TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-70758-2
Client Project/Site: Hercules Hattiesburg APIX 7/26/11

For:
Ashland Inc.
Ashland Hercules Research Center
500 Hercules Rd Bldg 8139
Wilmington, Delaware 19808

Attn: Timothy Hassett

Authorized for release by:
08/10/2011 06:12:29 PM

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cc: Craig Derouen Chris Waters Charlie Jordan

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Job ID: 680-70758-2

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-70758-2

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Comments
No additional comments.

Sample Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-70758-8	ASH-MW21-072611	Water	07/26/11 15:03	07/27/11 09:20

Method Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Client Sample ID: ASH-MW21-072611
Date Collected: 07/26/11 15:03
Date Received: 07/27/11 09:20

Lab Sample ID: 680-70758-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1300		1300		ug/L			07/30/11 07:05	50
Acetonitrile	<2000		2000		ug/L			07/30/11 07:05	50
Acrolein	<1000		1000		ug/L			07/30/11 07:05	50
Acrylonitrile	<1000		1000		ug/L			07/30/11 07:05	50
Benzene	**3200**		50		ug/L			07/30/11 07:05	50
Dichlorobromomethane	<50		50		ug/L			07/30/11 07:05	50
Bromoform	<50		50		ug/L			07/30/11 07:05	50
Bromomethane	<50		50		ug/L			07/30/11 07:05	50
2-Butanone (MEK)	<500		500		ug/L			07/30/11 07:05	50
Carbon disulfide	<100		100		ug/L			07/30/11 07:05	50
Carbon tetrachloride	<50		50		ug/L			07/30/11 07:05	50
Chlorobenzene	**150**		50		ug/L			07/30/11 07:05	50
2-Chloro-1,3-butadiene	<50		50		ug/L			07/30/11 07:05	50
Chloroethane	<50		50		ug/L			07/30/11 07:05	50
Chloroform	**4300**		50		ug/L			07/30/11 07:05	50
Chloromethane	<50		50		ug/L			07/30/11 07:05	50
3-Chloro-1-propene	<50		50		ug/L			07/30/11 07:05	50
Chlorodibromomethane	<50		50		ug/L			07/30/11 07:05	50
1,2-Dibromo-3-Chloropropane	<50		50		ug/L			07/30/11 07:05	50
Ethylene Dibromide	<50		50		ug/L			07/30/11 07:05	50
Dibromomethane	<50		50		ug/L			07/30/11 07:05	50
trans-1,4-Dichloro-2-butene	<100		100		ug/L			07/30/11 07:05	50
Dichlorodifluoromethane	<50		50		ug/L			07/30/11 07:05	50
1,1-Dichloroethane	<50		50		ug/L			07/30/11 07:05	50
1,2-Dichloroethane	<50		50		ug/L			07/30/11 07:05	50
cis-1,2-Dichloroethene	<50		50		ug/L			07/30/11 07:05	50
trans-1,2-Dichloroethene	<50		50		ug/L			07/30/11 07:05	50
1,1-Dichloroethene	<50		50		ug/L			07/30/11 07:05	50
1,2-Dichloropropane	<50		50		ug/L			07/30/11 07:05	50
cis-1,3-Dichloropropene	<50		50		ug/L			07/30/11 07:05	50
trans-1,3-Dichloropropene	<50		50		ug/L			07/30/11 07:05	50
Ethylbenzene	<50		50		ug/L			07/30/11 07:05	50
Ethyl methacrylate	<50		50		ug/L			07/30/11 07:05	50
2-Hexanone	<500		500		ug/L			07/30/11 07:05	50
Iodomethane	<250		250		ug/L			07/30/11 07:05	50
Isobutyl alcohol	<2000		2000		ug/L			07/30/11 07:05	50
Methacrylonitrile	<1000		1000		ug/L			07/30/11 07:05	50
Methylene Chloride	<250		250		ug/L			07/30/11 07:05	50
Methyl methacrylate	<50		50		ug/L			07/30/11 07:05	50
4-Methyl-2-pentanone (MIBK)	<500		500		ug/L			07/30/11 07:05	50
Pentachloroethane	<250		250		ug/L			07/30/11 07:05	50
Propionitrile	<1000		1000		ug/L			07/30/11 07:05	50
Styrene	<50		50		ug/L			07/30/11 07:05	50
1,1,1,2-Tetrachloroethane	<50		50		ug/L			07/30/11 07:05	50
1,1,2,2-Tetrachloroethane	<50		50		ug/L			07/30/11 07:05	50
Tetrachloroethene	<50		50		ug/L			07/30/11 07:05	50
Toluene	**2600**		50		ug/L			07/30/11 07:05	50
1,1,1-Trichloroethane	<50		50		ug/L			07/30/11 07:05	50
1,1,2-Trichloroethane	<50		50		ug/L			07/30/11 07:05	50
Trichloroethene	<50		50		ug/L			07/30/11 07:05	50

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Client Sample ID: ASH-MW21-072611
Date Collected: 07/26/11 15:03
Date Received: 07/27/11 09:20

Lab Sample ID: 680-70758-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<50		50		ug/L			07/30/11 07:05	50
1,2,3-Trichloropropane	<50		50		ug/L			07/30/11 07:05	50
Vinyl acetate	<100		100		ug/L			07/30/11 07:05	50
Vinyl chloride	<50		50		ug/L			07/30/11 07:05	50
Xylenes, Total	<100		100		ug/L			07/30/11 07:05	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*70 - 130*		*07/30/11 07:05*	*50*
Dibromofluoromethane	*107*		*70 - 130*		*07/30/11 07:05*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/30/11 07:05*	*50*

Surrogate Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (70-130)	DBFM (70-130)	TOL (70-130)
680-70758-8	ASH-MW21-072611	92	107	100
LCS 680-210543/4	Lab Control Sample	104	108	101
LCSD 680-210543/5	Lab Control Sample Dup	102	103	101
MB 680-210543/7	Method Blank	93	107	100

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-210543/7
Matrix: Water
Analysis Batch: 210543

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25		ug/L			07/30/11 00:43	1
Acetonitrile	<40		40		ug/L			07/30/11 00:43	1
Acrolein	<20		20		ug/L			07/30/11 00:43	1
Acrylonitrile	<20		20		ug/L			07/30/11 00:43	1
Benzene	<1.0		1.0		ug/L			07/30/11 00:43	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/30/11 00:43	1
Bromoform	<1.0		1.0		ug/L			07/30/11 00:43	1
Bromomethane	<1.0		1.0		ug/L			07/30/11 00:43	1
2-Butanone (MEK)	<10		10		ug/L			07/30/11 00:43	1
Carbon disulfide	<2.0		2.0		ug/L			07/30/11 00:43	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/30/11 00:43	1
Chlorobenzene	<1.0		1.0		ug/L			07/30/11 00:43	1
2-Chloro-1,3-butadiene	<1.0		1.0		ug/L			07/30/11 00:43	1
Chloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1
Chloroform	<1.0		1.0		ug/L			07/30/11 00:43	1
Chloromethane	<1.0		1.0		ug/L			07/30/11 00:43	1
3-Chloro-1-propene	<1.0		1.0		ug/L			07/30/11 00:43	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/30/11 00:43	1
1,2-Dibromo-3-Chloropropane	<1.0		1.0		ug/L			07/30/11 00:43	1
Ethylene Dibromide	<1.0		1.0		ug/L			07/30/11 00:43	1
Dibromomethane	<1.0		1.0		ug/L			07/30/11 00:43	1
trans-1,4-Dichloro-2-butene	<2.0		2.0		ug/L			07/30/11 00:43	1
Dichlorodifluoromethane	<1.0		1.0		ug/L			07/30/11 00:43	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/30/11 00:43	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/30/11 00:43	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/30/11 00:43	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/30/11 00:43	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/30/11 00:43	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/30/11 00:43	1
Ethylbenzene	<1.0		1.0		ug/L			07/30/11 00:43	1
Ethyl methacrylate	<1.0		1.0		ug/L			07/30/11 00:43	1
2-Hexanone	<10		10		ug/L			07/30/11 00:43	1
Iodomethane	<5.0		5.0		ug/L			07/30/11 00:43	1
Isobutyl alcohol	<40		40		ug/L			07/30/11 00:43	1
Methacrylonitrile	<20		20		ug/L			07/30/11 00:43	1
Methylene Chloride	<5.0		5.0		ug/L			07/30/11 00:43	1
Methyl methacrylate	<1.0		1.0		ug/L			07/30/11 00:43	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/30/11 00:43	1
Pentachloroethane	<5.0		5.0		ug/L			07/30/11 00:43	1
Propionitrile	<20		20		ug/L			07/30/11 00:43	1
Styrene	<1.0		1.0		ug/L			07/30/11 00:43	1
1,1,1,2-Tetrachloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1
Tetrachloroethene	<1.0		1.0		ug/L			07/30/11 00:43	1
Toluene	<1.0		1.0		ug/L			07/30/11 00:43	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/30/11 00:43	1

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

Lab Sample ID: MB 680-210543/7
Matrix: Water
Analysis Batch: 210543

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0		ug/L			07/30/11 00:43	1
Trichlorofluoromethane	<1.0		1.0		ug/L			07/30/11 00:43	1
1,2,3-Trichloropropane	<1.0		1.0		ug/L			07/30/11 00:43	1
Vinyl acetate	<2.0		2.0		ug/L			07/30/11 00:43	1
Vinyl chloride	<1.0		1.0		ug/L			07/30/11 00:43	1
Xylenes, Total	<2.0		2.0		ug/L			07/30/11 00:43	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*70 - 130*		*07/30/11 00:43*	*1*
Dibromofluoromethane	*107*		*70 - 130*		*07/30/11 00:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/30/11 00:43*	*1*

Lab Sample ID: LCS 680-210543/4
Matrix: Water
Analysis Batch: 210543

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	129		ug/L		129	26 - 180
Benzene	50.0	50.0		ug/L		100	70 - 130
Dichlorobromomethane	50.0	46.3		ug/L		93	70 - 130
Bromoform	50.0	38.1		ug/L		76	70 - 130
Bromomethane	50.0	25.4		ug/L		51	23 - 165
2-Butanone (MEK)	100	111		ug/L		111	49 - 172
Carbon disulfide	50.0	48.0		ug/L		96	54 - 132
Carbon tetrachloride	50.0	41.3		ug/L		83	70 - 130
Chlorobenzene	50.0	52.5		ug/L		105	70 - 130
Chloroethane	50.0	50.0		ug/L		100	56 - 152
Chloroform	50.0	52.0		ug/L		104	70 - 130
Chloromethane	50.0	50.7		ug/L		101	70 - 130
Chlorodibromomethane	50.0	43.3		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.0		ug/L		82	70 - 130
Ethylene Dibromide	50.0	49.6		ug/L		99	70 - 130
Dibromomethane	50.0	51.6		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	49.9		ug/L		100	44 - 146
1,1-Dichloroethane	50.0	49.8		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	52.0		ug/L		104	66 - 131
1,2-Dichloropropane	50.0	49.4		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	70 - 130
trans-1,3-Dichloropropene	50.0	43.9		ug/L		88	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
2-Hexanone	100	114		ug/L		114	42 - 185
Methylene Chloride	50.0	53.2		ug/L		106	67 - 130
4-Methyl-2-pentanone (MIBK)	100	94.4		ug/L		94	70 - 130
Styrene	50.0	54.3		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	50.0	46.0		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	70 - 130

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

Lab Sample ID: LCS 680-210543/4
Matrix: Water
Analysis Batch: 210543

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Tetrachloroethene	50.0	54.7		ug/L		109	70 - 130
Toluene	50.0	48.5		ug/L		97	70 - 130
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	70 - 130
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	70 - 130
Trichloroethene	50.0	53.2		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	52.1		ug/L		104	55 - 156
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	70 - 130
Vinyl acetate	100	95.3		ug/L		95	60 - 176
Vinyl chloride	50.0	50.8		ug/L		102	67 - 134
Xylenes, Total	150	159		ug/L		106	70 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-210543/5
Matrix: Water
Analysis Batch: 210543

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	100	131		ug/L		131	26 - 180	1	50
Benzene	50.0	48.4		ug/L		97	70 - 130	3	30
Dichlorobromomethane	50.0	46.6		ug/L		93	70 - 130	1	30
Bromoform	50.0	38.7		ug/L		77	70 - 130	2	30
Bromomethane	50.0	24.5		ug/L		49	23 - 165	4	50
2-Butanone (MEK)	100	111		ug/L		111	49 - 172	0	30
Carbon disulfide	50.0	44.8		ug/L		90	54 - 132	7	30
Carbon tetrachloride	50.0	40.2		ug/L		80	70 - 130	3	30
Chlorobenzene	50.0	51.2		ug/L		102	70 - 130	3	30
Chloroethane	50.0	38.6		ug/L		77	56 - 152	26	40
Chloroform	50.0	49.8		ug/L		100	70 - 130	4	30
Chloromethane	50.0	48.1		ug/L		96	70 - 130	5	30
Chlorodibromomethane	50.0	42.6		ug/L		85	70 - 130	2	50
1,2-Dibromo-3-Chloropropane	50.0	39.3		ug/L		79	70 - 130	4	50
Ethylene Dibromide	50.0	52.4		ug/L		105	70 - 130	6	30
Dibromomethane	50.0	52.1		ug/L		104	70 - 130	1	30
Dichlorodifluoromethane	50.0	46.8		ug/L		94	44 - 146	6	50
1,1-Dichloroethane	50.0	46.8		ug/L		94	70 - 130	6	30
1,2-Dichloroethane	50.0	50.8		ug/L		102	70 - 130	0	30
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130	4	30
trans-1,2-Dichloroethene	50.0	48.8		ug/L		98	70 - 130	5	30
1,1-Dichloroethene	50.0	49.4		ug/L		99	66 - 131	5	30
1,2-Dichloropropane	50.0	48.7		ug/L		97	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	46.5		ug/L		93	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	45.5		ug/L		91	70 - 130	4	50
Ethylbenzene	50.0	48.0		ug/L		96	70 - 130	6	30
2-Hexanone	100	112		ug/L		112	42 - 185	2	30
Methylene Chloride	50.0	50.8		ug/L		102	67 - 130	5	30

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

Lab Sample ID: LCSD 680-210543/5
Matrix: Water
Analysis Batch: 210543

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)			100	98.5		ug/L		98	70 - 130	4	30
Styrene			50.0	53.6		ug/L		107	70 - 130	1	30
1,1,1,2-Tetrachloroethane			50.0	44.8		ug/L		90	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	50.9		ug/L		102	70 - 130	1	30
Tetrachloroethene			50.0	51.6		ug/L		103	70 - 130	6	30
Toluene			50.0	49.1		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane			50.0	46.7		ug/L		93	70 - 130	3	30
1,1,2-Trichloroethane			50.0	51.6		ug/L		103	70 - 130	6	30
Trichloroethene			50.0	50.5		ug/L		101	70 - 130	5	30
Trichlorofluoromethane			50.0	48.3		ug/L		97	55 - 156	8	30
1,2,3-Trichloropropane			50.0	53.3		ug/L		107	70 - 130	0	30
Vinyl acetate			100	94.3		ug/L		94	60 - 176	1	30
Vinyl chloride			50.0	47.8		ug/L		96	67 - 134	6	30
Xylenes, Total			150	153		ug/L		102	70 - 130	4	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*70 - 130*
Dibromofluoromethane	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Association Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

GC/MS VOA

Analysis Batch: 210543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-210543/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-210543/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-210543/7	Method Blank	Total/NA	Water	8260B	
680-70758-8	ASH-MW21-072611	Total/NA	Water	8260B	

Lab Chronicle

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Client Sample ID: ASH-MW21-072611
Date Collected: 07/26/11 15:03
Date Received: 07/27/11 09:20

Lab Sample ID: 680-70758-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	210543	07/30/11 07:05	AJMC	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☒ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Hercules Hattiesburg AP96M	PROJECT NO.: 11073	PROJECT LOCATION (STATE): MS
TAL (LAB) PROJECT MANAGER: Lidya Gulizia	P.O. NUMBER: —	CONTRACT NO.: —
CLIENT (SITE) PM: Tim Hassett	CLIENT PHONE: 302-995-3456	CLIENT FAX: 995-3456
CLIENT NAME: Ashland Chemical	CLIENT E-MAIL: tdhassett@ashland.com	
CLIENT ADDRESS: 500 Hercules Road, Wilmington, DE, 19808-1599		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ◯ DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ⊗ DATE DUE 5 day TAT

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 8

Matrix type columns: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

Required analysis (preservative):
1. 8260B - VOC unpreserved App (Preservative: un)
2. 7470A - 7470 Hg / 6020 metals App (Preservative: HNO3)
3. 9012A - 9012 CN (Preservative: NaOH)
4. 9034 Sulfide / unpreserved (Preservative: Zinc Acetate NaOH)
5. 8151A Herb (Preservative: un)
6. 8270C SVOC (Preservative: un)
7. 8081-8082 PST-PCB (Preservative: un)
8. 8260 VOC unpreserved Trip Blank (Preservative: un)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	C/G	AQUEOUS	SOLID	AIR	NONAQ.	8260B VOC	7470A/6020	9012A CN	9034 Sulfide	8151A Herb	8270C SVOC	8081-8082	8260 VOC Trip Blank	REMARKS
7-26-11	0925	ASH-MW08-072611	G	X				3	1	1	2	2	2	2	~~2~~ CBE	5 Day TAT Expedited
7-26-11	—	ASH-DUP-072611	G	X				3	1	1	2	2	2	2	~~2~~	↓
7-26-11	0857	ASH-RSI-07262011	G	X				3	1	1	2	2	2	2	~~2~~	↓
7-26-11	0920	ASH-MW13-072611	G	X				3	1	1	2	2	2	2	~~2~~	↓
7-26-11	1145	ASH-MW17-072611	G	X				3	1	1	2	2	2	2	~~2~~	↓
7-26-11	1251	ASH-MW23-072611	G	X				3	1	1	2	2	2	2	~~2~~	↓
7-26-11	1420	ASH-MW19-072611	G	X				3	1	1	2	2	2	2	~~2~~ CBE	↓
7-26-11	1503	ASH-MW21-072611	G	X				(3)	—	—	—	—	—	—	— CBE	Standard TAT
7-26-11	NA	Trip Blank	G	X				—	—	—	—	CBE	—	—	(2)	#06132011 date?
		CBE														Note: All VOC's + Trip in one Cooler

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	7-26-11	1730						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Eddie Harrell	07/27/11	0920	YES ◯ NO ◯		680-70758	2.6, 2.8, 5.4, 3.8, 5.6, 2.0, 4.2, 5.6

Custody Seal #'s (Coolers) 991113 → 991120 sequentially 8 coolers ← NOTE Cooler #s C.O.

TAL 8240-680 (1008)

Login Sample Receipt Checklist

Client: Ashland Inc.

Job Number: 680-70758-2

Login Number: 70758

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	8 coolers rec'd on ice
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Temp range 2.0 through 5.6 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Samples -2, -5 and -6 had broken Liter Amber containers associated with them.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Ashland Inc.
Project/Site: Hercules Hattiesburg APIX 7/26/11

TestAmerica Job ID: 680-70758-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kansas	NELAC	7	E-10322
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	Nevada	State Program	9	GA6
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Oklahoma	State Program	6	9984
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wisconsin	State Program	5	999819810
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.