: Joe Sawicki / Bryan Katelyn

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
11	Gude-08105-GW	0950	0950	GW
12	TB-23	0950	0950	
13	Gude-0803-GW		1210	
14	TB-31		1210	
15	Gude-MW8-GW		1355	
16	TB-33		1355	
17	Gude-GW-DMP-3			
18	Gude-GW-TB-22			
19	Gude-GW-DMP-4			
20	Gude-GW-TB-24			

5 Relinquished By: (1) *Joe Sawicki* Date: 7/30/10 Time: 1640
 Relinquished By: (2) _____ Date: _____ Time: _____
 Relinquished By: (3) _____ Date: _____ Time: _____
 Relinquished By: (4) _____ Date: _____ Time: _____

Received By: *[Signature]* Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

PSS Work Order #: 10073021 PAGE 2 OF 2

Matrix Codes:	SW=Surface Wtr	DW=Drinking Wtr	GW=Ground Wtr	WM=Waste Wtr	O=Oil	S=Soil	WL=Waste Liquid	WS=Waste Solid	W=Wipe
Preservatives Used									
Analyses/Method Required									
NO. CONTAINERS									
VOC 260	X								
Metals 6020	X								
Herbicides 8151	X								
Insecticides 8081	X								
Organophosphates 8141	X								
PCB 8082	X								
Chloride 9010	X								
Sulfate 9030	X								

Requested Turnaround Time: 5-Day 3-Day 2-Day
 Next Day Emergency Other

Data Deliverables Required: **EOD**

of Coolers: 10
 Custody Seal: ABS
 Ice Present: PAS Temp: 10°C
 Shipping Carrier: CLIENT

Special Instructions:

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Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10073021 **Received By** Rachel Davis
Client Name EA Engineering **Date Received** 07/30/2010 03:40:00 PM
Project Name Gude Landfill **Delivered By** Client
Project Number 6219608 **Tracking No** Not Applicable
Disposal Date: 09/28/2010 **Logged In By** Rachel Davis

Shipping Container(s)

No. of Coolers	10	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	10
Seal Condition	Not Applicable	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No **Sampler Name:** Joseph Sawicki
Chain of Custody (COC) Yes or No **MD DW Cert. No.:** N/A

Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/> <input type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/> <input type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	20	Total No. of Containers Received	130

Preservation

	Yes	No	N/A
Metals (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

Samples Inspected/Checklist Completed By: 

Date: 8/2/10

PM Review and Approval: 

Date: 8/2/10

ANALYTICAL REPORT

PROJECT NO. 6219608/10073021

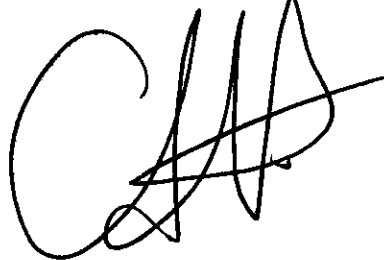
Phase Sep Science East Station

Lot #: COH030462

Betsy Orr

Phase Separation Sciences
6630 Baltimore National Pike
Route 40 West
Baltimore, MD 21228

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch
Project Manager

August 12, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW HW	X
US Dept of Agriculture Arkansas	(#P330-10-00139) (#88-0690)	Foreign Soil Import Permit	X
California – NELAC	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – NELAC	(#E871008)	WW HW	X X
Illinois – NELAC	(#002319)	WW HW	X X
Kansas – NELAC	(#E-10350)	WW HW	X X
Louisiana – NELAC	(#04041)	WW HW	X X
New Hampshire – NELAC	(#203010)	WW -	X -
New Jersey – NELAC	(PA-005)	WW HW	X X
New York – NELAC	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Pennsylvania - NELAC	(#02-00416)	WW HW	X X
South Carolina	(#89014002)	WW HW	X X
Utah – NELAC	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pttsburgh_Updated 051910.doc

CASE NARRATIVE

Phase Separation Sciences

Lot # COH030462

Sample Receiving:

TestAmerica Pittsburgh received samples on August 3, 2010. The coolers were received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

OPP's:

The laboratory control samples recovered above control limits for dimethoate. As this compound is not detected in the associated samples, the positive bias is not believed to have an impact on data quality. All results were reported.

General Chemistry:

There were no problems associated with the analysis.

Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Phone: (410) 747-8770
 Fax: (410) 788-8723

W.O. No.: 10073021

P.O. No.:

Project Name: Gude Landfill

Project Number: 6219608

Samples Transferred To:
 Test America

5710 Executive Drive, Suite 106
 Catonsville, MD 21228

Contact: Ken Ives
 Phone: 410-869-0085

For Questions or issues please contact: John Slowikowski

Report Due On: 08-06-00 TEST AMERICA STANDARD

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10073021-001	Gude-DUP2-GW	07/30/10	15:40	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-001	Gude-DUP2-GW	07/30/10	15:40	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-003	Gude-MW4-GW	07/30/10	09:15	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-003	Gude-MW4-GW	07/30/10	09:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-005	Gude-MW13B-GW	07/30/10	11:10	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-005	Gude-MW13B-GW	07/30/10	11:10	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-007	Gude-MW13A-GW	07/30/10	11:50	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-007	Gude-MW13A-GW	07/30/10	11:50	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-009	Gude-OB03A-GW	07/30/10	12:30	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-009	Gude-OB03A-GW	07/30/10	12:30	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-011	Gude-OB105-GW	07/30/10	09:50	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-011	Gude-OB105-GW	07/30/10	09:50	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-013	Gude-OB03-GW	07/30/10	12:10	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-013	Gude-OB03-GW	07/30/10	12:10	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-015	Gude-MW8-GW	07/30/10	13:55	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-015	Gude-MW8-GW	07/30/10	13:55	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-017	Gude-GW-DUP3	07/30/10	15:40	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-017	Gude-GW-DUP3	07/30/10	15:40	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10073021-019	Gude-GW-DUP-4	07/30/10	15:40	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10073021-019	Gude-GW-DUP-4	07/30/10	15:40	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: QC SUMM

Send Report Attn: BETSY ORR

Perform Q.C. on Sample:

Airbill No.:

Carrier: TEST AMERICA COURIER

Condition Upon Receipt:

Chain of Custody Form for Subcontracted Analyses

Airbill No.: _____ Carrier: _____
 Condition Upon Receipt: _____

Comments: _____
 Samples Relinquished By: Paul Spivak Date: 8/2/10 Time: 11:13 Samples Received By: Paul Spivak
 Samples Relinquished By: Paul Spivak Date: 8/2/10 Time: _____ Samples Received By: _____
 Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Paul Spivak 8-3-10 10:10

Sub-Contractor	Method	Matrix	Analyte Name
Test America	SW8141A	Water	Phosphate
			Famphur
			Disulfoton
			Zinophos
			Parathion, Methyl
			Dimethoate
			Parathion, Ethyl

METHODS SUMMARY

COH030462

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C0H030462

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L4169	001	GUD-DUP2-GW	07/30/10	15:40
L4172	002	GUDE-MW4-GW	07/30/10	09:15
L4176	003	GUDE-MW13B-GW	07/30/10	11:10
L418F	004	GUDE-MW13A-GW	07/30/10	11:50
L418H	005	GUDE-OB03A-GW	07/30/10	12:50
L418K	006	GUDE-OB105-GW	07/30/10	09:50
L418L	007	GUDE-OB03-GW	07/30/10	12:10
L418M	008	GUDE-MW8-GW	07/30/10	13:55
L418N	009	GUDE-GW-DUP3	07/30/10	15:40
L418T	010	GUDE-GW-DUP4	07/30/10	15:40

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUD-DUP2-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-001 Work Order #...: L41691AA Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
Prep Batch #...: 0216330 Analysis Time..: 15:34
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
Parathion	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Thionazin	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	94	(45 - 145)
Tributyl phosphate	99	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-MW4-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-002 Work Order #...: L41721AA Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
Prep Batch #...: 0216330 Analysis Time..: 16:01
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
Parathion	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Thionazin	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	97	(45 - 145)
Tributyl phosphate	100	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-MW13B-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-003 Work Order #...: L41761AA Matrix.....: WATER
 Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
 Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
 Prep Batch #...: 0216330 Analysis Time..: 16:27
 Dilution Factor: 0.96
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.96	ug/L
Phorate	ND	0.96	ug/L
Parathion	ND	0.96	ug/L
Disulfoton	ND	0.96	ug/L
Thionazin	ND	0.96	ug/L
Famphur	ND	0.96	ug/L
Methyl parathion	ND	0.96	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	98	(45 - 145)	
Tributyl phosphate	103	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW13A-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-004 Work Order #...: L418F1AA Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
Prep Batch #...: 0216330 Analysis Time..: 16:54
Dilution Factor: 0.97
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
Parathion	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Thionazin	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	95	(45 - 145)
Tributyl phosphate	99	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-OB03A-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-005 Work Order #...: L418H1AA Matrix.....: WATER
 Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
 Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
 Prep Batch #...: 0216330 Analysis Time..: 17:21
 Dilution Factor: 0.97
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
Parathion	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Thionazin	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	96	(45 - 145)	
Tributyl phosphate	108	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB105-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-006 **Work Order #...**: L418K1AA **Matrix.....**: WATER
Date Sampled...: 07/30/10 **Date Received..**: 08/03/10 **MS Run #.....**:
Prep Date.....: 08/04/10 **Analysis Date..**: 08/08/10
Prep Batch #...: 0216330 **Analysis Time..**: 17:48
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
Parathion	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Thionazin	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	97	(45 - 145)	
Tributyl phosphate	101	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-OB03-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-007 **Work Order #...**: L418L1AA **Matrix.....**: WATER
Date Sampled...: 07/30/10 **Date Received..**: 08/03/10 **MS Run #.....**:
Prep Date.....: 08/04/10 **Analysis Date..**: 08/08/10
Prep Batch #...: 0216330 **Analysis Time..**: 18:15
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
Parathion	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Thionazin	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	97	(45 - 145)	
Tributyl phosphate	104	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW8-GW

GC Semivolatiles

Lot-Sample #...: C0H030462-008 Work Order #...: L418M1AA Matrix.....: WATER
 Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
 Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
 Prep Batch #...: 0216330 Analysis Time..: 20:55
 Dilution Factor: 0.96
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.96	ug/L
Phorate	ND	0.96	ug/L
Parathion	ND	0.96	ug/L
Disulfoton	ND	0.96	ug/L
Thionazin	ND	0.96	ug/L
Famphur	ND	0.96	ug/L
Methyl parathion	ND	0.96	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	97	(45 - 145)	
Tributyl phosphate	99	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-GW-DUP3

GC Semivolatiles

Lot-Sample #...: C0H030462-009 Work Order #...: L418N1AA Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
Prep Batch #...: 0216330 Analysis Time..: 21:22
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
Parathion	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Thionazin	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	96	(45 - 145)
Tributyl phosphate	99	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-GW-DUP4

GC Semivolatiles

Lot-Sample #...: C0H030462-010 Work Order #...: L418T1AA Matrix.....: WATER
 Date Sampled...: 07/30/10 Date Received..: 08/03/10 MS Run #.....:
 Prep Date.....: 08/04/10 Analysis Date..: 08/08/10
 Prep Batch #...: 0216330 Analysis Time..: 21:49
 Dilution Factor: 0.95
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Dimethoate	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
Parathion	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Thionazin	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	97	(45 - 145)	
Tributyl phosphate	103	(49 - 122)	

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0H030462
MB Lot-Sample #: C0H040000-330
Analysis Date...: 08/08/10
Dilution Factor: 1

Work Order #...: L435X1AA
Prep Date.....: 08/04/10
Prep Batch #...: 0216330

Matrix.....: WATER
Analysis Time...: 18:41

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Thionazin	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Triphenyl phosphate	97	(45 - 145)		
Tributyl phosphate	98	(49 - 122)		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0H030462 Work Order #...: L435X1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C0H040000-330 L435X1AD-LCSD
 Prep Date.....: 08/04/10 Analysis Date...: 08/08/10
 Prep Batch #...: 0216330 Analysis Time...: 19:08
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Thionazin	112	(44 - 128)			SW846 8141A
	112	(44 - 128)	0.53	(0-21)	SW846 8141A
Phorate	115	(41 - 135)			SW846 8141A
	118	(41 - 135)	1.8	(0-24)	SW846 8141A
Disulfoton	111	(45 - 124)			SW846 8141A
	111	(45 - 124)	0.72	(0-30)	SW846 8141A
Methyl parathion	107	(41 - 148)			SW846 8141A
	106	(41 - 148)	0.56	(0-30)	SW846 8141A
Parathion	122	(56 - 125)			SW846 8141A
	123	(56 - 125)	0.65	(0-21)	SW846 8141A
Famphur	115	(52 - 131)			SW846 8141A
	114	(52 - 131)	0.87	(0-24)	SW846 8141A
Dimethoate	146 a	(26 - 136)			SW846 8141A
	143 a	(26 - 136)	2.0	(0-22)	SW846 8141A

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	98	(45 - 145)
	91	(45 - 145)
Tributyl phosphate	104	(49 - 122)
	96	(49 - 122)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Phase Separation Sciences

Client Sample ID: GUD-DUP2-GW

General Chemistry

Lot-Sample #...: C0H030462-001 Work Order #...: L4169 Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW4-GW

General Chemistry

Lot-Sample #...: C0H030462-002
Date Sampled...: 07/30/10

Work Order #...: L4172
Date Received...: 08/03/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW13B-GW

General Chemistry

Lot-Sample #...: C0H030462-003
Date Sampled...: 07/30/10

Work Order #...: L4176
Date Received...: 08/03/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW13A-GW

General Chemistry

Lot-Sample #...: C0H030462-004 Work Order #...: L418F Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB03A-GW

General Chemistry

Lot-Sample #...: C0H030462-005

Work Order #...: L418H

Matrix.....: WATER

Date Sampled...: 07/30/10

Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-OB105-GW

General Chemistry

Lot-Sample #...: C0H030462-006 Work Order #...: L418K Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	2.9 B	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time.: 15:25	MS Run #.....:	

NOTE(S):

RL Reporting Limit
B Estimated result. Result is less than RL.

Phase Separation Sciences

Client Sample ID: GUDE-OB03-GW

General Chemistry

Lot-Sample #...: C0H030462-007 Work Order #...: L418L Matrix.....: WATER
Date Sampled...: 07/30/10 Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	3.4	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-MW8-GW

General Chemistry

Lot-Sample #...: C0H030462-008

Work Order #...: L418M

Matrix.....: WATER

Date Sampled...: 07/30/10

Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-GW-DUP3

General Chemistry

Lot-Sample #...: C0H030462-009

Work Order #...: L418N

Matrix.....: WATER

Date Sampled...: 07/30/10

Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

Phase Separation Sciences

Client Sample ID: GUDE-GW-DUP4

General Chemistry

Lot-Sample #...: C0H030462-010

Work Order #...: L418T

Matrix.....: WATER

Date Sampled...: 07/30/10

Date Received..: 08/03/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25	MS Run #.....:	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0H030462

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L47T81AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	C0H060000-223 08/06/10	0218223
		Dilution Factor: 1				
		Analysis Time..: 15:25				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: C0H030462

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide		WO#:L47T81AC-LCS/L47T81AD-LCSD		LCS Lot-Sample#: C0H060000-223			
	99	(85 - 115)			SW846 9030B/9034	08/06/10	0218223
	100	(85 - 115)	0.41	(0-20)	SW846 9030B/9034	08/06/10	0218223
		Dilution Factor: 1		Analysis Time..: 15:25			

NOTE(S):

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

Analytical Report for

EA Engineering

Certificate of Analysis No.: 10080209

Project Manager: Pete Lekas

Project Name : Gude Landfill

Project Location: Rockville, MD

Project ID : 6219608



August 11, 2010

Phase Separation Science, Inc.

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PHASE SEPARATION SCIENCE, INC.



August 11, 2010

Pete Lekas
EA Engineering
15 Loveton Circle
Sparks, MD 21152

Reference: PSS Work Order No: **10080209**
Project Name : Gude Landfill
Project Location: Rockville, MD
Project ID.: 6219608

Dear Pete Lekas :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10080209**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 1, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal

Laboratory Manager



Case Narrative Summary

Client Name: EA Engineering

Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10080209

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/02/2010 at 02:15 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10080209-001	Gude-MW11B-GW	GROUND WATER	08/02/2010 09:45
10080209-002	TB-37	WATER	08/02/2010 09:45
10080209-003	Gude-MW11A-GW	GROUND WATER	08/02/2010 10:15
10080209-004	TB-38	WATER	08/02/2010 10:15
10080209-005	Gude-MW10-GW	GROUND WATER	08/02/2010 11:10
10080209-006	TB-39	WATER	08/02/2010 11:10
10080209-007	Gude-MW7-GW	GROUND WATER	08/02/2010 09:31
10080209-008	TB-34	WATER	08/02/2010 09:31
10080209-009	Gude-MW12-GW	GROUND WATER	08/02/2010 12:16
10080209-010	TB-36	WATER	08/02/2010 12:16
10080209-011	Gude-MW9-GW	GROUND WATER	08/02/2010 10:58
10080209-012	TB-35	WATER	08/02/2010 10:58

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Arsenic	0.6	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 16:48	1034
Barium	24	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Chromium	2.9	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Cobalt	0.9	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:23	1034
Copper	2.2	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Lead	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 16:48	1034
Nickel	2.1	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:48	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 16:48	1034
Vanadium	7.3	ug/L	5.0		1	2.5	08/05/10	08/06/10 16:48	1034
Zinc	12	ug/L	10		1	10	08/05/10	08/10/10 01:23	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 01:44	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/05/10 01:44	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/05/10 01:44	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:11	1029

Chlorinated Herbicides Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/06/10	08/06/10 22:04	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 22:04	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 22:04	1029
Dinoseb	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:04	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 10:18	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 10:18	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 10:18	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 10:18	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 10:18	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 10:18	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 10:18	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 10:18	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 10:18	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 10:18	1014
Tetrachloroethene	2	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 10:18	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 10:18	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 10:18	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 10:18	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Acetophenone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 20:18	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Chrysene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 20:18	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Fluorene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Isophorone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 20:18	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/03/10	08/03/10 20:18	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 20:18	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
Pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11B-GW **Date/Time Sampled: 08/02/2010 09:45** **PSS Sample ID: 10080209-001**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 20:18	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/06/10	08/06/10 15:51	1022

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Arsenic	1.1	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Barium	90	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Chromium	21	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Cobalt	8.6	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:29	1034
Copper	19	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Lead	4.9	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 16:54	1034
Nickel	21	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:54	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 16:54	1034
Vanadium	23	ug/L	5.0		1	2.5	08/05/10	08/06/10 16:54	1034
Zinc	50	ug/L	10		1	10	08/05/10	08/10/10 01:29	1034

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:12	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/05/10 02:12	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/05/10 02:12	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 12:40	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/06/10	08/06/10 22:36	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 22:36	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 22:36	1029
Dinoseb	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:36	1029

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 03:55	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 03:55	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 03:55	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 03:55	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 03:55	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 03:55	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 03:55	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 03:55	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 03:55	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 03:55	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 03:55	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 03:55	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 03:55	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 03:55	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Acetophenone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 19:52	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Chrysene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 19:52	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Fluorene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Isophorone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 19:52	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/03/10	08/03/10 19:52	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 19:52	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
Pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW11A-GW **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-003**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 19:52	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/06/10	08/06/10 15:51	1022

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-38 **Date/Time Sampled: 08/02/2010 10:15** **PSS Sample ID: 10080209-004**
Matrix: WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Toluene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/05/10	08/05/10 22:45	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Acrolein	ND	ug/L	20		1	10	08/05/10	08/05/10 22:45	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Bromoform	ND	ug/L	5		1	2.5	08/05/10	08/05/10 22:45	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 22:45	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/05/10	08/05/10 22:45	1014
Styrene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
o-Xylene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/05/10	08/05/10 22:45	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Naphthalene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 22:45	1014
Iodomethane	ND	ug/L	20		1	10	08/05/10	08/05/10 22:45	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Arsenic	0.9	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 17:01	1034
Barium	92	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Chromium	7.0	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Cobalt	3.4	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:35	1034
Copper	19	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Lead	2.3	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 17:01	1034
Nickel	8.6	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:01	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:01	1034
Vanadium	18	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:01	1034
Zinc	28	ug/L	10		1	10	08/05/10	08/10/10 01:35	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 02:40	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/05/10 02:40	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/05/10 02:40	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:09	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/06/10	08/06/10 23:09	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 23:09	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 23:09	1029
Dinoseb	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:09	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Chloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Bromomethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Chloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Acetone	ND	ug/L	5		1	5	08/05/10	08/05/10 10:42	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/05/10	08/05/10 10:42	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/05/10	08/05/10 10:42	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Chloroform	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Benzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Acrylonitrile	ND	ug/L	10		1	5	08/05/10	08/05/10 10:42	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/05/10	08/05/10 10:42	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/05/10	08/05/10 10:42	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Toluene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/05/10	08/05/10 10:42	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Acrolein	ND	ug/L	20		1	10	08/05/10	08/05/10 10:42	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Bromoform	ND	ug/L	5		1	2.5	08/05/10	08/05/10 10:42	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 10:42	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/05/10	08/05/10 10:42	1014
Styrene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
o-Xylene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/05/10	08/05/10 10:42	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Naphthalene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 10:42	1014
Iodomethane	ND	ug/L	20		1	10	08/05/10	08/05/10 10:42	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Acetophenone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 18:07	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Chrysene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 18:07	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Fluorene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Isophorone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 18:07	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/03/10	08/03/10 18:07	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 18:07	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
Pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW10-GW **Date/Time Sampled: 08/02/2010 11:10** **PSS Sample ID: 10080209-005**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 18:07	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/06/10	08/06/10 15:51	1022

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Arsenic	1.2	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Barium	80	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Chromium	1.8	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Cobalt	16	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:41	1034
Copper	18	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Lead	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 17:07	1034
Nickel	9.9	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:07	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:07	1034
Vanadium	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:07	1034
Zinc	13	ug/L	10		1	10	08/05/10	08/10/10 01:41	1034

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No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Endrin	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/03/10	08/05/10 03:08	1029
Toxaphene	ND	ug/L	10		5	5	08/03/10	08/05/10 03:08	1029
Chlordane	ND	ug/L	10		5	5	08/03/10	08/05/10 03:08	1029

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CERTIFICATE OF ANALYSIS

No: 10080209
EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 13:38	1029

Chlorinated Herbicides Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/06/10	08/06/10 23:41	1029
2,4,5-TP (Silvex)	0.1	ug/L	0.2	J	1	0.1	08/06/10	08/06/10 23:41	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/06/10	08/06/10 23:41	1029
Dinoseb	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:41	1029

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No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Vinyl Chloride	5	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 04:24	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 04:24	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,1-Dichloroethane	2	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 04:24	1014
cis-1,2-Dichloroethene	31	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,2-Dichloroethane	1	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Benzene	2	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 04:24	1014
Trichloroethene	2	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 04:24	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 04:24	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 04:24	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 04:24	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 04:24	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 04:24	1014
Tetrachloroethene	1	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Chlorobenzene	3	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 04:24	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,4-Dichlorobenzene	9	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 04:24	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:24	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 04:24	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Acetophenone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 17:15	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Chrysene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 17:15	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Fluorene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Isophorone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 17:15	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/03/10	08/03/10 17:15	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 17:15	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
Pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW7-GW **Date/Time Sampled: 08/02/2010 09:31** **PSS Sample ID: 10080209-007**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014
2,6,10-Dodecatrien-1-ol, 3,7,11-tr (TIC)	7	ug/L	5		1	2.5	08/03/10	08/03/10 17:15	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/06/10	08/06/10 15:51	1022

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Arsenic	1.9	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Barium	760	ug/L	10		10	5	08/05/10	08/10/10 16:44	1034
Beryllium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Cadmium	0.6	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 17:13	1034
Chromium	64	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Cobalt	19	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:53	1034
Copper	39	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Lead	16	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 17:13	1034
Nickel	60	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Selenium	0.5	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 17:13	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Thallium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:13	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:13	1034
Vanadium	28	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:13	1034
Zinc	110	ug/L	10		1	10	08/05/10	08/10/10 01:53	1034

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:24	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/05/10 06:24	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/05/10 06:24	1029

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:07	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/06/10	08/07/10 00:14	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/06/10	08/07/10 00:14	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/06/10	08/07/10 00:14	1029
Dinoseb	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:14	1029

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Chloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Bromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Chloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Acetone	ND	ug/L	5		1	5	08/04/10	08/04/10 04:52	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/04/10	08/04/10 04:52	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/04/10	08/04/10 04:52	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Chloroform	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Benzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Acrylonitrile	ND	ug/L	10		1	5	08/04/10	08/04/10 04:52	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/04/10	08/04/10 04:52	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/04/10	08/04/10 04:52	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Toluene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/04/10	08/04/10 04:52	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Acrolein	ND	ug/L	20		1	10	08/04/10	08/04/10 04:52	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Bromoform	ND	ug/L	5		1	2.5	08/04/10	08/04/10 04:52	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/04/10	08/04/10 04:52	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/04/10	08/04/10 04:52	1014
Styrene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
o-Xylene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/04/10	08/04/10 04:52	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Naphthalene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/04/10	08/04/10 04:52	1014
Iodomethane	ND	ug/L	20		1	10	08/04/10	08/04/10 04:52	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Acetophenone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 17:41	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Chrysene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 17:41	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Fluorene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Isophorone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 17:41	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/03/10	08/03/10 17:41	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 17:41	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
Pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW12-GW **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-009**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 17:41	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/06/10	08/06/10 15:51	1022

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: TB-36 **Date/Time Sampled: 08/02/2010 12:16** **PSS Sample ID: 10080209-010**
Matrix: WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Chloromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Bromomethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Chloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Acetone	ND	ug/L	5		1	5	08/05/10	08/06/10 23:45	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/05/10	08/06/10 23:45	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Methylene chloride	2	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/05/10	08/06/10 23:45	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Chloroform	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Benzene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Acrylonitrile	ND	ug/L	10		1	5	08/05/10	08/06/10 23:45	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/05/10	08/06/10 23:45	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 23:45	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/05/10	08/06/10 23:45	1014

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Total Metals Analytical Method: SW846 6020 Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Arsenic	3.8	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Barium	200	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Beryllium	0.7	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 17:19	1034
Cadmium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Chromium	140	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Cobalt	28	ug/L	1.0		1	0.5	08/05/10	08/10/10 01:59	1034
Copper	35	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Lead	26	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Mercury	ND	ug/L	0.20		1	0.1	08/05/10	08/06/10 17:19	1034
Nickel	110	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Selenium	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Silver	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:19	1034
Thallium	0.7	ug/L	1.0	J	1	0.5	08/05/10	08/06/10 17:19	1034
Tin	ND	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:19	1034
Vanadium	63	ug/L	5.0		1	2.5	08/05/10	08/06/10 17:19	1034
Zinc	130	ug/L	10		1	10	08/05/10	08/10/10 01:59	1034

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Endrin	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/03/10	08/05/10 06:52	1029
Toxaphene	ND	ug/L	2		1	1	08/03/10	08/05/10 06:52	1029
Chlordane	ND	ug/L	2		1	1	08/03/10	08/05/10 06:52	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/03/10	08/04/10 14:36	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/06/10	08/07/10 00:46	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/06/10	08/07/10 00:46	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/06/10	08/07/10 00:46	1029
Dinoseb	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:46	1029

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CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Chloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Bromomethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Chloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Acetone	ND	ug/L	5		1	5	08/05/10	08/05/10 11:13	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/05/10	08/05/10 11:13	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/05/10	08/05/10 11:13	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Chloroform	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Benzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Acrylonitrile	ND	ug/L	10		1	5	08/05/10	08/05/10 11:13	1014
Trichloroethene	0.7	ug/L	1	J	1	0.5	08/05/10	08/05/10 11:13	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/05/10	08/05/10 11:13	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/05/10	08/05/10 11:13	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Toluene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/05/10	08/05/10 11:13	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Acrolein	ND	ug/L	20		1	10	08/05/10	08/05/10 11:13	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Bromoform	ND	ug/L	5		1	2.5	08/05/10	08/05/10 11:13	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 11:13	1014
Tetrachloroethene	14	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/05/10	08/05/10 11:13	1014
Styrene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
o-Xylene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/05/10	08/05/10 11:13	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Naphthalene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/05/10	08/05/10 11:13	1014
Iodomethane	ND	ug/L	20		1	10	08/05/10	08/05/10 11:13	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Acetophenone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 16:49	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Chrysene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014

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CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 16:49	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Fluorene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Isophorone	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/03/10	08/03/10 16:49	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/03/10	08/03/10 16:49	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/03/10	08/03/10 16:49	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Phenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
Pyrene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209
 EA Engineering, Sparks, MD
 August 11, 2010

Project Name: Gude Landfill
 Project Location: Rockville, MD
 Project ID: 6219608

Sample ID: Gude-MW9-GW **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-011**
Matrix: GROUND WATER **Date/Time Received: 08/02/2010 14:15**

Semivolatile Organic Compounds Analytical Method: SW846 8270C Preparation Method: SW846 3510C

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014
2,6,10-Dodecatrien-1-ol, 3,7,11-tr (TIC)	5	ug/L	5		1	2.5	08/03/10	08/03/10 16:49	1014

Cyanide Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/06/10	08/06/10 15:51	1022

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10080209

EA Engineering, Sparks, MD

August 11, 2010

Project Name: Gude Landfill
Project Location: Rockville, MD
Project ID: 6219608

Sample ID: TB-35 **Date/Time Sampled: 08/02/2010 10:58** **PSS Sample ID: 10080209-012**
Matrix: WATER **Date/Time Received: 08/02/2010 14:15**

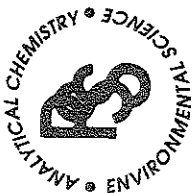
Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

Library search was performed and TICs (if any) are listed below, values of TICs are estimated

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Chloromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Bromomethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Chloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Acetone	ND	ug/L	5		1	5	08/05/10	08/06/10 00:04	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/05/10	08/06/10 00:04	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Methylene chloride	2	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/05/10	08/06/10 00:04	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Chloroform	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Benzene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Acrylonitrile	ND	ug/L	10		1	5	08/05/10	08/06/10 00:04	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/05/10	08/06/10 00:04	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/05/10	08/06/10 00:04	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/05/10	08/06/10 00:04	1014



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC. Sparks, MD
 PROJECT MGR: Peter Lekas PHONE NO: (410) 771-4950
 EMAIL: plekas@east.com FAX NO: (410) 771-4204
 PROJECT NAME: Gude Landfill PROJECT NO: 6219608
 SITE LOCATION: Rockville, MD P.O. NO:
 SAMPLERS: Joseph Sawicki / Bryan Katelyn

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis/Method Required	Herbicide	Organic phosphates	PCB	Cyanide	Sulfide	Metals	REMARKS
1	Gude-MW11B-GW	8/2/10	0945	GW	11	G		3	X	X	X	X	X	X	
2	TB-37		0945		2				X	X	X	X	X	X	
3	Gude-MW-11A-GW		1015		11				X	X	X	X	X	X	
4	TB-38		1015		2				X	X	X	X	X	X	
5	Gude-MW10-GW		1110		11				X	X	X	X	X	X	
6	TB-39		1110		2				X	X	X	X	X	X	
7	Gude-MW7-GW		0931		11				X	X	X	X	X	X	
8	TB-34		0931		3				X	X	X	X	X	X	
9	Gude-MW12-GW		1216		11				X	X	X	X	X	X	
10	TB-36		1216		2				X	X	X	X	X	X	

5 Relinquished By: (1) *John Zink* Date: 8/2/10 Time: 1415 Received By: *[Signature]*
 Relinquished By: (2) Date: Time: Received By:
 Relinquished By: (3) Date: Time: Received By:
 Relinquished By: (4) Date: Time: Received By:

4 Requested Turnaround Time: 5-Day 3-Day 2-Day
 Next Day Emergency Other
 Data Deliverables Required: EDO
 Ice Present: PRES Temp: 16°C
 Custody Seal: ABS
 Shipping Carrier: CLIENT
 # of Coolers: 6
 Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number	10080209	Received By	Rachel Davis
Client Name	EA Engineering	Date Received	08/02/2010 02:15:00 PM
Project Name	Gude Landfill	Delivered By	Client
Project Number	6219608	Tracking No	Not Applicable
Disposal Date:	10/01/2010	Logged In By	Rachel Davis

Shipping Container(s)

No. of Coolers	6	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	16
Seal Condition	Not Applicable	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No Sampler Name: Joseph Sawicki
 Chain of Custody (COC) Yes or No MD DW Cert. No.: N/A

Sample Container

Appropriate for Specified Analysis? Yes No Custody Seal(s) Absent
 Intact? Yes No Custody Seal(s) Intact? Not Applicable
 Labeled and Labels Legible Yes No Seal(s) Signed / Dated Not Applicable
 Total No. of Samples Received 12 Total No. of Containers Received 78

Preservation

		Yes	No	N/A
Metals	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides	(pH>12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfide	(pH>9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

Samples Inspected/Checklist Completed By: *R. Davis*

Date: 8/2/10

PM Review and Approval: *[Signature]*

Date: 8/2/10

ANALYTICAL REPORT

PROJECT NO. 6219608/10080209

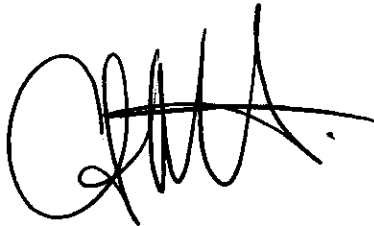
Phase Sep Science East Station

Lot #: COH040611

Betsy Orr

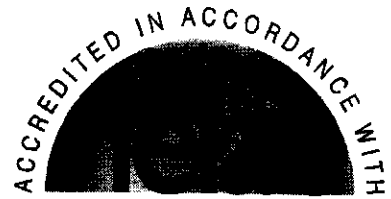
Phase Separation Sciences
6630 Baltimore National Pike
Route 40 West
Baltimore, MD 21228

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch
Project Manager

August 16, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW	X
US Dept of Agriculture	(#P330-10-00139)	HW	X
Arkansas	(#88-0690)	Foreign Soil Import Permit	X
California – NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida – NELAC	(#E871008)	WW	X
		HW	X
Illinois – NELAC	(#002319)	WW	X
		HW	X
Kansas – NELAC	(#E-10350)	WW	X
		HW	X
Louisiana – NELAC	(#04041)	WW	X
		HW	X
New Hampshire – NELAC	(#203010)	WW	X
		-	--
New Jersey – NELAC	(PA-005)	WW	X
		HW	X
New York – NELAC	(#11182)	WW	X
		HW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014002)	WW	X
		HW	X
Utah – NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pittsburgh_Updated 051910.doc

CASE NARRATIVE

Phase Separation Sciences

Lot # C0H040611

Sample Receiving:

TestAmerica Pittsburgh received samples on August 4, 2010. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

OPP's:

The surrogate of sample GUDE-MW07-GW recovered outside control limits for tributyl phosphate. Triphenyl phosphate recovered within acceptable QC limits.

General Chemistry:

There were no problems associated with the analysis.

Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Phone: (410) 747-8770
 Fax: (410) 788-8723

W.O. No.: 10080209
 P.O. No.: _____
 Project Name: Gude Landfill
 Project Number: 6219608

Samples Transferred To:
 Test America
 5710 Executive Drive, Suite 106
 Catonsville, MD 21228

For Questions or Issues please contact: John Slowikowski

Contact: Ken Ives
 Phone: 410-869-0085
Report Due On: ~~08/02/10~~ 05/04/10 TEST AMERICA STANDARD

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10080209-001	Gude-MW11B-GW	08/02/10	09:45	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080209-001	Gude-MW11B-GW	08/02/10	09:45	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080209-003	Gude-MW11A-GW	08/02/10	10:15	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080209-003	Gude-MW11A-GW	08/02/10	10:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080209-005	Gude-MW10-GW	08/02/10	11:10	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080209-005	Gude-MW10-GW	08/02/10	11:10	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080209-007	Gude-MW7-GW	08/02/10	09:31	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080209-007	Gude-MW7-GW	08/02/10	09:31	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080209-009	Gude-MW12-GW	08/02/10	12:16	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080209-009	Gude-MW12-GW	08/02/10	12:16	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080209-011	Gude-MW9-GW	08/02/10	10:58	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080209-011	Gude-MW9-GW	08/02/10	10:58	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: QC SUMM

Perform Q.C. on Sample:

Send Report Attn: Betsy Orr

Airbill No.: _____ Carrier: TEST AMERICA COURIER

Condition Upon Receipt: _____

Comments: _____

Samples Relinquished By: [Signature] Date: 8/3/10 Time: 1042 Samples Received By: [Signature]
 Samples Relinquished By: [Signature] Date: 8/3/10 Time: _____ Samples Received By: _____
 Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: [Signature] 8/4/10 1020

Sub-Contractor
 Test America

Method
 SW8141A

Matrix
 Water

Analyte Name
 Parathion, Methyl
 Parathion, Ethyl

Chain of Custody Form for Subcontracted Analyses

Airbill No.: _____ Carrier: _____

Condition Upon Receipt: _____

Comments: _____

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: _____

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: _____

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: _____

Sub-Contractor
Test America

Method
SW8141A

Matrix
Water

Analyte Name
Disulfoton
Zincophos
Dimethoate
Phorate
Famphur

METHODS SUMMARY

COH040611

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C0H040611

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L44KQ	001	GUDE-MW11B-GW	08/02/10	09:45
L44KR	002	GUDE-MW11A-GW	08/02/10	10:15
L44KT	003	GUDE-MW10-GW	08/02/10	11:10
L44KV	004	GUDE-MW07-GW	08/02/10	09:31
L44KW	005	GUDE-MW12-GW	08/02/10	12:16
L44KX	006	GUDE-MW09-GW	08/02/10	10:58

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUDE-MW11B-GW

GC Semivolatiles

Lot-Sample #...: C0H040611-001 Work Order #...: L44KQ1AC Matrix.....: WATER
 Date Sampled...: 08/02/10 Date Received..: 08/04/10 MS Run #.....:
 Prep Date.....: 08/06/10 Analysis Date..: 08/09/10
 Prep Batch #...: 0218346 Analysis Time..: 02:16
 Dilution Factor: 0.97
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	108	(45 - 145)	
Tributyl phosphate	111	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW11A-GW

GC Semivolatiles

Lot-Sample #...: C0H040611-002 Work Order #...: L44KR1AC Matrix.....: WATER
Date Sampled...: 08/02/10 Date Received..: 08/04/10 MS Run #.....:
Prep Date.....: 08/06/10 Analysis Date..: 08/09/10
Prep Batch #...: 0218346 Analysis Time..: 02:42
Dilution Factor: 1
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	1.0	ug/L
Dimethoate	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Famphur	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Ethyl parathion	ND	1.0	ug/L
Phorate	ND	1.0	ug/L

	<u>PERCENT</u>	<u>RECOVERY</u>
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	103	(45 - 145)
Tributyl phosphate	104	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-MW10-GW

GC Semivolatiles

Lot-Sample #...: C0H040611-003 Work Order #...: L44KT1AC Matrix.....: WATER
 Date Sampled...: 08/02/10 Date Received..: 08/04/10 MS Run #.....:
 Prep Date.....: 08/06/10 Analysis Date..: 08/09/10
 Prep Batch #...: 0218346 Analysis Time..: 03:09
 Dilution Factor: 0.99
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.99	ug/L
Dimethoate	ND	0.99	ug/L
Disulfoton	ND	0.99	ug/L
Famphur	ND	0.99	ug/L
Methyl parathion	ND	0.99	ug/L
Ethyl parathion	ND	0.99	ug/L
Phorate	ND	0.99	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	102	(45 - 145)	
Tributyl phosphate	103	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW07-GW

GC Semivolatiles

Lot-Sample #...: C0H040611-004 Work Order #...: L44KV1AC Matrix.....: WATER
 Date Sampled...: 08/02/10 Date Received..: 08/04/10 MS Run #.....:
 Prep Date.....: 08/06/10 Analysis Date..: 08/09/10
 Prep Batch #...: 0218346 Analysis Time..: 03:36
 Dilution Factor: 0.94
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.94	ug/L
Dimethoate	ND	0.94	ug/L
Disulfoton	ND	0.94	ug/L
Famphur	ND	0.94	ug/L
Methyl parathion	ND	0.94	ug/L
Ethyl parathion	ND	0.94	ug/L
Phorate	ND	0.94	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	104	(45 - 145)
Tributyl phosphate	133 *	(49 - 122)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Phase Separation Sciences

Client Sample ID: GUDE-MW12-GW

GC Semivolatiles

Lot-Sample #...: C0H040611-005 Work Order #...: L44KW1AC Matrix.....: WATER
 Date Sampled...: 08/02/10 Date Received..: 08/04/10 MS Run #.....:
 Prep Date.....: 08/06/10 Analysis Date..: 08/09/10
 Prep Batch #...: 0218346 Analysis Time..: 04:03
 Dilution Factor: 0.95
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	105	(45 - 145)	
Tributyl phosphate	107	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-MW09-GW

GC Semivolatiles

Lot-Sample #...: C0H040611-006 **Work Order #...**: L44KX1AC **Matrix.....**: WATER
Date Sampled...: 08/02/10 **Date Received..**: 08/04/10 **MS Run #.....**:
Prep Date.....: 08/06/10 **Analysis Date..**: 08/09/10
Prep Batch #...: 0218346 **Analysis Time..**: 04:29
Dilution Factor: 0.95
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.95	ug/L
Dimethoate	ND	0.95	ug/L
Disulfoton	ND	0.95	ug/L
Famphur	ND	0.95	ug/L
Methyl parathion	ND	0.95	ug/L
Ethyl parathion	ND	0.95	ug/L
Phorate	ND	0.95	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	101	(45 - 145)	
Tributyl phosphate	103	(49 - 122)	

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0H040611
MB Lot-Sample #: C0H060000-346
Analysis Date...: 08/09/10
Dilution Factor: 1

Work Order #...: L48V41AE
Prep Date.....: 08/06/10
Prep Batch #...: 0218346

Matrix.....: WATER
Analysis Time...: 00:56

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Thionazin	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Ethyl parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Triphenyl phosphate	103	(45 - 145)		
Tributyl phosphate	105	(49 - 122)		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0H040611 Work Order #...: L48V41AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: C0H060000-346 L48V41AD-LCSD
 Prep Date.....: 08/06/10 Analysis Date..: 08/09/10
 Prep Batch #...: 0218346 Analysis Time..: 05:49
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Thionazin	100	(44 - 128)			SW846 8141A
	104	(44 - 128)	4.0	(0-21)	SW846 8141A
	110	(56 - 125)	5.0	(0-21)	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Triphenyl phosphate	103	(45 - 145)
	105	(45 - 145)
Tributyl phosphate	108	(49 - 122)
	112	(49 - 122)

NOTE(S):

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

Bold print denotes control parameters

Phase Separation Sciences

Client Sample ID: GUDE-MW11B-GW

General Chemistry

Lot-Sample #...: C0H040611-001 Work Order #...: L44KQ Matrix.....: WATER
Date Sampled...: 08/02/10 Date Received..: 08/04/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0217038	

Phase Separation Sciences

Client Sample ID: GUDE-MW11A-GW

General Chemistry

Lot-Sample #...: C0H040611-002
Date Sampled...: 08/02/10

Work Order #...: L44KR
Date Received...: 08/04/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time.: 00:00	MS Run #.....: 0217038	

Phase Separation Sciences

Client Sample ID: GUDE-MW10-GW

General Chemistry

Lot-Sample #...: C0H040611-003
Date Sampled...: 08/02/10

Work Order #...: L44KT
Date Received...: 08/04/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0217038	

Phase Separation Sciences

Client Sample ID: GUDE-MW07-GW

General Chemistry

Lot-Sample #...: C0H040611-004 Work Order #...: L44KV Matrix.....: WATER
Date Sampled...: 08/02/10 Date Received..: 08/04/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0217038	

Phase Separation Sciences

Client Sample ID: GUDE-MW12-GW

General Chemistry

Lot-Sample #...: C0H040611-005 Work Order #...: L44KW Matrix.....: WATER
Date Sampled...: 08/02/10 Date Received..: 08/04/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0217038	

Phase Separation Sciences

Client Sample ID: GUDE-MW09-GW

General Chemistry

Lot-Sample #...: C0H040611-006
Date Sampled...: 08/02/10

Work Order #...: L44KX
Date Received...: 08/04/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0217038	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0H040611

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L446F1AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	C0H050000-064 08/05/10	0217064
		Dilution Factor: 1				
		Analysis Time..: 00:00				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H040611

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	99	(85 - 115)	SW846 9030B/9034	08/05/10	0217064
		Dilution Factor: 1		Analysis Time..: 00:00	

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H040611

Matrix.....: WATER

Date Sampled...: 08/02/10

Date Received...: 08/04/10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide			WO#: L44KQ1AD-MS/L44KQ1AE-MSD		MS Lot-Sample #: C0H040611-001		
	100	(75 - 125)			SW846 9030B/9034	08/05/10	0217064
	100	(75 - 125)	0.83	(0-20)	SW846 9030B/9034	08/05/10	0217064
			Dilution Factor: 1				
			Analysis Time...: 00:00				
			MS Run #.....: 0217038				

NOTE(S):

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