



Project No.		15-007	Soil Boring/ Well ID		<b>1603-S-1/W-1</b>
Site Location		1603 GOOD HOPE RD. S.E. D.C.		Date Started	5/13/2015
Client		DILAN INVESTMENTS		Date Completed	5/13/2015
Drilling Company	DCTI	Soil Sampling Method	5-FT SOIL SAMPLER	Well Screen/Riser Type	PVC
Drilling Method	GEOPROBE	Groundwater Sampling Method	GEOPUMP	Well Diameter	1-IN
Logged By	TOKES ADESIDA	Estimated Groundwater Elev.	15	Temporary/Stick-Up/Stick-up	TEMPORARY
Depth (feet)	Sample ID	PID Meter Response in parts per million (ppm) and well cross section	Soil Description and Strata Depth	Recovery (in)	Comments
1		0.0	Asphalt - 2-in thick with gravel TO 2-ft changing to Dark bm gray medium SAND, dry	48	Start Continuous 5-foot interval Geoprobe sampling from grade
2		0.0	Reddish- bm med-coarse SAND and gravel some gray silt at 9ft becoming Dark gray at 10 ft. , wet	60	
3		0.0	Light- Brown medium -coarse SAND and gravel, saturated at 15 ft.	60	Collected soil sample from 10 -15 ft. depth interval for lab analyses <b>Sample ID- 1603-S-1</b>
4		0.0	Same as above, changing Gray Silty SAND at 19ft., saturated	60	Set a temp 1-inch diameter temp PVC well 10-ft of PVC casing and 10-ft of PVC screen Collected groundwater samples using Geo-Pump with dedicated tubing <b>Sample ID- 1603-W-1</b>
5					
10					
15					
20			End of boring @ 20 feet		







Project No.		15-007		Soil Boring/ Well ID		1603-S-3	
Site Location		1603 GOOD HOPE RD. S.E.		Date Started		5/13/2015	
Client		DILAN INVESTMENTS		Date Completed		5/13/2015	
Soil Sampling Method		5-FT SOIL SAMPLER		Well Screen/Riser Type		N/A	
Groundwater Sampling Method		GEOPUMP		Well Diameter		N/A	
Estimated Groundwater		15		Temporary/Stick-Up/Stick-up		N/A	
Drilling Company		DCTI					
Drilling Method		GEOPROBE					
Logged By		TOKES ADESIDA					
Depth (feet)	Sample ID	PID Meter Response in parts per million (ppm) and well cross section	Soil Description and Strata Depth	Recovery (in)	Comments		
1		0.0	Asphalt and gravel to 2ft, Red-Bm silty SAND changing to dark-gray dium SAND some clay lenses at 5ft, dry	60	Start Continuous 5-foot interval Geoprobe sampling from grade		
5		0.0	Dark Gray sandy SILT to 8 ft changing to well graded medium - fine SAND and gravel, dry	48			
10							
15		0.0	Red-Bm m- c SAND and gavel, to 12 ft, some Silty clay lenses changing to gray m-c SAND and gravel, sat at 15ft	60			
20		0.0	Light -Gray m-c SAND and gravel some clay lenses at 18ft, saturated	60	Abandon probe hole by filling with bentonite		
			End of boring @ 20 feet				



Project No.		15-007		Soil Boring/ Well ID		1603-S-5	
Site Location		1603 GOOD HOPE RD. S.E. D.C.		Date Started		5/13/2015	
Client		DILAN INVESTMENTS		Date Completed		5/13/2015	
Soil Sampling Method		5-FT SOIL SAMPLER		Well Screen/Riser Type		N/A	
Groundwater Sampling Method		GEOPUMP				N/A	
Estimated Groundwater Elev.		15		Temporary/Stick-Up/Stick-up		N/A	
Soil Description and Strata Depth				Recovery (in)		Comments	
1	0.0	Asphalt and gravel to 4-in, becoming Brown medium SAND to 2ft some fine gravel , dry	48	Start Continuous 5-foot interval Geoprobe sampling from grade			
2	0.0	Red- Brn Lt gray silty CLAY some fine gravel at at 8ft changing well graded m-c SAND and gravel at 10 ft, dry	48				
5							
10							
15	0.0	Dark Gray m-c SAND and gravel, saturated	60				
		End of boring @ 15 feet		Abandon probe hole by filling with bentonite			





Project No.		15-007		Soil Boring/ Well ID		1603-S-6			
Site Location		1603 GOOD HOPE RD. S.E. D.C.		Date Started		5/13/2015			
Client		DILAN INVESTMENTS		Date Completed		5/13/2015			
Soil Sampling Method		5-FT SOIL SAMPLER		Well Screen/Riser Type		N/A			
Groundwater Sampling Method		GEOPUMP				N/A			
Estimated Groundwater Elev.		15		Temporary/Stick-Up/Stick-up		N/A			
Drilling Company		DCTI							
Drilling Method		GEOPROBE							
Logged By		TOKES ADESIDA							
Sample ID		PID Meter Response in parts per million (ppm) and well cross section		Soil Description and Strata Depth		Recovery (in)		Comments	
1	0.0		Asphalt and gravel 4-in thick becoming Brown medium SAND at 2ft, changing ingray silty SAND at 4ft	48					Start Continuous 5-foot interval Geoprobe sampling from grade
2	0.0		Brown medium SAND at 6ft changing to silty CLAY at 8ft, dry	60					
3	0.0		Same as Above to 10ft becoming Lt-brn m-c SAND and gravel with 1-ft thick layer of soft gray CLAY at 13ft changing to Lt brn m-c SAND and gravel at 15 ft , saturated	60					Abandon probe hole by filling with bentonite



Project No.		15-007		Soil Boring/ Well ID		1603-S-4	
Site Location		1603 GOOD HOPE RD. S.E. D.C.		Date Started		5/13/2015	
Client		DILAN INVESTMENTS		Date Completed		5/13/2015	
Soil Sampling Method		5-FT SOIL SAMPLER		Well Screen/Riser Type		N/A	
Groundwater Sampling Method		GEOPUMP		Well Diameter		N/A	
Estimated Groundwater Elev.		15		Temporary/Stick-Up/Stick-up		N/A	
Drilling Company		DCTI		Soil Description and Strata Depth		Recovery (in)	
Drilling Method		GEOPROBE		Soil Description and Strata Depth		Recovery (in)	
Logged By		TOKES ADESIDA		Soil Description and Strata Depth		Recovery (in)	
Sample ID		PID Meter Response in parts per million (ppm) and well cross section		Soil Description and Strata Depth		Recovery (in)	
Depth (feet)		PID Meter Response in parts per million (ppm) and well cross section		Soil Description and Strata Depth		Recovery (in)	
1	0.0			Asphalt and gravel to 3-in, becoming Brown medium SAND some fine gravel, dry	60		Start Continuous 5-foot interval Geoprobe sampling from grade
2	0.0			Light Gray sandy SILT to 8 ft changing to well graded medium - fine SAND and gravel, dry	48		
5							
10							
15	0.0			Red-Brn m- c SAND and gavel, to 12 feet, some Silty clay lenses changing to gray m-c SAND and gravel, sat at 15ft	60		
				End of boring @ 15 feet			Abandon probe hole by filling with bentonite



**PPENDIX E**

**Laboratory Data Package**

# Analytical Report for

**Cenken Group, LLC**

**Certificate of Analysis No.: 15051318**

**Project Manager: Tokes Adesida**

**Project Name : 1600 Good Hope Rd, SE DC**

**Project Location: 1512.1603 Good Hope Rd SE DC**

**Project ID : 15-007**



**May 20, 2015**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

**Baltimore, MD 21228**

**Phone: (410) 747-8770**

**Fax: (410) 788-8723**



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# PHASE SEPARATION SCIENCE, INC.



May 20, 2015

**Tokes Adesida**  
**Cenken Group, LLC**  
10739 Tucker Street, Ste 220  
Beltsville, MD 20705

Reference: PSS Work Order(s) No: **15051318**  
Project Name: 1600 Good Hope Rd, SE DC  
Project Location: 1512.1603 Good Hope Rd SE DC  
Project ID.: 15-007

Dear Tokes Adesida :

This report includes 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(s) numbered **15051318**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. 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 June 17, 2015. 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 5 years, after which time it will be disposed of 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](mailto:info@phaseonline.com).

Sincerely,

---

**Dan Prucnal**  
Laboratory Manager



**Sample Summary**  
**Client Name: Cenken Group, LLC**  
**Project Name: 1600 Good Hope Rd, SE DC**

**Work Order Number(s): 15051318**

**Project ID: 15-007**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/13/2015 at 05:05 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
15051318-001	1603-S-1	SOIL	05/13/15 08:30
15051318-002	1603-W-1	GROUND WATER	05/13/15 09:45
15051318-003	1512-S-1	SOIL	05/13/15 11:10
15051318-004	1512-W-1	GROUND WATER	05/13/15 12:05

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 Case Narrative Summary.

**Notes:**

1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of 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].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminants, and part 141.3, for the secondary drinking water contaminants.
5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

**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.
- 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 the MDL.
- MDL** This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND** Not Detected at or above the reporting limit.
- RL** PSS Reporting Limit.
- U** Not detected.

**Certifications:**

NELAP Certifications: PA 68-03330, VA 460156  
State Certifications: MD 179, WV 303  
Regulated Soil Permit: P330-12-00268  
NSWC USCG Accepted Laboratory  
LDBE MWAA LD1997-0041-2015



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318

Kenken Group, LLC, Beltsville, MD

May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC

Project Location: 1512.1603 Good Hope Rd SE DC

Project ID: 15-007

Sample ID: 1603-S-1

Date/Time Sampled: 05/13/2015 08:30

PSS Sample ID: 15051318-001

Matrix: SOIL

Date/Time Received: 05/13/2015 17:05

% Solids: 80

RCRA Metals

Analytical Method: SW-846 6020 A

Preparation Method: 3050B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Arsenic	7.3	mg/kg	0.55		1	05/15/15	05/18/15 17:53	1033
Barium	72	mg/kg	2.8		1	05/15/15	05/18/15 17:53	1033
Cadmium	ND	mg/kg	2.8		1	05/15/15	05/18/15 17:53	1033
Chromium	29	mg/kg	2.8		1	05/15/15	05/18/15 17:53	1033
Lead	10	mg/kg	2.8		1	05/15/15	05/18/15 17:53	1033
Mercury	ND	mg/kg	0.11		1	05/15/15	05/18/15 17:53	1033
Selenium	ND	mg/kg	2.8		1	05/15/15	05/18/15 17:53	1033
Silver	ND	mg/kg	2.8		1	05/15/15	05/18/15 17:53	1033

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Project ID: 15-007

Sample ID: 1603-S-1

Date/Time Sampled: 05/13/2015 08:30

PSS Sample ID: 15051318-001

Matrix: SOIL

Date/Time Received: 05/13/2015 17:05

% Solids: 80

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 B

Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
Benzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Bromochloromethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Bromodichloromethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Bromoform	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Bromomethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
3utanone (MEK)	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
Carbon Disulfide	ND	ug/kg	13		1	05/18/15	05/18/15 12:44	1011
Carbon Tetrachloride	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Chlorobenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Chloroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Chloroform	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Chloromethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Cyclohexane	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	51		1	05/18/15	05/18/15 12:44	1011
Dibromochloromethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,2-Dichlorobenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,3-Dichlorobenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,4-Dichlorobenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Dichlorodifluoromethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,1-Dichloroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,2-Dichloroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,1-Dichloroethene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,2-Dichloropropane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
cis-1,2-Dichloroethene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
cis-1,3-Dichloropropene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
ns-1,2-Dichloroethene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
rans-1,3-Dichloropropene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Ethylbenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318

Kenken Group, LLC, Beltsville, MD

May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1603-S-1**      **Date/Time Sampled: 05/13/2015 08:30**      **PSS Sample ID: 15051318-001**  
**Matrix: SOIL**      **Date/Time Received: 05/13/2015 17:05**      **% Solids: 80**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 B

Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
2-Hexanone	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
Isopropylbenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Methyl Acetate	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
Methylcyclohexane	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
Methylene Chloride	20	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
4-Methyl-2-Pentanone	ND	ug/kg	26		1	05/18/15	05/18/15 12:44	1011
Methyl-t-butyl ether	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Naphthalene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Styrene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Tetrachloroethene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Toluene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,2,3-Trichlorobenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,2,4-Trichlorobenzene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,1,1-Trichloroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,1,2-Trichloroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Trichloroethene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Trichlorofluoromethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
Vinyl Chloride	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011
m,p-Xylenes	ND	ug/kg	13		1	05/18/15	05/18/15 12:44	1011
o-Xylene	ND	ug/kg	6.4		1	05/18/15	05/18/15 12:44	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318

Kenken Group, LLC, Beltsville, MD

May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1603-W-1**      **Date/Time Sampled: 05/13/2015 09:45**      **PSS Sample ID: 15051318-002**  
**Matrix: GROUND WATER**      **Date/Time Received: 05/13/2015 17:05**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Benzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Bromochloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Bromodichloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Bromoform	ND	ug/L	5.0		1	05/16/15	05/16/15 18:03	1011
Bromomethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Butanone (MEK)	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Carbon Disulfide	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Chlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Chloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Chloroform	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Chloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Cyclohexane	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Dibromochloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Ethylbenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318

Kenken Group, LLC, Beltsville, MD

May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1603-W-1**      **Date/Time Sampled: 05/13/2015 09:45**      **PSS Sample ID: 15051318-002**  
**Matrix: GROUND WATER**      **Date/Time Received: 05/13/2015 17:05**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
2-Hexanone	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Isopropylbenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Methyl Acetate	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Methylcyclohexane	ND	ug/L	10		1	05/16/15	05/16/15 18:03	1011
Methylene Chloride	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	05/16/15	05/16/15 18:03	1011
Methyl-t-butyl ether	1.7	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Naphthalene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Styrene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Tetrachloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Toluene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Trichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	05/16/15	05/16/15 18:03	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
Vinyl Chloride	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011
m,p-Xylenes	ND	ug/L	2.0		1	05/16/15	05/16/15 18:03	1011
o-Xylene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:03	1011



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318  
 Cenken Group, LLC, Beltsville, MD  
 May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1512-S-1**      **Date/Time Sampled: 05/13/2015 11:10**      **PSS Sample ID: 15051318-003**  
**Matrix: SOIL**      **Date/Time Received: 05/13/2015 17:05**      **% Solids: 83**

RCRA Metals

Analytical Method: SW-846 6020 A

Preparation Method: 3050B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Arsenic	3.1	mg/kg	0.56		1	05/15/15	05/18/15 17:59	1033
Barium	18	mg/kg	2.8		1	05/15/15	05/18/15 17:59	1033
Cadmium	ND	mg/kg	2.8		1	05/15/15	05/18/15 17:59	1033
Chromium	12	mg/kg	2.8		1	05/15/15	05/18/15 17:59	1033
Lead	4.2	mg/kg	2.8		1	05/15/15	05/18/15 17:59	1033
Mercury	ND	mg/kg	0.11		1	05/15/15	05/18/15 17:59	1033
Selenium	ND	mg/kg	2.8		1	05/15/15	05/18/15 17:59	1033
Silver	ND	mg/kg	2.8		1	05/15/15	05/18/15 17:59	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318  
 Cenken Group, LLC, Beltsville, MD  
 May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1512-S-1**      **Date/Time Sampled: 05/13/2015 11:10**      **PSS Sample ID: 15051318-003**  
**Matrix: SOIL**      **Date/Time Received: 05/13/2015 17:05**      **% Solids: 83**

TCL Volatile Organic Compounds      Analytical Method: SW-846 8260 B      Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
Benzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Bromochloromethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Bromodichloromethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Bromoform	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Bromomethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Butanone (MEK)	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
Carbon Disulfide	ND	ug/kg	12		1	05/17/15	05/17/15 15:56	1011
Carbon Tetrachloride	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Chlorobenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Chloroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Chloroform	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Chloromethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Cyclohexane	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	47		1	05/17/15	05/17/15 15:56	1011
Dibromochloromethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,2-Dichlorobenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,3-Dichlorobenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,4-Dichlorobenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Dichlorodifluoromethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,1-Dichloroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,2-Dichloroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,1-Dichloroethene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
cis-1,2-Dichloroethene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,2-Dichloropropane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
cis-1,3-Dichloropropene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
trans-1,2-Dichloroethene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
trans-1,3-Dichloropropene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Ethylbenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318  
 Cenken Group, LLC, Beltsville, MD  
 May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1512-S-1**      **Date/Time Sampled: 05/13/2015 11:10**      **PSS Sample ID: 15051318-003**  
**Matrix: SOIL**      **Date/Time Received: 05/13/2015 17:05**      **% Solids: 83**

TCL Volatile Organic Compounds      Analytical Method: SW-846 8260 B      Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
2-Hexanone	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
Isopropylbenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Methyl Acetate	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
Methylcyclohexane	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
Methylene Chloride	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
4-Methyl-2-Pentanone	ND	ug/kg	24		1	05/17/15	05/17/15 15:56	1011
Methyl-t-butyl ether	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Naphthalene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Styrene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Tetrachloroethene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Toluene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,2,3-Trichlorobenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,2,4-Trichlorobenzene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,1,1-Trichloroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,1,2-Trichloroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Trichloroethene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Trichlorofluoromethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
Vinyl Chloride	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011
m,p-Xylenes	ND	ug/kg	12		1	05/17/15	05/17/15 15:56	1011
o-Xylene	ND	ug/kg	5.9		1	05/17/15	05/17/15 15:56	1011



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318  
 Cenken Group, LLC, Beltsville, MD  
 May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1512-W-1**      **Date/Time Sampled: 05/13/2015 12:05**      **PSS Sample ID: 15051318-004**  
**Matrix: GROUND WATER**      **Date/Time Received: 05/13/2015 17:05**

TCL Volatile Organic Compounds

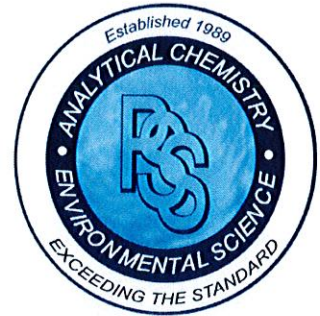
Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	13	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Benzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Bromochloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Bromodichloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Bromoform	ND	ug/L	5.0		1	05/16/15	05/16/15 18:38	1011
Bromomethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Butanone (MEK)	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Carbon Disulfide	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Chlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Chloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Chloroform	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Chloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Cyclohexane	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Dibromochloromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Dichlorodifluoromethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
ns-1,3-Dichloropropene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Ethylbenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 15051318

Kenken Group, LLC, Beltsville, MD

May 20, 2015

Project Name: 1600 Good Hope Rd, SE DC  
 Project Location: 1512.1603 Good Hope Rd SE DC  
 Project ID: 15-007

**Sample ID: 1512-W-1**      **Date/Time Sampled: 05/13/2015 12:05**      **PSS Sample ID: 15051318-004**  
**Matrix: GROUND WATER**      **Date/Time Received: 05/13/2015 17:05**

TCL Volatile Organic Compounds

Analytical Method: SW-846 8260 B

Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
2-Hexanone	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Isopropylbenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Methyl Acetate	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Methylcyclohexane	ND	ug/L	10		1	05/16/15	05/16/15 18:38	1011
Methylene Chloride	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	05/16/15	05/16/15 18:38	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Naphthalene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Styrene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Tetrachloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Toluene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Trichloroethene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	05/16/15	05/16/15 18:38	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
Vinyl Chloride	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011
m,p-Xylenes	ND	ug/L	2.0		1	05/16/15	05/16/15 18:38	1011
o-Xylene	ND	ug/L	1.0		1	05/16/15	05/16/15 18:38	1011



## Case Narrative Summary

Client Name: Cenken Group, LLC

Project Name: 1600 Good Hope Rd, SE DC

Work Order Number(s): 15051318

Project ID: 15-007

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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.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

### Sample Receipt:

All sample receipt conditions were acceptable.

**NELAP accreditation was held for all analyses performed unless noted below. See [www.phaseonline.com](http://www.phaseonline.com) for complete PSS scope of accreditation.**





# Analytical Data Package Information Summary

Work Order(s): 15051318

Report Prepared For: Cenken Group, LLC, Beltsville, MD

Project Name: 1600 Good Hope Rd, SE DC

Project Manager: Tokes Adesida

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mix	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
ASTM D2216 05	1603-S-1	Initial	15051318-001	1045	S	122702	122702	05/13/2015	05/15/2015 09:46	05/15/2015 09:46
	1512-S-1	Initial	15051318-003	1045	S	122702	122702	05/13/2015	05/15/2015 09:46	05/15/2015 09:46
SW-846 6020 A	1603-S-1	Initial	15051318-001	1033	S	55484	122784	05/13/2015	05/15/2015 14:57	05/18/2015 17:53
	1512-S-1	Initial	15051318-003	1033	S	55484	122784	05/13/2015	05/15/2015 14:57	05/18/2015 17:59
	55484-1-BKS	BKS	55484-1-BKS	1033	S	55484	122784	-----	05/15/2015 14:57	05/18/2015 14:58
	55484-1-BLK	BLK	55484-1-BLK	1033	S	55484	122784	-----	05/15/2015 14:57	05/18/2015 14:52
	11885-B4-(2.5-4) S	MS	15051312-003 S	1033	S	55484	122784	05/10/2015	05/15/2015 14:57	05/18/2015 15:10
	11885-B4-(2.5-4) SD	MSD	15051312-003 SD	1033	S	55484	122784	05/10/2015	05/15/2015 14:57	05/18/2015 15:16
SW-846 8260 B	1512-S-1	Initial	15051318-003	1011	S	55494	122745	05/13/2015	05/17/2015 08:34	05/17/2015 15:56
	55494-1-BKS	BKS	55494-1-BKS	1011	S	55494	122745	-----	05/17/2015 08:34	05/17/2015 10:58
	55494-1-BLK	BLK	55494-1-BLK	1011	S	55494	122745	-----	05/17/2015 08:34	05/17/2015 10:28
	#4 S	MS	15051113-004 S	1011	S	55494	122745	05/06/2015	05/17/2015 08:34	05/17/2015 12:29
	#4 SD	MSD	15051113-004 SD	1011	S	55494	122745	05/06/2015	05/17/2015 08:34	05/17/2015 12:59
	1603-W-1	Initial	15051318-002	1011	W	55495	122748	05/13/2015	05/16/2015 07:47	05/16/2015 18:03
	1512-W-1	Initial	15051318-004	1011	W	55495	122748	05/13/2015	05/16/2015 07:47	05/16/2015 18:38
	55495-1-BKS	BKS	55495-1-BKS	1011	W	55495	122748	-----	05/16/2015 07:47	05/16/2015 09:21
	55495-1-BLK	BLK	55495-1-BLK	1011	W	55495	122748	-----	05/16/2015 07:47	05/16/2015 10:30
	GW-FT-050815 S	MS	15050809-001 S	1011	W	55495	122748	05/08/2015	05/16/2015 07:47	05/16/2015 12:15
	GW-FT-050815 SD	MSD	15050809-001 SD	1011	W	55495	122748	05/08/2015	05/16/2015 07:47	05/16/2015 12:50
	1603-S-1	Initial	15051318-001	1011	S	55519	122785	122785	05/13/2015	05/18/2015 08:39
55519-1-BKS	BKS	55519-1-BKS	1011	S	55519	122785	122785	-----	05/18/2015 08:39	05/18/2015 11:37
55519-1-BLK	BLK	55519-1-BLK	1011	S	55519	122785	122785	-----	05/18/2015 08:39	05/18/2015 11:08
1603-S-1 S	MS	15051318-001 S	1011	S	55519	122785	122785	05/13/2015	05/18/2015 08:39	05/18/2015 14:26
1603-S-1 SD	MSD	15051318-001 SD	1011	S	55519	122785	122785	05/13/2015	05/18/2015 08:39	05/18/2015 13:57

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122785  
PSS Sample ID: 15051318-001

Matrix: Soil

Prep Method: SW5030  
Date Prep: 05/18/2015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	94		80-125	%	05/18/15 12:44
Dibromofluoromethane	104		85-115	%	05/18/15 12:44
Toluene-D8	101		91-109	%	05/18/15 12:44

**Analytical Method: SW-846 8260 B**

Seq Number: 122748  
PSS Sample ID: 15051318-002

Matrix: Ground Water

Prep Method: SW5030B  
Date Prep: 05/16/2015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	106		81-133	%	05/16/15 18:03
Dibromofluoromethane	102		84-110	%	05/16/15 18:03
Toluene-D8	102		94-109	%	05/16/15 18:03

**Analytical Method: SW-846 8260 B**

Seq Number: 122745  
PSS Sample ID: 15051318-003

Matrix: Soil

Prep Method: SW5030  
Date Prep: 05/17/2015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	95		80-125	%	05/17/15 15:56
Dibromofluoromethane	102		85-115	%	05/17/15 15:56
Toluene-D8	100		91-109	%	05/17/15 15:56

**Analytical Method: SW-846 8260 B**

Seq Number: 122748  
PSS Sample ID: 15051318-004

Matrix: Ground Water

Prep Method: SW5030B  
Date Prep: 05/16/2015

Surrogate	%Rec	Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	106		81-133	%	05/16/15 18:38
Dibromofluoromethane	102		84-110	%	05/16/15 18:38
Toluene-D8	103		94-109	%	05/16/15 18:38

F = RPD exceeded the laboratory control limits  
X = Recovery of MS, MSD or both outside of QC Criteria  
H = Recovery of BS,BSD or both exceeded the laboratory control limits  
L = Recovery of BS,BSD or both below the laboratory control limits

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Kenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 6020 A**

Seq Number: 122784

MB Sample Id: 55484-1-BLK

Matrix: Solid

LCS Sample Id: 55484-1-BKS

Prep Method: SW3050B

Date Prep: 05/15/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Arsenic	<0.4780	19.12	19.34	101	80-120	mg/kg	05/18/15 14:58	
Barium	<2.390	19.12	18.92	99	80-120	mg/kg	05/18/15 14:58	
Cadmium	<2.390	19.12	18.21	95	80-120	mg/kg	05/18/15 14:58	
Chromium	<2.390	19.12	19.82	104	80-120	mg/kg	05/18/15 14:58	
Lead	<2.390	19.12	19.85	104	80-120	mg/kg	05/18/15 14:58	
Mercury	<0.09559	0.4780	0.4875	102	80-120	mg/kg	05/18/15 14:58	
Selenium	<2.390	19.12	17.34	91	80-120	mg/kg	05/18/15 14:58	
Silver	<2.390	19.12	18.69	98	80-120	mg/kg	05/18/15 14:58	



# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122748

MB Sample Id: 55495-1-BLK

Matrix: Water

LCS Sample Id: 55495-1-BKS

Prep Method: SW5030B

Date Prep: 05/16/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<10.00	50.00	50.42	101	53-146	ug/L	05/16/15 09:21	
Benzene	<1.000	50.00	53.83	108	77-122	ug/L	05/16/15 09:21	
Bromochloromethane	<1.000	50.00	48.23	96	71-122	ug/L	05/16/15 09:21	
Bromodichloromethane	<1.000	50.00	52.27	105	76-122	ug/L	05/16/15 09:21	
Bromoform	<5.000	50.00	39.53	79	69-115	ug/L	05/16/15 09:21	
Bromomethane	<1.000	50.00	57.05	114	40-147	ug/L	05/16/15 09:21	
2-Butanone (MEK)	<10.00	50.00	43.90	88	56-133	ug/L	05/16/15 09:21	
Carbon Disulfide	<10.00	50.00	54.86	110	62-134	ug/L	05/16/15 09:21	
Carbon Tetrachloride	<1.000	50.00	51.83	104	74-127	ug/L	05/16/15 09:21	
Chlorobenzene	<1.000	50.00	47.93	96	76-116	ug/L	05/16/15 09:21	
Chloroethane	<1.000	50.00	62.11	124	59-132	ug/L	05/16/15 09:21	
Chloroform	<1.000	50.00	49.39	99	71-118	ug/L	05/16/15 09:21	
Chloromethane	<1.000	50.00	59.71	119	62-131	ug/L	05/16/15 09:21	
Cyclohexane	<10.00	50.00	62.78	126	46-150	ug/L	05/16/15 09:21	
1,2-Dibromo-3-Chloropropane	<10.00	50.00	48.48	97	59-135	ug/L	05/16/15 09:21	
Dibromochloromethane	<1.000	50.00	49.62	99	75-114	ug/L	05/16/15 09:21	
1,2-Dibromoethane (EDB)	<1.000	50.00	48.28	97	78-121	ug/L	05/16/15 09:21	
1,2-Dichlorobenzene	<1.000	50.00	49.72	99	80-122	ug/L	05/16/15 09:21	
1,3-Dichlorobenzene	<1.000	50.00	50.44	101	80-122	ug/L	05/16/15 09:21	
1,4-Dichlorobenzene	<1.000	50.00	46.86	94	77-118	ug/L	05/16/15 09:21	
Dichlorodifluoromethane	<1.000	50.00	53.51	107	54-139	ug/L	05/16/15 09:21	
1,1-Dichloroethane	<1.000	50.00	54.79	110	51-136	ug/L	05/16/15 09:21	
1,2-Dichloroethane	<1.000	50.00	53.78	108	64-130	ug/L	05/16/15 09:21	
1,1-Dichloroethene	<1.000	50.00	61.02	122	59-123	ug/L	05/16/15 09:21	
cis-1,2-Dichloroethene	<1.000	50.00	53.27	107	77-119	ug/L	05/16/15 09:21	
1,2-Dichloropropane	<1.000	50.00	53.53	107	75-125	ug/L	05/16/15 09:21	
cis-1,3-Dichloropropene	<1.000	50.00	50.82	102	74-123	ug/L	05/16/15 09:21	
trans-1,3-Dichloropropene	<1.000	50.00	50.36	101	73-116	ug/L	05/16/15 09:21	
trans-1,2-Dichloroethene	<1.000	50.00	53.00	106	58-134	ug/L	05/16/15 09:21	
Ethylbenzene	<1.000	50.00	51.18	102	79-122	ug/L	05/16/15 09:21	
2-Hexanone	<10.00	50.00	46.93	94	56-134	ug/L	05/16/15 09:21	
Isopropylbenzene	<1.000	50.00	51.19	102	80-128	ug/L	05/16/15 09:21	
Methyl Acetate	<10.00	50.00	60.74	121	47-145	ug/L	05/16/15 09:21	
Methylcyclohexane	<10.00	50.00	57.13	114	61-155	ug/L	05/16/15 09:21	
Methylene Chloride	<1.000	50.00	49.54	99	61-126	ug/L	05/16/15 09:21	
4-Methyl-2-Pentanone	<5.000	50.00	39.59	79	45-145	ug/L	05/16/15 09:21	
Methyl-t-butyl ether	<1.000	50.00	53.39	107	30-168	ug/L	05/16/15 09:21	
Naphthalene	<1.000	50.00	40.32	81	46-154	ug/L	05/16/15 09:21	
Styrene	<1.000	50.00	49.11	98	73-118	ug/L	05/16/15 09:21	
1,1,2,2-Tetrachloroethane	<1.000	50.00	47.85	96	71-126	ug/L	05/16/15 09:21	
Tetrachloroethene	<1.000	50.00	48.99	98	78-113	ug/L	05/16/15 09:21	
Toluene	<1.000	50.00	52.56	105	77-123	ug/L	05/16/15 09:21	
1,2,3-Trichlorobenzene	<1.000	50.00	40.98	82	66-140	ug/L	05/16/15 09:21	
1,2,4-Trichlorobenzene	<1.000	50.00	42.57	85	72-143	ug/L	05/16/15 09:21	
1,1,1-Trichloroethane	<1.000	50.00	53.18	106	66-133	ug/L	05/16/15 09:21	
1,1,2-Trichloroethane	<1.000	50.00	50.13	100	72-128	ug/L	05/16/15 09:21	
Trichloroethene	<1.000	50.00	51.18	102	72-127	ug/L	05/16/15 09:21	
Trichlorofluoromethane	<5.000	50.00	51.99	104	45-130	ug/L	05/16/15 09:21	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<1.000	50.00	55.63	111	56-126	ug/L	05/16/15 09:21	
Vinyl Chloride	<1.000	50.00	65.55	131	64-132	ug/L	05/16/15 09:21	
m,p-Xylenes	<2.000	100	102.6	103	78-119	ug/L	05/16/15 09:21	

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122748

MB Sample Id: 55495-1-BLK

Matrix: Water

LCS Sample Id: 55495-1-BKS

Prep Method: SW5030B

Date Prep: 05/16/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
o-Xylene	<1.000	50.00	49.65	99	79-123	ug/L	05/16/15 09:21	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date	
4-Bromofluorobenzene	111		106		81-133	%	05/16/15 09:21	
Dibromofluoromethane	98		99		84-110	%	05/16/15 09:21	
Toluene-D8	100		102		94-109	%	05/16/15 09:21	



# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122745

MB Sample Id: 55494-1-BLK

Matrix: Solid

LCS Sample Id: 55494-1-BKS

Prep Method: SW5030

Date Prep: 05/17/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<20.00	60.00	54.65	91	24-197	ug/kg	05/17/15 10:58	
Benzene	<5.000	60.00	60.25	100	69-128	ug/kg	05/17/15 10:58	
Bromochloromethane	<5.000	60.00	62.63	104	64-121	ug/kg	05/17/15 10:58	
Bromodichloromethane	<5.000	60.00	61.59	103	60-125	ug/kg	05/17/15 10:58	
Bromoform	<5.000	60.00	66.05	110	46-128	ug/kg	05/17/15 10:58	
Bromomethane	<5.000	60.00	65.97	110	45-199	ug/kg	05/17/15 10:58	
2-Butanone (MEK)	<20.00	60.00	52.98	88	35-173	ug/kg	05/17/15 10:58	
Carbon Disulfide	<10.00	60.00	60.48	101	58-153	ug/kg	05/17/15 10:58	
Carbon Tetrachloride	<5.000	60.00	58.15	97	55-152	ug/kg	05/17/15 10:58	
Chlorobenzene	<5.000	60.00	61.07	102	61-124	ug/kg	05/17/15 10:58	
Chloroethane	<5.000	60.00	64.07	107	59-151	ug/kg	05/17/15 10:58	
Chloroform	<5.000	60.00	58.99	98	65-126	ug/kg	05/17/15 10:58	
Chloromethane	<5.000	60.00	55.14	92	62-143	ug/kg	05/17/15 10:58	
Cyclohexane	<20.00	60.00	55.61	93	50-148	ug/kg	05/17/15 10:58	
1,2-Dibromo-3-Chloropropane	<40.00	60.00	64.59	108	43-149	ug/kg	05/17/15 10:58	
Dibromochloromethane	<5.000	60.00	63.68	106	55-128	ug/kg	05/17/15 10:58	
1,2-Dibromoethane (EDB)	<5.000	60.00	60.91	102	64-123	ug/kg	05/17/15 10:58	
1,2-Dichlorobenzene	<5.000	60.00	63.05	105	38-128	ug/kg	05/17/15 10:58	
1,3-Dichlorobenzene	<5.000	60.00	62.63	104	42-123	ug/kg	05/17/15 10:58	
1,4-Dichlorobenzene	<5.000	60.00	60.74	101	40-121	ug/kg	05/17/15 10:58	
Dichlorodifluoromethane	<5.000	60.00	52.39	87	53-144	ug/kg	05/17/15 10:58	
1,1-Dichloroethane	<5.000	60.00	58.39	97	60-148	ug/kg	05/17/15 10:58	
1,2-Dichloroethane	<5.000	60.00	61.03	102	62-127	ug/kg	05/17/15 10:58	
1,1-Dichloroethene	<5.000	60.00	60.82	101	60-154	ug/kg	05/17/15 10:58	
1,2-Dichloropropane	<5.000	60.00	59.17	99	66-125	ug/kg	05/17/15 10:58	
cis-1,2-Dichloroethene	<5.000	60.00	60.85	101	67-126	ug/kg	05/17/15 10:58	
cis-1,3-Dichloropropene	<5.000	60.00	62.46	104	59-122	ug/kg	05/17/15 10:58	
trans-1,2-Dichloroethene	<5.000	60.00	59.34	99	60-153	ug/kg	05/17/15 10:58	
trans-1,3-Dichloropropene	<5.000	60.00	59.38	99	56-124	ug/kg	05/17/15 10:58	
Ethylbenzene	<5.000	60.00	61.75	103	58-130	ug/kg	05/17/15 10:58	
2-Hexanone	<20.00	60.00	51.32	86	30-175	ug/kg	05/17/15 10:58	
Isopropylbenzene	<5.000	60.00	61.63	103	52-130	ug/kg	05/17/15 10:58	
Methyl Acetate	<20.00	60.00	56.42	94	47-151	ug/kg	05/17/15 10:58	
Methylcyclohexane	<20.00	60.00	60.58	101	41-142	ug/kg	05/17/15 10:58	
Methylene Chloride	<5.000	60.00	58.75	98	56-140	ug/kg	05/17/15 10:58	
4-Methyl-2-Pentanone	<20.00	60.00	53.30	89	22-173	ug/kg	05/17/15 10:58	
Methyl-t-butyl ether	<5.000	60.00	56.27	94	59-133	ug/kg	05/17/15 10:58	
Naphthalene	<5.000	60.00	69.96	117	30-155	ug/kg	05/17/15 10:58	
Styrene	<5.000	60.00	61.18	102	54-123	ug/kg	05/17/15 10:58	
1,1,2,2-Tetrachloroethane	<5.000	60.00	58.89	98	50-134	ug/kg	05/17/15 10:58	
Tetrachloroethene	<5.000	60.00	63.92	107	55-145	ug/kg	05/17/15 10:58	
Toluene	<5.000	60.00	60.55	101	66-127	ug/kg	05/17/15 10:58	
1,2,3-Trichlorobenzene	<5.000	60.00	71.20	119	15-144	ug/kg	05/17/15 10:58	
1,2,4-Trichlorobenzene	<5.000	60.00	70.48	117	14-143	ug/kg	05/17/15 10:58	
1,1,1-Trichloroethane	<5.000	60.00	56.62	94	60-145	ug/kg	05/17/15 10:58	
1,1,2-Trichloroethane	<5.000	60.00	60.56	101	65-120	ug/kg	05/17/15 10:58	
Trichloroethene	<5.000	60.00	61.27	102	68-130	ug/kg	05/17/15 10:58	
Trichlorofluoromethane	<5.000	60.00	63.27	105	54-175	ug/kg	05/17/15 10:58	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<5.000	60.00	59.33	99	50-162	ug/kg	05/17/15 10:58	
Vinyl Chloride	<5.000	60.00	58.04	97	61-156	ug/kg	05/17/15 10:58	
m,p-Xylenes	<10.00	120	123.9	103	60-131	ug/kg	05/17/15 10:58	



# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122745

MB Sample Id: 55494-1-BLK

Matrix: Solid

LCS Sample Id: 55494-1-BKS

Prep Method: SW5030

Date Prep: 05/17/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
o-Xylene	<5.000	60.00	63.59	106	60-126	ug/kg	05/17/15 10:58	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		97		80-125	%	05/17/15 10:58
Dibromofluoromethane	101		102		85-115	%	05/17/15 10:58
Toluene-D8	99		99		91-109	%	05/17/15 10:58

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Kenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122785

MB Sample Id: 55519-1-BLK

Matrix: Solid

LCS Sample Id: 55519-1-BKS

Prep Method: SW5030

Date Prep: 05/18/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<20.00	60.00	71.83	120	24-197	ug/kg	05/18/15 11:37	
Benzene	<5.000	60.00	59.55	99	69-128	ug/kg	05/18/15 11:37	
Bromochloromethane	<5.000	60.00	62.66	104	64-121	ug/kg	05/18/15 11:37	
Bromodichloromethane	<5.000	60.00	61.38	102	60-125	ug/kg	05/18/15 11:37	
Bromoform	<5.000	60.00	66.31	111	46-128	ug/kg	05/18/15 11:37	
Bromomethane	<5.000	60.00	66.40	111	45-199	ug/kg	05/18/15 11:37	
2-Butanone (MEK)	<20.00	60.00	73.47	122	35-173	ug/kg	05/18/15 11:37	
Carbon Disulfide	<10.00	60.00	59.27	99	58-153	ug/kg	05/18/15 11:37	
Carbon Tetrachloride	<5.000	60.00	57.64	96	55-152	ug/kg	05/18/15 11:37	
Chlorobenzene	<5.000	60.00	59.16	99	61-124	ug/kg	05/18/15 11:37	
Chloroethane	<5.000	60.00	64.23	107	59-151	ug/kg	05/18/15 11:37	
Chloroform	<5.000	60.00	58.52	98	65-126	ug/kg	05/18/15 11:37	
Chloromethane	<5.000	60.00	55.95	93	62-143	ug/kg	05/18/15 11:37	
Cyclohexane	<20.00	60.00	56.17	94	50-148	ug/kg	05/18/15 11:37	
1,2-Dibromo-3-Chloropropane	<40.00	60.00	66.96	112	43-149	ug/kg	05/18/15 11:37	
Dibromochloromethane	<5.000	60.00	61.99	103	55-128	ug/kg	05/18/15 11:37	
1,2-Dibromoethane (EDB)	<5.000	60.00	60.75	101	64-123	ug/kg	05/18/15 11:37	
1,2-Dichlorobenzene	<5.000	60.00	62.33	104	38-128	ug/kg	05/18/15 11:37	
1,3-Dichlorobenzene	<5.000	60.00	60.68	101	42-123	ug/kg	05/18/15 11:37	
1,4-Dichlorobenzene	<5.000	60.00	58.95	98	40-121	ug/kg	05/18/15 11:37	
Dichlorodifluoromethane	<5.000	60.00	58.68	98	53-144	ug/kg	05/18/15 11:37	
1,1-Dichloroethane	<5.000	60.00	58.43	97	60-148	ug/kg	05/18/15 11:37	
1,2-Dichloroethane	<5.000	60.00	60.00	100	62-127	ug/kg	05/18/15 11:37	
1,1-Dichloroethene	<5.000	60.00	61.94	103	60-154	ug/kg	05/18/15 11:37	
1,2-Dichloropropane	<5.000	60.00	57.96	97	66-125	ug/kg	05/18/15 11:37	
cis-1,2-Dichloroethene	<5.000	60.00	60.84	101	67-126	ug/kg	05/18/15 11:37	
cis-1,3-Dichloropropene	<5.000	60.00	60.83	101	59-122	ug/kg	05/18/15 11:37	
trans-1,2-Dichloroethene	<5.000	60.00	59.50	99	60-153	ug/kg	05/18/15 11:37	
trans-1,3-Dichloropropene	<5.000	60.00	58.68	98	56-124	ug/kg	05/18/15 11:37	
Ethylbenzene	<5.000	60.00	60.22	100	58-130	ug/kg	05/18/15 11:37	
2-Hexanone	<20.00	60.00	70.60	118	30-175	ug/kg	05/18/15 11:37	
Isopropylbenzene	<5.000	60.00	59.38	99	52-130	ug/kg	05/18/15 11:37	
Methyl Acetate	<20.00	60.00	61.69	103	47-151	ug/kg	05/18/15 11:37	
Methylcyclohexane	<20.00	60.00	61.64	103	41-142	ug/kg	05/18/15 11:37	
Methylene Chloride	<5.000	60.00	56.73	95	56-140	ug/kg	05/18/15 11:37	
4-Methyl-2-Pentanone	<20.00	60.00	74.37	124	22-173	ug/kg	05/18/15 11:37	
Methyl-t-butyl ether	<5.000	60.00	61.05	102	59-133	ug/kg	05/18/15 11:37	
Naphthalene	<5.000	60.00	68.20	114	30-155	ug/kg	05/18/15 11:37	
Styrene	<5.000	60.00	59.80	100	54-123	ug/kg	05/18/15 11:37	
1,1,2,2-Tetrachloroethane	<5.000	60.00	59.22	99	50-134	ug/kg	05/18/15 11:37	
Tetrachloroethene	<5.000	60.00	64.78	108	55-145	ug/kg	05/18/15 11:37	
Toluene	<5.000	60.00	59.70	100	66-127	ug/kg	05/18/15 11:37	
1,2,3-Trichlorobenzene	<5.000	60.00	70.23	117	15-144	ug/kg	05/18/15 11:37	
1,2,4-Trichlorobenzene	<5.000	60.00	68.71	115	14-143	ug/kg	05/18/15 11:37	
1,1,1-Trichloroethane	<5.000	60.00	56.23	94	60-145	ug/kg	05/18/15 11:37	
1,1,2-Trichloroethane	<5.000	60.00	60.94	102	65-120	ug/kg	05/18/15 11:37	
Trichloroethene	<5.000	60.00	61.10	102	68-130	ug/kg	05/18/15 11:37	
Trichlorofluoromethane	<5.000	60.00	64.84	108	54-175	ug/kg	05/18/15 11:37	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<5.000	60.00	60.53	101	50-162	ug/kg	05/18/15 11:37	
Vinyl Chloride	<5.000	60.00	58.92	98	61-156	ug/kg	05/18/15 11:37	
m,p-Xylenes	<10.00	120	118.6	99	60-131	ug/kg	05/18/15 11:37	

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122785

MB Sample Id: 55519-1-BLK

Matrix: Solid

LCS Sample Id: 55519-1-BKS

Prep Method: SW5030

Date Prep: 05/18/15

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
o-Xylene	<5.000	60.00	60.91	102	60-126	ug/kg	05/18/15 11:37	
Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	Limits	Units	Analysis Date	
4-Bromofluorobenzene	93		97		80-125	%	05/18/15 11:37	
Dibromofluoromethane	102		102		85-115	%	05/18/15 11:37	
Toluene-D8	102		100		91-109	%	05/18/15 11:37	



# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122785

Parent Sample Id: 15051318-001

Matrix: Soil

MS Sample Id: 15051318-001 S

Prep Method: SW5030

Date Prep: 05/18/15

MSD Sample Id: 15051318-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<25.41	76.22	106.8	140	90.31	116	32-162	17	30	ug/kg	05/18/15 14:26	
Benzene	<6.352	76.22	61.14	80	53.34	69	42-125	14	30	ug/kg	05/18/15 14:26	
Bromochloromethane	<6.352	76.22	65.50	86	58.01	75	36-123	12	30	ug/kg	05/18/15 14:26	
Bromodichloromethane	<6.352	76.22	62.92	83	54.09	70	36-127	15	30	ug/kg	05/18/15 14:26	
Bromoform	<6.352	76.22	65.75	86	55.05	71	30-127	18	30	ug/kg	05/18/15 14:26	
Bromomethane	<6.352	76.22	73.83	97	66.91	86	33-149	10	30	ug/kg	05/18/15 14:26	
2-Butanone (MEK)	<25.41	76.22	99.40	130	75.12	97	35-153	28	30	ug/kg	05/18/15 14:26	
Carbon Disulfide	<12.70	76.22	56.12	74	47.08	61	26-143	18	30	ug/kg	05/18/15 14:26	
Carbon Tetrachloride	<6.352	76.22	58.70	77	48.84	63	24-139	18	30	ug/kg	05/18/15 14:26	
Chlorobenzene	<6.352	76.22	52.31	69	43.57	56	30-125	18	30	ug/kg	05/18/15 14:26	
Chloroethane	<6.352	76.22	72.62	95	64.80	83	36-155	11	30	ug/kg	05/18/15 14:26	
Chloroform	<6.352	76.22	62.04	81	54.87	71	39-125	12	30	ug/kg	05/18/15 14:26	
Chloromethane	<6.352	76.22	64.79	85	59.68	77	42-133	8	30	ug/kg	05/18/15 14:26	
Cyclohexane	<25.41	76.22	43.72	57	36.54	47	34-133	18	30	ug/kg	05/18/15 14:26	
1,2-Dibromo-3-Chloropropane	<50.81	76.22	64.08	84	53.77	69	42-142	17	30	ug/kg	05/18/15 14:26	
Dibromochloromethane	<6.352	76.22	63.40	83	52.21	67	36-123	19	30	ug/kg	05/18/15 14:26	
1,2-Dibromoethane (EDB)	<6.352	76.22	60.95	80	52.01	67	42-121	16	30	ug/kg	05/18/15 14:26	
1,2-Dichlorobenzene	<6.352	76.22	44.66	59	36.37	47	34-118	20	30	ug/kg	05/18/15 14:26	
1,3-Dichlorobenzene	<6.352	76.22	41.30	54	33.07	43	19-125	22	30	ug/kg	05/18/15 14:26	
1,4-Dichlorobenzene	<6.352	76.22	41.15	54	33.27	43	27-120	21	30	ug/kg	05/18/15 14:26	
Dichlorodifluoromethane	<6.352	76.22	65.60	86	57.04	73	22-158	14	30	ug/kg	05/18/15 14:26	
1,1-Dichloroethane	<6.352	76.22	63.12	83	54.40	70	37-136	15	30	ug/kg	05/18/15 14:26	
1,2-Dichloroethane	<6.352	76.22	64.68	85	56.39	73	37-130	14	30	ug/kg	05/18/15 14:26	
1,1-Dichloroethene	<6.352	76.22	66.84	88	57.82	74	39-139	14	30	ug/kg	05/18/15 14:26	
1,2-Dichloropropane	<6.352	76.22	60.04	79	51.64	67	41-122	15	30	ug/kg	05/18/15 14:26	
cis-1,2-Dichloroethene	<6.352	76.22	62.70	82	54.79	71	41-122	13	30	ug/kg	05/18/15 14:26	
cis-1,3-Dichloropropene	<6.352	76.22	61.50	81	51.11	66	34-120	18	30	ug/kg	05/18/15 14:26	
trans-1,2-Dichloroethene	<6.352	76.22	62.78	82	53.95	69	38-137	15	30	ug/kg	05/18/15 14:26	
trans-1,3-Dichloropropene	<6.352	76.22	58.30	76	47.02	61	30-126	21	30	ug/kg	05/18/15 14:26	
Ethylbenzene	<6.352	76.22	50.65	66	41.77	54	37-132	19	30	ug/kg	05/18/15 14:26	
2-Hexanone	<25.41	76.22	91.53	120	70.55	91	42-131	26	30	ug/kg	05/18/15 14:26	
Isopropylbenzene	<6.352	76.22	41.03	54	34.27	44	17-140	18	30	ug/kg	05/18/15 14:26	
Methyl Acetate	<25.41	76.22	81.17	106	73.37	95	27-159	10	30	ug/kg	05/18/15 14:26	
Methylcyclohexane	<25.41	76.22	31.82	42	27.80	36	15-135	13	30	ug/kg	05/18/15 14:26	
Methylene Chloride	19.92	76.22	65.04	59	74.86	71	35-133	14	30	ug/kg	05/18/15 14:26	
4-Methyl-2-Pentanone	<25.41	76.22	92.31	121	71.07	92	30-130	26	30	ug/kg	05/18/15 14:26	
Methyl-t-butyl ether	<6.352	76.22	66.97	88	58.15	75	48-123	14	30	ug/kg	05/18/15 14:26	
Naphthalene	<6.352	76.22	45.40	60	37.16	48	8-152	20	30	ug/kg	05/18/15 14:26	
Styrene	<6.352	76.22	52.06	68	42.39	55	26-132	20	30	ug/kg	05/18/15 14:26	
1,1,2,2-Tetrachloroethane	<6.352	76.22	58.94	77	49.62	64	42-127	17	30	ug/kg	05/18/15 14:26	
Tetrachloroethene	<6.352	76.22	53.82	71	44.24	57	22-136	20	30	ug/kg	05/18/15 14:26	
Toluene	<6.352	76.22	58.24	76	49.46	64	31-135	16	30	ug/kg	05/18/15 14:26	
1,2,3-Trichlorobenzene	<6.352	76.22	29.28	38	25.05	32	17-136	16	30	ug/kg	05/18/15 14:26	
1,2,4-Trichlorobenzene	<6.352	76.22	28.05	37	23.51	30	25-123	18	30	ug/kg	05/18/15 14:26	
1,1,1-Trichloroethane	<6.352	76.22	60.28	79	49.60	64	32-140	19	30	ug/kg	05/18/15 14:26	
1,1,2-Trichloroethane	<6.352	76.22	64.01	84	54.70	70	43-122	16	30	ug/kg	05/18/15 14:26	
Trichloroethene	<6.352	76.22	59.04	77	50.40	65	39-127	16	30	ug/kg	05/18/15 14:26	
Trichlorofluoromethane	<6.352	76.22	70.87	93	59.89	77	30-155	17	30	ug/kg	05/18/15 14:26	
1,1,2-Trichloro-1,2,2-Trifluoroethane	<6.352	76.22	59.29	78	50.16	65	28-146	17	30	ug/kg	05/18/15 14:26	
Vinyl Chloride	<6.352	76.22	67.04	88	60.66	78	37-148	10	30	ug/kg	05/18/15 14:26	
m,p-Xylenes	<12.70	152.4	100.1	66	83.33	54	36-127	18	30	ug/kg	05/18/15 14:26	

# PHASE SEPARATION SCIENCE, INC.

## QC Summary 15051318

Cenken Group, LLC  
1600 Good Hope Rd, SE DC

**Analytical Method: SW-846 8260 B**

Seq Number: 122785

Parent Sample Id: 15051318-001

Matrix: Soil

MS Sample Id: 15051318-001 S

Prep Method: SW5030

Date Prep: 05/18/15

MSD Sample Id: 15051318-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
o-Xylene	<6.352	76.22	52.17	68	43.85	56	33-132	17	30	ug/kg	05/18/15 14:26	
<b>Surrogate</b>			<b>MS Result</b>	<b>MS Flag</b>	<b>MSD Result</b>	<b>MSD Flag</b>	<b>Limits</b>			<b>Units</b>	<b>Analysis Date</b>	
4-Bromofluorobenzene			94		94		80-125			%	05/18/15 14:26	
Dibromofluoromethane			105		106		85-115			%	05/18/15 14:26	
Toluene-D8			100		100		91-109			%	05/18/15 14:26	

F = RPD exceeded the laboratory control limits

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

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

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





# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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

## PHASE SEPARATION SCIENCE, INC.

**1** \*CLIENT: CENKEH \*OFFICE LOC: BELTSVILLE, MD PSS Work Order #: 15051318 PAGE 1 OF 1

\*PROJECT MGR: JOKE S ANDERSON \*PHONE NO.: (302) 740-5261 Matrix Codes: DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe

EMAIL: tradeside@centek.com \*PROJECT NAME: 600 Green Hope Rd, Sec DC PROJECT NO.: 15-007

SITE LOCATION: 1512, 1603 Green Hope Rd, Sec DC

SAMPLER(S): JOKE S ANDERSON DW CERT NO.: \_\_\_\_\_

LAB NO.	*SAMPLE IDENTIFICATION	*DATE (SAMPLED)	*TIME (SAMPLED)	MATRIX (See Codes)	CONTAINER NO.	SAMPLE TYPE	PRESERVATIVES USED	ANALYSIS METHOD REQUIRED	REMARKS											
									C=COMP	G=GRAB	ANALYSIS METHOD REQUIRED	REMARKS								
	1603-S-1	5/18/15	8:30	S	242	C	X	X	VOL: 8060											
	1603-W-1	5/18/15	9:45	GW	240	G	X	X	REUSE WATER											
	1512-S-1	5/18/15	11:10	GW	940 312	C	X	X												
	1512-W-1	5/18/15	12:05	GW	940 312	G	X	X												

**2** \*Requested TAT (One TAT per COC):  
 5-Day  3-Day  2-Day  Other  
 Next Day  Emergency  Other

\*Data Deliverables Required:  
 COA  QC  SUMM  CLP  LIKE  OTHER

\*Ice Present: Yes Temp: 5°C

\*Shipping Carrier: client

\*Special Instructions: \_\_\_\_\_

**3** DW COMPLIANCE? YES  NO  EDD FORMAT TYPE: \_\_\_\_\_

STATE RESULTS REPORTED TO:  
 MD  DE  PA  VA  WV  OTHER

**4** Relinquished By: (1) [Signature] Date: 5/18/15 Time: 7:50 Received By: [Signature]

Relinquished By: (2) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

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

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

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • 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. \* = REQUIRED





# Phase Separation Science, Inc

## Sample Receipt Checklist

<b>Work Order #</b>	15051318	<b>Received By</b>	Cathy Thompson
<b>Client Name</b>	Kenken Group, LLC	<b>Date Received</b>	05/13/2015 05:05:00 PM
<b>Project Name</b>	1600 Good Hope Rd, SE DC	<b>Delivered By</b>	Client
<b>Project Number</b>	15-007	<b>Tracking No</b>	Not Applicable
<b>Disposal Date</b>	06/17/2015	<b>Logged In By</b>	Cathy Thompson

### Shipping Container(s)

No. of Coolers 1

Custody Seal(s) Intact? N/A

Seal(s) Signed / Dated? N/A

Ice Present

Temp (deg C) 5

Temp Blank Present No

### Documentation

COC agrees with sample labels? Yes

Chain of Custody Yes

Sampler Name Tokes Adesida

MD DW Cert. No. N/A

### Sample Container

Appropriate for Specified Analysis? Yes

Intact? Yes

Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Samples Received 4

Total No. of Containers Received 28

### Preservation

Metals (pH<2) N/A

Cyanides (pH>12) N/A

Sulfide (pH>9) N/A

TOC, COD, Phenols (pH<2) N/A

TOX, TKN, NH3, Total Phos (pH<2) N/A

VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2) Yes

Do VOA vials have zero headspace? Yes

624 VOC (Rcvd at least one unpreserved VOA vial) N/A

### 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 which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Cathy Thompson

Date: 05/13/2015

PM Review and Approval:

Shirley Rivera

Date: 05/14/2015

